

SBI PO Mains Previous Year Paper 2021

Directions (1-5): A Word arrangement machine when given an input line of words rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: format keeping # resemble cracker practice

Step I: hotoav meeripi dtaemev teueodne etaemet rtaeviee

Step II: hptpbv mffrjpp dtbfmfv tfvfpdnf ftbfmft rtbfvjff

Step III: htbv mrp \$ tvpdm bm rtbvj

Step IV: htbu mqp dtbmu @ am rtbuj

Step V: uteh % utemd nupgt le jteur

And step V is the last step of the arrangement. As per the rule followed in the above steps, find out in each of the following questions the appropriate missing/wrong term:

Q1. Which word represents “#” in the given input?

- (a) Capture
- (b) Product
- (c) Bracket
- (d) Ranging
- (e) Correct

Q2. Which word represents “\$” in the step III?

- (a) dtbfm
- (b) ctbfv
- (c) dttbm
- (d) dtbmv
- (e) None of these

Q3. Which among the following is the wrong word in step IV?

- (a) htbu
- (b) mqp
- (c) dtbmu
- (d) rtbuj
- (e) am

Q4. Which word represents “@” in the step IV?

- (a) tupdm
- (b) tupdn
- (c) supdn
- (d) tvpdm
- (e) tupcn

Q5. Which word represents “%” in the step V?

- (a) pqp
- (b) opq
- (c) mwp
- (d) prp
- (e) mqs

Directions (6-9): Read the given information and answer the following questions:

There are eight children A, B, C, D, L, M, N and O in a batch (but not necessarily in the same order) and they are of different age. They are born in four months from January to April (not in same year) i.e., two children in each month. Age of all children is between 7 to 19 years. No one has the same age.

Total age of C and A is a multiple of 5 and they are not born in the same month. Difference between the age of C and N is 5 less than the age of M. L is older than D and his age is not 16. M is not born after march. A is not born in the month having 31 days. D is neither born with A nor born in January. L is born in march but not with M and D. C is neither born with L nor born in January. Age of both the persons born in January is prime number. Neither C nor N is youngest and oldest children in batch. B's age is 5 more than A's age and they are not born in the same month. M's age is a multiple of 7 and 1 more than the age of the one who is born with N. Age difference between A and M is same as the age difference between L and D. C's age is a perfect cube number. A's age is not an even number.

Q6. Which among the following pair of persons born in March?

- (a) O, L
- (b) C, B
- (c) L, B
- (d) O, C
- (e) None of these

Q7. What is the age of D?

- (a) 13
- (b) 9
- (c) 11
- (d) 10
- (e) None of these



Q8. Which among the following combination is not correct?

- (a) 0- 13
- (b) April - A
- (c) March - B
- (d) L - 18
- (e) February - M

Q9. What is the total age of the persons born in April?

- (a) 20
- (b) 30
- (c) 21
- (d) 19
- (e) None of these

Directions (10-11): At least 85 forest fires are raging in Uttarakhand and have destroyed 165 acres of land in the past 24 hours to 48 hours, forcing the state to seek the Centre's intervention. Several sorties of the Indian Air Force were pressed into service to spray water over the fires even as it became clear that the state, with a forest cover of 71% of its area, still does not have an effective strategy to deal with forest fires.

Q10. What course of action State Government should take to deal with forest fire issue which may prevent it in future?

- (a) All the trees should be cut down and it should be made plain areas to intercept fire issues in future.
- (b) State Government should seek the help of van panchayats and local people in checking forest fires and set up fire control rooms and fire stations at tehsil and block levels.
- (c) The only effective way to deal with forest fires is getting locals involved to ensure that such fires aren't man-made and when fires start, enough people are mobilised to fight them.
- (d) Both (b) and (c)
- (e) Both (a) and (c)

Q11. Which of the following can be assumed from the above statement?

- (I) CM of Uttarakhand will resign as a failure to prevent the forest fire issues.
 - (II) Forest fires in the state is a long-term issue which are from years.
 - (III) Air force personnel got training to handle this type of situation.
 - (IV) Other states which covers major forest areas will be alert and take preventive measures.
 - (V) All the animals in Uttarakhand Forest will be shifted to another state forest area.
- (a) Only II and IV
 - (b) Only I, III and V
 - (c) Only I and V
 - (d) Only II, IV and V
 - (e) Only II, III and IV

Directions (12-13): Read the information given below and answer the related questions:

In a certain code language

'Union vote count structure' is written as 'plm hbu bnp rdc'

'Federal unit structure' is written as 'hbu scr tby'

'Federal states count' is written as 'scr bnp qaz'

Q12. What will be the code for 'union states unit' as per the given code language?

- (a) bnp scr qaz
- (b) rdc qaz thy
- (c) thy plm hbu
- (d) plm qaz thy
- (e) Can't be determined

Q13. The codes 'hbu bnp scr' stand for which among the following words?

- (a) Federal unit vote
- (b) Union states count
- (c) Count structure vote
- (d) Structure count federal
- (e) None of these

Directions (14-17): Read the given information carefully and answer the questions given below:

Seven students give exams of different subjects on different days of a week starting from Monday. They got different ranks from I to VII in their exams. B gives the exams of physics but not on Tuesday and Friday. Three days are there between Math and Physics exam. English exam is given after math exam but not on Saturday and Sunday. The one who gives Hindi exam got rank I. One person gives exam between English and Hindi. More than three persons give exam before Hindi exam. Computer exam is given just after V who does not get an even rank. H neither gives exam of English and Math nor gets rank I and IV. T gives the exam of Bio but four days after the one who gets rank VII. G neither gives exam on Thursday nor gets rank I and II. K gets rank III but does not give the exam of history. C gives the exam just before the one who gets an odd rank and just after the one who gets rank II. T gets neither IV rank nor VI rank.

Q14. Which among the following combination is correct?

- (a) Monday - III
- (b) Saturday - Hindi
- (c) K - Math
- (d) Physics - II
- (e) T - V

Q15. C gives the exam on which among the following days?

- (a) Monday
- (b) Thursday
- (c) Tuesday
- (d) Saturday
- (e) None of these

Q16. How many persons give exams between T and H?

- (a) Four
- (b) Three
- (c) Two
- (d) One
- (e) None of these

Q17. What is the subject and rank of V?

- (a) Math - VII
- (b) History- VII
- (c) Math - III
- (d) English - VII
- (e) None of these

Q18. Which of the following arguments is strong in respect of the given statement?

Statement: An apple a day, keeps a doctor away-Instruction given by Health ministry of India.

Arguments:

- I. Every individual should consume an apple daily to keep himself fit physically and mentally.
- II. Real juice of apple flavor should be banned as it is contaminated with harmful chemicals.
- III. To consume an apple daily by every individual is not possible as it is costly in summer season.
- IV. An individual can be healthy by taking green vegetables and alternative cheap fruits.

- (a) I and III
- (b) I, II and III
- (c) I, III and IV
- (d) All I, II, III and IV
- (e) None of these

Directions (19-20): In each of the questions given below, two conclusions are given followed by five set of statements. You have to take the given conclusions to be true even if they seem to be at variance with commonly known facts and then decide that the conclusions logically follow for which of the given statements disregarding commonly known facts.

Q19. Conclusions:

- I. All letter can be down is not a possibility.
- II. No mark being button is a possibility.

Statements:

- (a) All down is mark. All mark is button. Only a few letter is arrow. No arrow is down.
- (b) Some letter is button. Only a few button is down. All arrow is down. No mark is arrow.
- (c) Only a few arrow are button. No down is arrow. Only mark is letter. Some arrow is mark.
- (d) All arrow is down. No letter is arrow. All button is letter. Some mark is not letter.
- (e) No letter is arrow. All down is button. All button is arrow. No mark is button.

Q20. Conclusions:

- I. Some ball being not box is not a possibility.
- II. No box being bottle is a possibility.

Statements:

- (a) Only a few ball is colour. Only a few colour is water. No water is box. All ball are bottle.
- (b) Some water is ball. All ball is bottle. No colour is ball. Some box is bottle.
- (c) No colour is box. Only a few water is box. Some ball is bottle. No bottle is box.
- (d) Some water is not bottle. Only ball is colour. All bottle is ball. All box is water.
- (e) Only water is bottle. Only a few ball is water. Some box is water. Some water is not colour.

Directions (21-25): Read the given information carefully and answer the related questions.

Ten persons A to J (according to alphabet series) of three generations live in a family and they sit in a linear row for a game but not necessarily in the same order. Some of them face north while some face south.

Three persons sit between A's husband and G's husband and both face the same direction. H is the only son of B and sits adjacent to G's husband. Immediate neighbours of H do not face north. Mother of E sits immediate right of H who sits sixth to the right of C. One person sits between C and G who is the sibling of H and J. D's wife is the only neighbour of G. E sits second to the left of J' brother and faces south. Two persons sit between B and A. F and A sits immediate left to each other. C is son of F. Father of E sits immediate right of B. G and D face the same direction but opposite to J's mother-in-law. E and G have same gender.

Q21. How many persons face north?

- (a) Four
- (b) Three
- (c) Five
- (d) Six
- (e) None of these

Q22. Who among the following sits third to the right of C's father-in-law?

- (a) B
- (b) C
- (c) I
- (d) F
- (e) None of these

Q23. How many persons sit between I and his wife?

- (a) Two
- (b) Four
- (c) Five
- (d) Seven
- (e) None of these

Q24. Who among the following is brother-in-law of C?

- (a) F
- (b) D
- (c) H
- (d) Both H and I
- (e) I

Q25. What is the relation of E with respect to the one who sits just left of A?

- (a) Wife
- (b) Sister
- (c) Granddaughter
- (d) Daughter-in-law
- (e) None of these

Directions (26-27): According to the study, Air pollution accounts for one out of every eight deaths in India. India has one of the highest annual average ambient particulate matter PM2.5 exposure levels in the world. The effects of PM2.5 are more dangerous than any other particulate matter, as these particles with a size equal to, or smaller than 2.5mm, can easily get into the respiratory tract and settle in the lungs, and some may even get into our bloodstream.

Q26. Which of the following abrogates the fact found in study?

- (I) At least 11% of premature deaths in people less than 70 years of age is due to air pollution.
 - (II) The life expectancy in India will be increased by 1.7 years if pollution levels will get lower than the minimum levels associated with health loss.
 - (III) There are total of 7 cities of India in the list of top 20 world safest cities to breathe.
- (a) Only II
 - (b) Only I and III
 - (c) Only III
 - (d) All I, II & III
 - (e) None of these

Q27. Which of the followings are not in line as per the above statement?

- (I) The rising population will further increase the vehicle growth and so emissions will increase to a larger extent.
 - (II) The switch to public transport is needed to resolve the situation of air pollution.
 - (III) There is an emergent need for people to adopt a sustainable lifestyle that relies on lesser energy consumption technologies and equipment.
- (a) Only III
 - (b) Only II and III
 - (c) Only I and III
 - (d) Only I and II
 - (e) None of these

Directions (28-29): Study the following information carefully and answer the questions given below.

The first 15 consecutive odd numbers are written from top to bottom such that the letters of the word "MEAT" are arranged in alphabetical order corresponding to the numbers which are consecutive multiple of 3 (multiple starts from 3).

Three letters are placed between J and T. The odd number placed above J is same as the odd number placed below K. K is placed corresponding to the prime number. I is placed corresponding to the number which is multiple of 5. No two vowels are placed at adjacent positions. L is placed below I. L is placed corresponding to the prime number.

Q28. How many four-letter meaningful words can be formed with the letters placed corresponding to the given numbers i.e., 9, 15, 25 and 29 (each letter used once only)?

- (a) One
- (b) Two
- (c) Three
- (d) None
- (e) More than three

Q29. How many letters according to the English alphabetical series are placed between the letters placed corresponding to numbers 13 and 21?

- (a) One
- (b) Five
- (c) Three
- (d) Four
- (e) More than five

Directions (30-33): In the following questions, the symbols %, @, &, \$ and # are used with the following meaning as illustrated below-

'A\$B' means 'A is not greater than B'

'A%B' means 'A is not smaller than B'

'A@B' means 'A is neither smaller nor greater than B'

'A&B' means 'A is neither equal to nor smaller than B'

'A#B' means 'A is neither equal to nor greater than B'

Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II and III given below them is/are definitely true and give your answer accordingly.

Q30. Statements:

P&Q#U\$W; Q%S&T; W#Y@Z

Conclusions:

I.Q#Z

II.S&W

III.P%Y

- (a) Only I is true
- (b) Only II is true
- (c) Both I and II are true
- (d) Both III and I are true
- (e) All are true

Q31. Statements:

C#D\$F&E; F%I&J\$K; J#M@N

Conclusions:

I.I\$D

II. K&N

III.K\$M

- (a) Only I is true
- (b) Only II is true
- (c) Both I and II are true
- (d) Either II or III is true
- (e) Either I or II is true

Q32. Statements:

V&Y%K; U@V\$W#X; R%J@W

Conclusions:

I. V\$R

II. K#U

III.R&U

- (a) Only I is true
- (b) Only II is true
- (c) Both I and II are true
- (d) Only I and either II or III are true
- (e) Both I and III are true

Q33. Statements:

H&I%G; P@N#L\$I; N%Q&R@T

Conclusions:

I. P\$G

II. R#L

III.I&P

- (a) Only I is true
- (b) Only II is true
- (c) Both I and II are true
- (d) Only III is true
- (e) Both II and III are true

Directions (34-35): Study the following information carefully and answer the questions given below.

16 letters from K to Z (according to alphabet series) are placed in the form of a 4*4 matrix.

Note- Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column. Ex- B is not placed in the column of A and row of A.

R is placed to the north of M but not just north. Only X is placed to the west of M. One letter is placed between R and T either in the same row or in the same column. S is placed neither in the row of X nor in the column of X. L is placed just south-west of S and north of V. Q is placed in the south-east of Y and Z. Y and Z are placed in adjacent columns. O is placed just north-west of W. P is not placed in the same row of R and S. Z is not placed in the row of U which is placed to the west of N.

Q34. Name the letters which are placed to the south of K?

- (a) P, X
- (b) Z, P, X
- (c) U, P, X
- (d) S, W, Q
- (e) None of these

Q35. Which among the following letter is placed to the north-east of O?

- (a) T
- (b) R
- (c) Y
- (d) N
- (e) None of these

Q36. Study the following information in which a statement is followed by five conclusions, read carefully and answer the question below-

Statement: Other than being an essential source of water for Indian agriculture, the monsoon plays a critical role in flushing out pollutants over Asia. However, recently increased pollution — particularly from coal burning — could potentially weaken this ability of the monsoon.

Which of the following can be deduced from the given statement?

- (a) The unusually high concentration of particulate matter in the last few days in India clearly shows that air pollution is emerging as a big problem.
- (b) As the climate gets warmer and frequency of rains reduces, such spurts in coarse particles making breathing difficult will become a new normal and the government is not waking up to the alarm.
- (c) Both the periodicity and duration of dry spells in the country were rising as total rainfall events in a year had fallen even though the average rainfall in a year has not changed much, a direct consequence of climate change.
- (d) The annual average rainfall has remained the same because the frequency of heavy downpours increased in the past two decades.
- (e) The air quality in the region deteriorated because of dust storms in western India, particularly Rajasthan.

Directions (37-38): Study the following information carefully and answer the questions given below.

A@B(13m) → A is 18m north of B

A#B(17m) → A is 22m south of B

A\$B(11m) → A is 16m east of B

A%B(21m) → A is 26m west of B

Note: A#\$B means A is southeast of B

Condition 1: Z@I(15); O\$M(5); R#O(17); M#I(12); H%R(17)

Condition 2: D%I(25); E\$G(13); G#D(12); E@H(17); J#F(5); J\$K(19); F%H(5)

Q37. In which direction is point H with respect to point Z?

- (a) # \$
- (b) @ %
- (c) @ \$
- (d) # %
- (e) None of these

Q38. What is the total distance between point R and point D (from either of the side)?

- (a) 80m
- (b) 79m
- (c) 85m
- (d) 91m
- (e) 82m

Directions (39-43): Study the following information carefully and answer the questions given below.

Six married couples sit at concentric circular table such that six persons sit at inner circular table and the remaining six sit at outer circular table. Persons sit at inner table face outside and the persons sit at outer table face inside. Couples neither sit adjacent to each other nor sit facing each other.

Note: Only the persons sit at the opposite tables face each other.

O's husband sits second to the right of N's husband. P sits facing D's wife. P is an immediate neighbor of O's husband. D sits second to the right of P and faces U's wife. N is wife of B and sits second to the right of S. S faces outside. S is neither O's husband nor D's wife. O faces neither B nor P. O sits adjacent to S. T is married to U. T's husband sits facing S. R and M sit at the same table. Neither R nor M sits adjacent to N. K is spouse of R and she sits immediate left of M's wife. H is one of the persons. S is not husband of P.

Q39. Who among the following sits third to the right of H's husband?

- (a) U's wife
- (b) The one who sits facing D
- (c) N's husband
- (d) P
- (e) None of these

Q40. How many persons sit between O and T when counted from the left of T?

- (a) One
- (b) Two
- (c) Three
- (d) None
- (e) Can't be determined

Q41. Which among the following statement(s) is/are true?

- (a) D sits faces B
- (b) O sits at the outer table
- (c) B sits adjacent to M's wife
- (d) P and S are married couple
- (e) All are true

Q42. Four of the following five are alike in a certain way and thus form a group. Which among the following does not belong to the group?

- (a) P-S
- (b) N-B
- (c) T-U
- (d) K-R
- (e) H-O

Q43. Who among the following sits at the outer circular table?

- (a) The one who sits adjacent to O
- (b) The one who sits second to the right of D
- (c) The one who is P's spouse
- (d) Both (b) and (c)
- (e) None of these

Q44. Study the following information in which a statement is followed by five conclusions, read carefully and answer the question below-

Other than being an essential source of water for Indian agriculture, the monsoon plays a critical role in flushing out pollutants over Asia. However, recently increased pollution — particularly from coal burning — could potentially weaken this ability of the monsoon.

Which of the following can be deduced from the given statement?

- (a) The unusually high concentration of particulate matter in the last few days in India clearly shows that air pollution is emerging as a big problem.
- (b) As the climate gets warmer and frequency of rains reduces, such spurts in coarse particles making breathing difficult will become a new normal and the government is not waking up to the alarm.
- (c) Both the periodicity and duration of dry spells in the country were rising as total rainfall events in a year had fallen even though the average rainfall in a year has not changed much, a direct consequence of climate change.
- (d) The annual average rainfall has remained the same because the frequency of heavy downpours increased in the past two decades.
- (e) The air quality in the region deteriorated because of dust storms in western India, particularly Rajasthan.



Q45. In the questions given below, a statement is given, followed by two conclusions. You have to read the statement and decide which of the given conclusions can be drawn from the given statement.

Statement:

More houses in city X have lifts in them as compared to the houses in city Y.

I. People of city X are too lazy.

II. People of city X are richer than the people of city Y.

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Either I or II
- (e) None of these

Directions (46-48): Data given below about two trains A and B. Read the data carefully and answer the questions.

Train A: Train A starts from station X and after travelling 60 km train reduced its speed by 25% and train reached station Y at 10 A.M.

Train B: Train B starts from station X at same time when train A starts and after travelling 90 km it reduced its speed by 25% and train B reached station Y at 9: 45 A.M.

If both trains travelled with their original speed, then they will reach station Y at 8.30 A.M.

Q46. Find the distance between station X and Y?

- (a) 215 km
- (b) 240 km
- (c) 250 km
- (d) 210 km
- (e) 235 km

Q47. If speed of train C is 200% more than original speed of train A, then find time taken by train C to cover distance between station X to Y?

- (a) 2 hour
- (b) 2.5 hour
- (c) 5 hour
- (d) 1 hour
- (e) 1.5 hour

Q48. Find the sum of time taken by train A and train B to cover distance between station X & Y, if both trains cover total distance at original speed.

- (a) 12.5 hour
- (b) 11 hour
- (c) 10 hour
- (d) 12 hour
- (e) 9 hour

Directions (49-51): Each of the question is followed by two statements I and II. You have to determine whether the data given in statements are sufficient for answering the questions. You should use the data and your knowledge of Mathematics to choose between possible answers.

Q49. In how many days, ten men can complete a work?

I. Four men and six women can complete the same work in 20 days.

II. Number of days taken by two men to complete a work is same as number of days taken by three women for same work.

(a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions

Q50. Find the area of rectangle ABCD?

I. Perimeter of rectangle ABCD is 4.5 times of its breadth.

II. Difference between squares of adjacent pair of sides of rectangle ABCD is 5.4 times of its breadth.

(a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions

Q51. Find the cost price of watch?

I. If shopkeeper markup the watch at Rs.360 above the cost price and allows a discount of 10% on mark price, then he gets a profit of 8%.

II. If watch is sold on profit of 12%, then the difference between selling price and cost price of watch is Rs.216.

(a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions

Directions (52-54): Each equation below contains a statement followed by Quantity I and Quantity II. You have to study the information along with question and compare the value derived from Quantity I and Quantity II, give the answer.

Q52. If $p + q + r = 15$ and $p \neq q \neq r$.

Quantity I: If p, q & r are positive integers, then find the maximum value of pqr .

Quantity II: If p, q and $r \geq -10$, then maximum value of pqr and choose the appropriate option

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or no relation

Q53.

Given, $\frac{4x-3a}{x} = \frac{2}{3}$

Quantity I: value of x .

Quantity II: value of a .

and choose the appropriate option

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or no relation

Q54. Quantity I: A boat running in downstream covers a distance of 20 km in four hours, while for covering the same distance upstream it takes five hours. Find the speed (in km/hr) of boat in still water.

Quantity II: A boat can cover a distance of 48 km in three hours in still water. If speed of stream is 4 km/hr, then find the difference between time taken by boat to cover the same distance in upstream and that in still water.

and choose the appropriate option

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I \geq Quantity II
- (d) Quantity I \leq Quantity II
- (e) Quantity I = Quantity II or no relation

Directions (55-59): There are two companies X and Y. Both companies consisting three groups i.e., HR, Marketing and Finance. Read the information given below and answer the questions.

Company X: There are 64 members. If two new members are added in each group, then the ratio of total (existing + new) members in HR & Marketing group to that in Finance group becomes 4 : 3.

Company Y: Total number of existing members in HR group is six and no new members is added in this particular group. Total number of existing members in Finance group is 10.

Also given,

(i) Total number of (new + existing) members in Finance group of company Y is half of the number of total (new + existing) members in Marketing group of company X.

(ii) New members added in Finance group in company Y is half of the number of new members added in Marketing group of same company.

(iii) Total number of members (new + existing) in Marketing group in company X is six more than that in company Y.

(iv) Total number of members (existing + new) in HR group in company X and Finance group in company Y is equal to 28.

Q55. Find total number of existing members in company Y?

- (a) 36
- (b) 24
- (c) 70
- (d) 64
- (e) 30

Q56. Find the ratio of total (new + existing) members of company X and company Y?

- (a) 35 : 19
- (b) 31 : 18
- (c) 35 : 18
- (d) 36 : 19
- (e) 35 : 17

Q57. If five members from total (new + existing) members of HR group of company X are transferred to company Y, then find total (new + existing) number of members in company Y?

- (a) 44
- (b) 41
- (c) 47
- (d) 49
- (e) 42

Q58. Total number of existing members in HR and Marketing in both companies are what percent (approx.) more than total (new + existing) members in company Y?

- (a) 57%
- (b) 61%
- (c) 71%
- (d) 51%
- (e) 49%

Q59. If total (new + existing) members in company Z in all three (HR, Marketing and Finance) groups are seven more than average of total (new + existing) members in X and Y and ratio of total (new + existing) members in HR, Marketing and Finance of company Z is 5 : 6 : 4 respectively, then find the difference between total (new + existing) members in Marketing and Finance?

- (a) 10
- (b) 12
- (c) 6
- (d) 4
- (e) 8

Directions (60-61): Read the both equations I & II and answer the following questions.

I. $2x^2 + 7x + k = 0$

II. $(ay + b)^2 = 0$

Here, larger root of equation I is one of the roots of equation II and smallest root of equation I is -2 .

Q60.

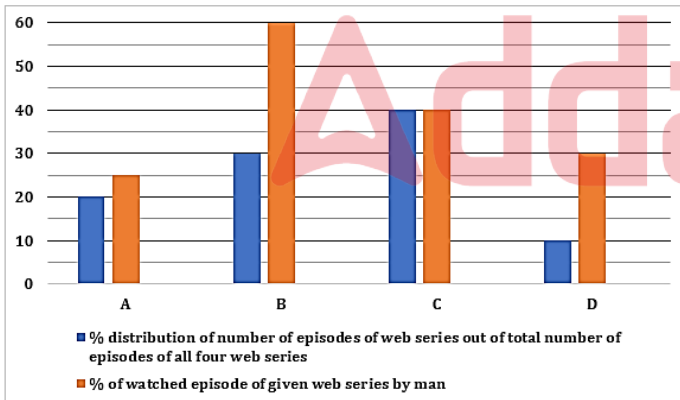
If $p = -2 \times \sqrt{k + 3}$, then find p is equal to,

- (a) 6
- (b) 7
- (c) -7
- (d) -6
- (e) 8

Q61. Find the value of 'b'?

- (a) 3
- (b) 2
- (c) 4
- (d) 5
- (e) cannot be determined

Directions (62-67): A man was watching four web series on a binge. Each web series has some episodes (not equal necessarily). Given bar graph shows percentage distribution of number of episodes of each web series out of total number of episodes of all four-web series and percentage of watched episodes of given series by man. Time length of each episode of these web series is 20 minutes. Read the data carefully and answer the questions.



Note: (i) Total number of episodes of all four-web series is N.
 (ii) Average of total watched content of web series A and D by the man is $(N - 192)$.
 (iii) Daily watch time for the man is 35 minutes, 25 minutes, 18 minutes and 21 minutes for web series A, B, C & D respectively.
 (iv) Everyday, the man watches each web series in numerical order. For example, man watches 1st episode of web series A, then he starts 2nd episode of web series A on same day only after watching 1st episodes of each web series of completing his quota of watch time of other web series, whichever is earlier. Same order applies for other web series as well.

(iv) Everyday, the man watches each web series in numerical order. For example, man starts watching 1st episode of web series A, after watching 20 min, episode 1 complete, then he watches only 15 min of 2nd episode. Now he starts to watch web series B and so on. Next day he starts watching web series A and watch 5 min of 2nd episode and so on.

Q62. In how many days, man completes his quota of watching web series A?

- (a) 4 days
- (b) 8 days
- (c) 5 days
- (d) 7 days
- (e) 6 days

Q63. Find the difference between number of days taken by man for watching 25 episodes of web series B and 20 episodes of web series C?

- (a) 2 days
- (b) 4 days
- (c) 6 days
- (d) 3 days
- (e) 7 days

Q64. Which episodes of web series D was watched by man on day three?

- (a) Episode (II) & (III)
- (b) Episode (IV) & (V)
- (c) Episode (I) & (II)
- (d) Episode (VI) & (VII)
- (e) Episode (III) & (IV)

Q65. Find the number of complete episodes watched by man in first two days?

- (a) 8
- (b) 6
- (c) 7
- (d) 10
- (e) 12

Q66. Find the average number of complete episodes of web series B, C and D watched by man?

- (a) 21.44
- (b) 24.66
- (c) 28.66
- (d) 20.66
- (e) 29.22

Q67. Find the minimum possible number of complete episodes of any web series watched by man after four days?

- (a) 2
- (b) 4
- (c) None of these
- (d) 3
- (e) 6

Directions (68-70): Table given below about work done by three people (A, B & C). Read the table carefully and answer the questions.

People	Actual Work Done (In Units)	Maximum Time Taken (In Hours)
A	50	10
B	60	12
C	-----	15

Q68. A worked for one hour then he took rest for next 15 minutes. In similar pattern, he completed his entire duration of work. Find the net efficiency (In unit/hour) of A?

- (a) 22/5
- (b) 25/4
- (c) 29/7
- (d) 21/4
- (e) 15/4

Q69. If B works with 60% more than his minimum efficiency, then find the total time of rest of B in his entire duration of work?

- (a) 4.2 hour
- (b) 4.4 hour
- (c) 4.8 hour
- (d) 4.5 hour
- (e) 4.7 hour

Q70. If C works for one hour and then rests for next 15 minutes. In similar manner, he completes his entire duration of work. If efficiency of C is 20% more than the average of minimum efficiency of A and B, then find total work done by C (in units)?

- (a) 72 units
- (b) 74 units
- (c) 75 units
- (d) 79 units
- (e) 78 units



Directions (71-72): Calculate the value of (a) and (b) and answer the questions given below:

(a), (b), 102, 104, 107, 113, 128, 173

Q71.

From (b) a new series started. The second term of series is $(b + 2^2)$ and the third term of series is $(b + 3^2)$, fourth term of series is $(b + 4^2)$. Find the 5th term of series.

- (a) $98 + 5^5$
- (b) $99 + 5^5$
- (c) $100 + 5^5$
- (d) $101 + 5^5$
- (e) None of these

Q72. If double the value of (a) is X, then find the difference between X and 4th term of series given.

- (a) 82
- (b) 84
- (c) 86
- (d) 88
- (e) 80

Directions (73-74): Read the table carefully and answer the questions carefully.

Schemes	Time (In years)	Rate of interest
A	30	$X^2 - 3X - 10 = 0$
B	$Y^2 - Y - 6 = 0$	20%
C	40	-----

Note: (i) If time > rate of interest, then simple interest should be considered in any scheme.

(ii) If time < rate of interest, then compound interest should be considered in any scheme.

(iii) Some values are missing; you have to calculate according to the questions.

(iv) P and Q are two friends and they invested their sum in scheme A and scheme B respectively. Q invested Rs.15000 and sum invested and profit earned by A is same.

(v) P also invested some money in scheme C on simple interest and interest earned by her is same as profit earned by scheme A.

(vi) Take positive value of equations for time and rate of interest.

(vii) Rate in scheme C is greater than rate of interest in scheme A.

Q73. The ratio of investment of P and Q in scheme A and B is 2: 3 respectively. If P invested her sum for whole duration in scheme A, then the rate at which P invested in scheme A is what percent of actual simple interest percentage of scheme?

- (a) $\frac{20}{9}\%$
- (b) $\frac{20}{7}\%$
- (c) $\frac{22}{9}\%$
- (d) $\frac{25}{8}\%$
- (e) $\frac{24}{9}\%$

Q74. Rate at which P invested in scheme C follows the equation $z^2 - 10z + 24 = 0$ and the interest earned by her in scheme A is 160% of amount invested by Q in scheme B. Find the amount received by P from scheme C?

- (a) Rs. 32000
- (b) Rs. 34000
- (c) Rs. 32500
- (d) Rs. 35000
- (e) Rs. 31200

Q75. X was born three years after the marriage of Y and Z, while Y is three years younger than Z. At present X is 20 years younger than Y and three years hence, the ratio of the age of Z to that of Y will be 11 : 10. Find how many years ago Y and Z married from present?

- (a) 10 years
- (b) 7 years
- (c) 13 years
- (d) 8 years
- (e) 6 years

Q76. A vessel contains 1000 liters of acid A and 500 liters of acid B. x liters of mixture is taken out from the vessel and y liter of acid B is added to the mixture. After that z liters of mixture are again taken out of the mixture. Find what should be the possible values of the x, y and z respectively so that the quantity of acid A and acid B in the final mixture becomes equal?

- (a) 300,400,200
- (b) 100,500,300
- (c) 200,500,100
- (d) 100,200,700
- (e) 500,400,300

Q77. A man daily works for T hours and earns Rs P per hour. For each hour he works in excess of T hours, he is paid two times of his original rate. One day he works for N hours and the amount he is paid on that day is Rs 1200 more than his daily amount. If P is either 100 or 150, then what will be possible values of N and T.

- (i) 12,8
- (ii) 10,4
- (iii) 9,5
- (iv) 13,7
- (v) 17,13
- (a) Only (i) and (iii)
- (b) Only (ii) and (iv)
- (c) Only (ii) and (v)
- (d) Only (i),(iii) and (v)
- (e) All of the above

Q78. Rs. x is invested in a scheme 'A' at CI of 'r'% per annum compounded annually for 't' years and same amount is invested in another scheme B at CI of 'p'% per annum compounded half-yearly for 't' years. If the interest earned from both schemes is equal, then which of the following can be the value of 'r' and 'p' (Given both 'r' and 'p' are integers?)

- (i) 20,24
- (ii) 24,30
- (iii) 44,40
- (iv) 21,20
- (v) 12,16
- (a) Only (ii) and (iv)
- (b) Only (i),(ii) and (iv)
- (c) Only (ii) and (iii)
- (d) Only (iii) and (iv)
- (e) Only (i),(ii) and (v)

Q79. There are two offices P and Q. In office P, there are 5 males and 'n' females and in office Q, there are 'n' males and 8 females. If one employee is chosen at random from any office, then the probability that it is a female is $\frac{5}{9}$. Which of the following can be the value of 'n'?

- I. 10
- II. 4
- III. 3
- IV. 5
- V. 6
- (a) Only I
- (b) Only V
- (c) Both I and IV
- (d) Both II and III
- (e) Both I and II

Q80. One liter of a% of milk is mixed with three liters of b% of milk to give 60% of milk and $a > b$. Find how many integer values 'a' can take (a is multiple of 9).

- (a) 7
- (b) 5
- (c) 6
- (d) 3
- (e) 9

Directions (81-87): Read the following passage and answer the questions given below. Some words are highlighted to help you answer some of the questions.

New research by Gates Foundation and International Development Research Center, published on International Women's Day, has revealed the **magnitude** of the unpaid care burden that women across the world bear and which has only gotten worse since the start of the Covid-19 pandemic. It has been found that women across the world are spending 30 hours per week exclusively on childcare - almost a second full-time job. In India, both women and men reported an increase in unpaid work at home and a decrease in time spent on paid work, but that extra time translated to more rest for men and more time spent on chores for women. This research report came after two other childcare reports launched earlier in March, both by the World Bank, on the importance of investing in childcare to build human capital, and an update on how laws and regulations _____ **(I)** _____ women's economic inclusion, including childcare.

This new research was produced in partnership with the International Development Research Centre (IDRC), the Growth and Economic Opportunities for Women (GrOW) East Africa initiative, and the Bill & Melinda Gates Foundation. It had a specific focus on supporting women in low- and middle-income countries. At the beginning of the research, we challenged ourselves to think if the childcare issue is a high-income country problem or a global problem. One of the hypotheses I had in my mind was that high-income countries tend to have nuclear families and may find childcare more pronounced as an issue. But what the report shows is that this is a universal problem. Describing the fallout from the closure of childcare centers in low-income settlements, "this has three effects: first, the women who were sending those children to the childcare centers have difficulty in working; second, the women from childcare centers have lost their jobs; and third, childcare burden shifts to adolescent girls. The last effect is particularly worrying as this will have long-term effects for this generation."

The shift of the burden to adolescent girls is worrying as they already shoulder a disproportionate amount of care burden compared to their male counterparts, in many low- and middle-income countries. I feel that a lot of the global conversations on childcare have been focused on high-income countries, but this is equally a priority for low- and middle-income countries. "It is surprising how little attention childcare has received over the years. The pandemic has laid bare the fissures and fractures in our society, which has been organized on the backs of women and women's unpaid work. With everybody around the world now thinking about how to **stimulate** the economy, women need to be central to economic recovery plans and progress.

Q81. According to new research by Gates Foundation, what has been the daily routine of men and women in India?

- (a) In India, women have reported more unpaid work at home.
- (b) In India, men spend more time doing housework to assist women.
- (c) In India, women reported spending less time on a paid job.
- (d) Only (a) and (c)
- (e) All of these

Q82. Why did the author believe that childcare would be more of a problem in high-income countries?

- (a) Because of the consequences of the closing of low-income settlement childcare services.
- (b) Because he felt that high-income countries may have childcare issues due to nuclear families.
- (c) Because high-income countries do not devote a significant amount of resources to it.
- (d) Only (b) and (c)
- (e) Only (a) and (c)

Q83. Which of the following statements is/are correct based on the information provided in the given passage?

- (i) The burden of childcare shifting to adolescent girls is concerning.
 - (ii) Over the years, child care has received relatively little attention.
 - (iii) Adolescent girls bear a hugely disproportionate burden of care.
- (a) Only (i) and (iii)
 - (b) Only (ii)
 - (c) Only (i) and (ii)
 - (d) Only (iii)
 - (e) All of these

Q84. Choose the most appropriate synonym of the word 'MAGNITUDE', as highlighted in the given passage.

- (a) enormity
- (b) dimension
- (c) expanse
- (d) vastness
- (e) All of these

Q85. Choose the most appropriate word from the following options to fill in the blank (I), as highlighted in the given passage.

- (a) conserve
- (b) detriment
- (c) influence
- (d) pragmatic
- (e) dissenting

Q86. Why does the author conclude that shifting the responsibility of childcare to adolescent girls will have a negative impact?

- (a) Because adolescent girls have difficulty in sending children to childcare facilities.
- (b) Because the women in childcare centers have lost their jobs and are in a difficult spot.
- (c) Because adolescent girls already bear a greater share of the caregiving burden than boys.
- (d) Only (a) and (b)
- (e) None of these

Q87. Choose the most appropriate antonym of the word 'STIMULATE', as highlighted in the given passage.

- (a) animate
- (b) sedative
- (c) bracing
- (d) trigger
- (e) provoke

Directions (88-92): Read the following passage and answer the questions given below. Some words are highlighted to help you answer some of the questions.

The nitrogen requirements of cotton are well understood and have been extensively studied since 1887, with practical guides, decision support systems, models and recent reviews providing information on the importance of providing cotton crops with a **sufficient** supply of nutrients and improving nitrogen use efficiency. Given that the financial return to the grower depends on both the cotton quantity and quality and the growing importance of the latter, this review focuses specifically on information and knowledge about the effect of nitrogen application level on fiber quality. Although the United Nations has indicated that there will be a dramatic slowdown in population growth, it is still estimated that the world population will increase. However, despite this slowdown in population growth, the demand for food, fiber and fuel continues to grow.

As the global agricultural and arable land has remained fairly stable, any increase in such demands needs to be met by either increasing the areas of land that may not be **suitable** for crop production or else by increasing yield, which can be achieved in a number of ways, including multiple cropping and reduced fallow periods, improved tillage and soil fertility. Due to the fact that most soils do not provide sufficient nitrogen for the economical production of fiber and seeds, the additional supplementation of nitrogen, phosphorus, potassium fertilizers is the key input in maintaining productive, profitable, and sustainable cropping industries. It has been stated that, together with water, nitrogen is the single most important growth-limiting factor, excluding weather, for crops. A study conducted in 1990 showed that **pulling the plug** on nitrogen fertilizer usage would result in a slump in the yield of cotton by 37%.

Nevertheless, as only a fraction of the nitrogen applied is taken up by the crop, there is a need to improve fertilizer use efficiency as excessive levels can result in substantial losses as well as potential environmental, ecological and health risks. In terms of fiber, despite the fact that cotton's share of the global fiber market is decreasing, cotton still remains one of the most important textile fibers in the world, with its production and consumption **picking up the threads**. Cotton is a global commodity that is either grown or used in virtually every country in the world and is traded in the form of fiber, yarn, fabric, or finished goods. Cotton is sought after by consumers as it is a natural fiber with excellent comfort against the skin, moisture absorption, the soft hand feels and versatility.

Q88. What methods does the author recommend for preserving cropping industries as productive, profitable, and long-term?

- (a) By retaining status as a relatively steady worldwide agricultural and farming land.
- (b) By increased fortification of nitrogen, phosphorus, and potassium supplements.
- (c) By expansion of land areas to accommodate any increase in market requirements.
- (d) Both (a) and (b)
- (e) Only (a) and (c)

Q89. Choose the most appropriate antonym of the word 'SUFFICIENT', as highlighted in the given passage.

- (a) generous
- (b) exiguous
- (c) bountiful
- (d) copious
- (e) plenteous

Q90. Choose the most appropriate meaning of the phrase "pulling the plug", as highlighted in the given passage.

- (a) resume
- (b) intermit
- (c) overhaul
- (d) refurbish
- (e) reiterate

Q91. Choose the most appropriate meaning of the phrase "picking up the threads", as highlighted in the given passage.

- (a) to arrange for something to take place at a later time.
- (b) to change one's plans as a result of criticism or difficulty.
- (c) to begin speaking, especially in radio communication.
- (d) to resume something that has been interrupted.
- (e) to continue moving forward in a purposeful way.

Q92. Choose the most appropriate synonym of the word 'SUITABLE', as highlighted in the given passage.

- (a) indelicate
- (b) outrageous
- (c) scandalous
- (d) befitting
- (e) depraved

Directions (93-97): In each of the following questions, a sentence with an error is given. The sentence is then followed by two statements (I) & (II), each of which is divided into four parts. One of these parts may or may not contain a similar error to the one mentioned in the sentence. You are required to select the part that contains the same type of error as the sentence itself. If none of the given parts contains an identical error, select option (E) as your answer choice.

Q93. Effective organization management refers to the art of getting employees together on a common platform and extracting the best out of it.

(I) As a student of management, (A)/ there are several basic skill (B)/ that you must possess in (C)/ order to work effectively. (D)

(II) Management by Objectives define roles (A)/ and responsibilities of the employees (B)/ and helps it chalk out their (C)/ future course of action to the organization. (D)

- (a) I - D
- (b) II - C
- (c) II - A
- (d) I - B
- (e) None of these

Q94. The superiors must decide on the future course of action as per the existence culture and conditions at the workplace.

(I) A set-up where individuals from diverse (A)/ backgrounds and different educational qualifications (B)/ come together to work toward (C)/ a common goal is called an organization. (D)

(II) Employees contribution in their own way to (A)/ the achievement of the goals and objectives (B)/ of the organization as all employees (C)/ contributes to their role in the workplace. (D)

- (a) II - B
- (b) I - C
- (c) II - A
- (d) I - D
- (e) None of these

Q95. The superiors must ensure that employee do not fight amongst themselves, and in cases of conflicts, management must intervene and sort out differences immediately.

(I) Marketing research is not an exact science, (A)/ though it uses the techniques of science, (B)/ thus, the conclusion drawn upon (C)/ by using it are not very accurate. (D)

(II) Decision-making is a simple process, (A) but soon becomes complicated when (B)/ a number of people are involved (C)/ in the decision-making process. (D)

- (a) I - A
- (b) II - B
- (c) II - D
- (d) I - C
- (e) None of these

Q96. Due to limited experience, many business executives and researchers have ambiguity about the nature of the research problems and its objectives.

(I) The employees must work in close (A)/ coordination with each other (B)/ and try its best level (C)/ to achieve the organization's goals. (D)

(II) Inappropriate training for researchers (A) can lead to the misapprehension (B)/ of questions to be asked (C)/ for data collection during the survey. (D)

- (a) II - D
- (b) I - C
- (c) II - A
- (d) I - B
- (e) None of these

Q97. Effective leadership help the employees work together in close coordination at the workplace and strive hard to accomplish tasks within the stipulated time frame.

(I) The management process increases comparisons (A)/ between individuals at the workplace, (B)/ as employees tend to depend on nasty politics (C)/ to outshine their fellow workers. (D)

(II) Organization management refer to the art (A) of getting people together on a common (B)/ platform to make them work (C)/ towards a common predefined goal. (D)

- (a) I - C
- (b) II - D
- (c) II - A
- (d) I - B
- (e) None of these

Directions (98-102): In the following paragraph, a few words have been highlighted, each of which has been numbered. In terms of grammatical accuracy, these highlighted words may or may not be correct. Choose the most appropriate word from the given options to replace the incorrect word. Choose option (E) as your answer choice if the highlighted words are grammatically correct and don't need to be replaced.

Q98. The United Nations Commission on Human Rights adopted a resolution **sponsor by (98)** India and two other countries directing the Commission to **considerate (99)** the feasibility of observing an international year on **eradicate (100)** of poverty - "Garibi Hatao". India introduced the idea of an International Year on Eradication of Poverty **following (101)** a suggestion made at the start of the Commission's current session. It had **recalled (102)** the economic goal of "Garibi Hatao" set by the Prime Minister, Mrs. Indira Gandhi, for India.

- (a) sponsors with
- (b) sponsored by
- (c) sponsoring in
- (d) sponsored for
- (e) No replacement required

Q99. The United Nations Commission on Human Rights adopted a resolution **sponsor by (98)** India and two other countries directing the Commission to **considerate (99)** the feasibility of observing an international year on **eradicate (100)** of poverty - "Garibi Hatao". India introduced the idea of an International Year on Eradication of Poverty **following (101)** a suggestion made at the start of the Commission's current session. It had **recalled (102)** the economic goal of "Garibi Hatao" set by the Prime Minister, Mrs. Indira Gandhi, for India.

- (a) considers
- (b) considered
- (c) considering
- (d) consider
- (e) No replacement required

Q100. The United Nations Commission on Human Rights adopted a resolution **sponsor by (98)** India and two other countries directing the Commission to **considerate (99)** the feasibility of observing an international year on **eradicate (100)** of poverty - "Garibi Hatao". India introduced the idea of an International Year on Eradication of Poverty **following (101)** a suggestion made at the start of the Commission's current session. It had **recalled (102)** the economic goal of "Garibi Hatao" set by the Prime Minister, Mrs. Indira Gandhi, for India.

- (a) eradicating
- (b) eradication
- (c) eradicated
- (d) eradicates
- (e) No replacement required

Q101. The United Nations Commission on Human Rights adopted a resolution **sponsor by (98)** India and two other countries directing the Commission to **considerate (99)** the feasibility of observing an international year on **eradicate (100)** of poverty - "Garibi Hatao". India introduced the idea of an International Year on Eradication of Poverty **following (101)** a suggestion made at the start of the Commission's current session. It had **recalled (102)** the economic goal of "Garibi Hatao" set by the Prime Minister, Mrs. Indira Gandhi, for India.

- (a) followed
- (b) follows
- (c) followings
- (d) follow
- (e) No replacement required

Q102. The United Nations Commission on Human Rights adopted a resolution **sponsor by (98)** India and two other countries directing the Commission to **considerate (99)** the feasibility of observing an international year on **eradicate (100)** of poverty - "Garibi Hatao". India introduced the idea of an International Year on Eradication of Poverty **following (101)** a suggestion made at the start of the Commission's current session. It had **recalled (102)** the economic goal of "Garibi Hatao" set by the Prime Minister, Mrs. Indira Gandhi, for India.

- (a) recalling
- (b) recalls
- (c) recall
- (d) calling
- (e) No replacement required

Directions (103-105): Two paragraphs with a blank space are provided in each of the following questions. Fill in the blank space with the most appropriate one out of the four options given below, taking into consideration the consistency and compatibility of the two paragraphs. If none of the given options seems appropriate to fill in the blank space, choose option (E) as your answer choice.

Q103.

(A) Sri Lanka is gearing up to host the Fifth Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) Summit. This special occasion makes it imperative for BIMSTEC leaders to reinforce their commitments and efforts in building the momentum of collaborations in the Bay of Bengal region for the security and development of all.

(B) _____?

(C) The economic and strategic significance of the Bay of Bengal is also growing rapidly with a re-emergence of the idea of the 'Indo-Pacific' region. This notion assumes that the growing security connections between the Western Pacific and the Indian Ocean regions are creating a shared strategic space.

(a) Although the Center has no involvement in law and order, it may be required to recommend certain States refrain from using the power of arrest to appease majoritarian groups and individuals, however, the arrest, according to the district police, was made to maintain law and order.

(b) Due to their impressive teamwork and the completion of various agreements to strengthen regional strategic and economic integration, this summit is also expected to generate a unique ecosystem for viable partnerships among the member states.

(c) The secretariat oversees and facilitates the implementation of several activities and programs, thus, the leaders must agree to strengthen its institutional capacity, as approval of a charter during the summit will increase its visibility and stature in multilateral conferences.

(d) The Union administration should be equally concerned about the prospective damage that such instances may cause to its global image as a regime that takes strong exception to vehement criticism about its human rights and religious tolerance records.

(e) None of these

Q104.

(A) The average cost of construction for housing projects has increased over the last year due to increases in raw materials, which account for the majority of the total cost of construction; as a result, developers will be forced to raise prices.

(B) Since the job market is now seeing a lot of churns, higher attrition has been leading to better increments, therefore, recruiters are predicted to offer better increments in the next months, while some are expected to dole out ordinary advancements.

(C) _____?

(a) Peanut oil from Siberia might enable the world's largest edible oil importer to make up for a shortfall in vegetable oils, which has been exacerbated by Indonesia's decision to restrict palm oil exports and a reduced soybean harvest in South America.

(b) Recruiters reported new and replacement staffing in their organizations until June of this year as their anticipation of returning to normalcy is generating a strong hiring sentiment, since there has been pent-up demand across sectors.

(c) A captain's formative reputation can be difficult to shake, in contrast to how players are evaluated only on the basis of runs scored or wickets taken, regardless of whether or not these performances resulted in a win.

(d) India has agreed to purchase several tonnes of Russian sunflower oil at a record-high price for shipments in April, as edible oil prices in the country increased exponentially after supplies from competing Ukraine were cut off.

(e) None of these

Q105.

(A) _____?

(B) The social media behemoth headquartered in the United States was also grilled over charges that hate speech is rewarded on the platform, as well as the company's lack of Indian language experts for quality assurance.

(C) On Monday, the committee gathered to discuss "safeguarding citizens' rights and preventing misuse of social and online news media platforms, with a special focus on women's security in the digital domain."

(a) The Parliamentary Standing Committee on Information and Technology questioned social media officials regarding allegations that its advertising platform's algorithm disproportionately promotes one political party in the country.

(b) Representatives present at the conference defended themselves by claiming that the algorithm is designed to determine which adverts perform better than others and that the company has no involvement in the process.

(c) The committee members also demanded an explanation from the officials on the privacy violation and voiced worry that the technology appears to be prejudiced toward promoting and awarding inflammatory content.

(d) On developments in regard to the long-pending question, India has welcomed the talks between the President and the Tamil National Alliance (TNA), the largest grouping of legislators elected from the north and east to consult on the matter.

(e) None of these

Directions (106-110): A sentence with a highlighted phrasal verb is given in each of the following questions. Five phrasal verbs in the options are given for each sentence. You are required to select the phrasal verb that has the opposite meaning to the highlighted one and can also be used in a contextual manner if substituted for the highlighted phrasal verb.

Q106. The Chief Minister has promised to **take his hat off** corrupt officials at the earliest.

- (a) fork out with
- (b) take the mickey of
- (c) put up with
- (d) come down on
- (e) bear with

Q107. She started her own venture, but she wasn't able to **pick holes in** it due to inadequate funds.

- (a) tear a strip off
- (b) make a go of
- (c) fall through
- (d) look down upon
- (e) haul over the coals

Q108. The authorities informed us that the proposed football match will **push on** till next week due to the hurricane.

- (a) gain ground
- (b) make haste
- (c) stand over
- (d) turn out
- (e) get through

Q109. The company wants to **bump up** the labor costs in order to generate a huge profit this fiscal year.

- (a) give away
- (b) run after
- (c) fall upon
- (d) break out
- (e) bottle up

Q110. The inscriptions on ancient walls have been **held over** and can no longer be read.

- (a) set about
- (b) taken up
- (c) kept off
- (d) worn away
- (e) come out

Directions (111-112): A sentence with six highlighted words is given in each of the following questions. A few of these highlighted words may or may not be placed in their proper positions. You are required to select the correct sequence of the highlighted words from the options given below to make a grammatically correct and contextually coherent sentence. Choose option (E) as your response if all of the highlighted words are appropriately placed.

Q111. Effective communication is the **failure (A)** of properly conveying one's ideas and **thoughts (B)**, and it plays a **communicate (C)** role in the success or **proWess (D)** of an organization, as individuals need to **crucial (E)** successfully at work for **improved (F)** transparency and clarity.

- (a) BDEAFC
- (b) DBEACF
- (c) EACFDB
- (d) ADCBEF
- (e) No rearrangement required

Q112. Qualitative research is non-statistical and **employs (A)** an inductive method to **generate (B)** an early **understanding (C)** of an issue because it is implemented in **exploratory (D)** research design and **descriptive (E)** research in a number of formats, such as interview **transcripts (F)** and notes.

- (a) DBEACF
- (b) BDEAFC
- (c) EACFDB
- (d) ADCBEF
- (e) No rearrangement required

Directions (113-115): In the following questions, two columns are given containing three sentences/phrases each. In the first column, sentences/phrases are A, B and C and in the second column, the sentences/phrases are D, E and F. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column. Each question has five options, four of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. Choose the appropriate option. If none of the given options forms a correct sentence after combination, mark (E), i.e. "None of these" as your answer.

Q113.

COLUMN I

- (A) Agility is the capacity to adjust to change or
- (B) Process management is a key distinction and
- (C) Volatility is most likely to remain constant

COLUMN II

- (D) geographical boundaries are gradually dissolving.
- (E) most businesses agree that it helps them increase revenue.
- (F) respond to an external stimulus quickly.

- (a) Only A-E and B-D
- (b) Only B-F
- (c) Only A-F and B-E
- (d) Only C-E
- (e) None of these

Q114.

COLUMN I

- (A) Since flexibility is one of the most critical principles of organizational innovation,
- (B) Employee satisfaction can be achieved by framing an incentive plan for employees,
- (C) Dynamism goes hand in hand when working in the midst of chaos and consistency

COLUMN II

- (D) which can be done by keeping motivation in mind for the benefit of the employees.
- (E) business processes should be simple enough to accommodate change at any level.

(F) India is pursuing a number of such agreements with various countries of the world.

- (a) Only A-E and B-D
- (b) Only C-E
- (c) Only A-F and B-E
- (d) Only B-F
- (e) None of these

Q115.

COLUMN I

- (A) You'll notice a skill deficit when a high-level professional quits your company
- (B) You are completely reliant on them for as long as they are working with you

(C) Corporate etiquette refers to behaving appropriately and sensibly at work

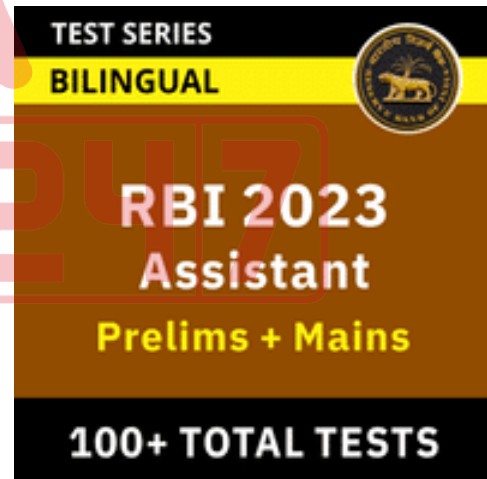
COLUMN II

(D) no one will take anything you say seriously, if you do not behave properly at work.

(E) worker stability is critical from the standpoint of a company's reputation and goodwill.

(F) they may remain loyal to the company if they feel like they have a role in how it is run.

- (a) Only A-D and B-F
- (b) Only C-F
- (c) Only A-E and B-D
- (d) Only B-E
- (e) None of these



Solutions

S1. Ans.(c)

Sol. Logic applied in each step given below:

Step I: In each word consonants are changed to second succeeding letter according to English alphabetical series and the vowels remain same.

Step II: In each word vowels are changed to the immediate succeeding letter according to English alphabetical series and the consonants remain same.

Step III: In each word all repeated letters are eliminated.

Step IV: In each word the letter with the greatest place value is changed to the immediately preceding letter according to English alphabetical series.

Step V: In each word the letter with the lowest place value is changed to the third succeeding letter according to English alphabetical series and the position of first and last letter interchanged.

Bracket represents "#".

S2. Ans.(d)

Sol. Logic applied in each step given below:

Step I: In each word consonants are changed to second succeeding letter according to English alphabetical series and the vowels remain same.

Step II: In each word vowels are changed to the immediate succeeding letter according to English alphabetical series and the consonants remain same.

Step III: In each word all repeated letters are eliminated.

Step IV: In each word the letter with the greatest place value is changed to the immediately preceding letter according to English alphabetical series.

Step V: In each word the letter with the lowest place value is changed to the third succeeding letter according to English alphabetical series and the position of first and last letter interchanged.

dtbm represents "\$".

S3. Ans.(e)

Sol. Logic applied in each step given below:

Step I: In each word consonants are changed to second succeeding letter according to English alphabetical series and the vowels remain same.

Step II: In each word vowels are changed to the immediate succeeding letter according to English alphabetical series and the consonants remain same.

Step III: In each word all repeated letters are eliminated.

Step IV: In each word the letter with the greatest place value is changed to the immediately preceding letter according to English alphabetical series.

Step V: In each word the letter with the lowest place value is changed to the third succeeding letter according to English alphabetical series and the position of first and last letter interchanged.

am is the wrong word and the correct word is bl.

S4. Ans.(b)

Sol. Logic applied in each step given below:

Step I: In each word consonants are changed to second succeeding letter according to English alphabetical series and the vowels remain same.

Step II: In each word vowels are changed to the immediate succeeding letter according to English alphabetical series and the consonants remain same.

Step III: In each word all repeated letters are eliminated.

Step IV: In each word the letter with the greatest place value is changed to the immediately preceding letter according to English alphabetical series.

Step V: In each word the letter with the lowest place value is changed to the third succeeding letter according to English alphabetical series and the position of first and last letter interchanged.

tupdn represents "@".

S5. Ans.(a)

Sol. Logic applied in each step given below:

Step I: In each word consonants are changed to second succeeding letter according to English alphabetical series and the vowels remain same.

Step II: In each word vowels are changed to the immediate succeeding letter according to English alphabetical series and the consonants remain same.

Step III: In each word all repeated letters are eliminated.

Step IV: In each word the letter with the greatest place value is changed to the immediately preceding letter according to English alphabetical series.

Step V: In each word the letter with the lowest place value is changed to the third succeeding letter according to English alphabetical series and the position of first and last letter interchanged.

pqp represents "%".

S6. Ans.(c)

Sol.

January	February	March	April
N (17)	A (7)	L (18)	D (11)
O (13)	M (14)	B (12)	C (8)

S7. Ans.(c)

Sol.

January	February	March	April
N (17)	A (7)	L (18)	D (11)
O (13)	M (14)	B (12)	C (8)

S8. Ans.(b)

Sol.

January	February	March	April
N (17)	A (7)	L (18)	D (11)
O (13)	M (14)	B (12)	C (8)

S9. Ans.(d)**Sol.**

January	February	March	April
N (17)	A (7)	L (18)	D (11)
O (13)	M (14)	B (12)	C (8)

S10. Ans.(b)

Sol. State Government should tackle the issues of forest fires, it should be controlled. 71% of state is covered with forest cover. All the trees cannot be cut down.

Option (b) is the correct course of action, Fire control room and stations should be setup at tehsils and block levels.

Option(c) is one of the courses of action but it is not the only course of action. So, it will not be right answer.

S11. Ans.(e)

Sol. Option (I)-False-Reason: CM of Uttarakhand will take some immediate course of action, but resignation of CM can't be assumed.

Option (II)-True-Reason: It can be assumed as there is line in above statement "the state, with a forest cover of 71% of its area, still does not have an effective strategy to deal with forest fires" It shows this issue is from long time.

Option (III)-True-Reason: As air person have given responsibility to tackle the forest fire it means they got the training to handle this type of situation.

Option (IV)-True-Reason: As this is major issue for any state whose major geographical area is forest. So, other state having major part as a forest will take lesson from what happened in Uttarakhand and will take some preventive measures.

Option (V)-False-Shifting all the animals from Uttarakhand Forest to another state forest area is not a practical case. So, it cannot be assumed.

S12. Ans.(e)**Sol.**

Words	Codes
Union / Vote	rdc/plm
Structure	hbu
Federal	scr
Unit	tby
Count	bnp
States	qaz

S13. Ans.(d)**Sol.**

Words	Codes
Union / Vote	rdc/plm
Structure	hbu
Federal	scr
Unit	tby
Count	bnp
States	qaz

S14. Ans.(b)**Sol.**

Days	Students	Subjects	Ranks
Monday	V	History	VII
Tuesday	H	Computer	VI
Wednesday	G	Math	IV
Thursday	K	English	III
Friday	T	Bio	II
Saturday	C	Hindi	I
Sunday	B	Physics	V

S15. Ans.(d)**Sol.**

Days	Students	Subjects	Ranks
Monday	V	History	VII
Tuesday	H	Computer	VI
Wednesday	G	Math	IV
Thursday	K	English	III
Friday	T	Bio	II
Saturday	C	Hindi	I
Sunday	B	Physics	V

S16. Ans.(c)**Sol.**

Days	Students	Subjects	Ranks
Monday	V	History	VII
Tuesday	H	Computer	VI
Wednesday	G	Math	IV
Thursday	K	English	III
Friday	T	Bio	II
Saturday	C	Hindi	I
Sunday	B	Physics	V

S17. Ans.(b)**Sol.**

Days	Students	Subjects	Ranks
Monday	V	History	VII
Tuesday	H	Computer	VI
Wednesday	G	Math	IV
Thursday	K	English	III
Friday	T	Bio	II
Saturday	C	Hindi	I
Sunday	B	Physics	V

S18. Ans.(e)

Sol. For I: Yes, It is strong argument as it supports the statement that by consuming an apple a day any one can keep himself fit and fine.

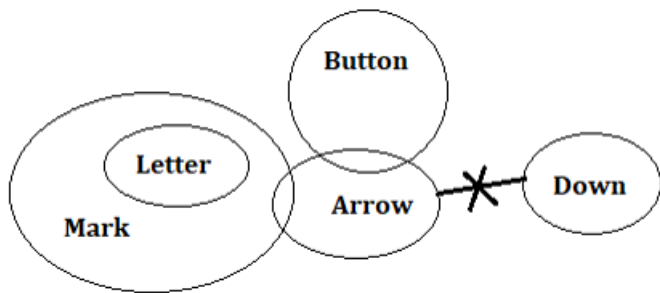
For II: No. It is not supporting the statement because argument II is about real juice of apple flavor but in statement consuming of apple fruit is instructed and it is also said in argument to ban it which is not in support of statement.

For III: No, It is not strong because according to statement it's an initiative from health ministry to take an apple daily but in argument III, other side of statement is shown which is not in support.

For IV: No, it is not strong with respect to statements as it's an alternative to be healthy but it is not in support of an initiative which is stated by health ministry.

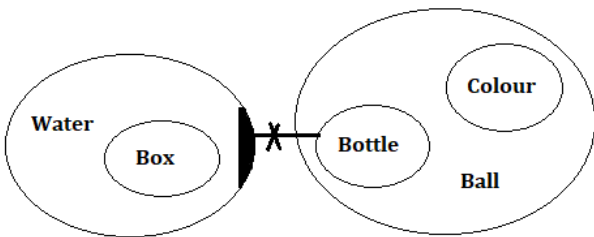
S19. Ans.(c)

Sol.



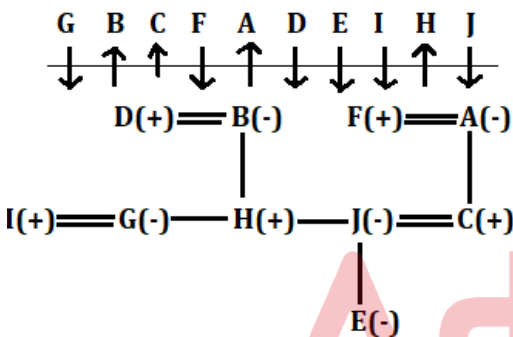
S20. Ans.(d)

Sol.



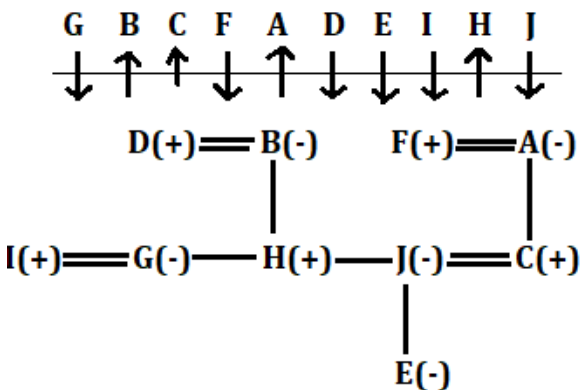
S21. Ans.(a)

Sol.



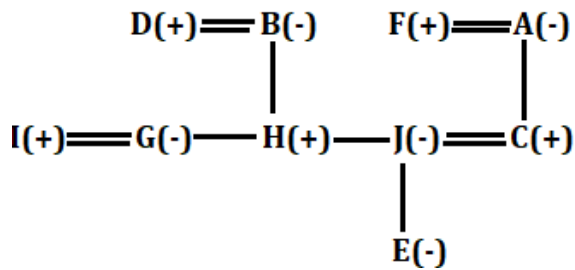
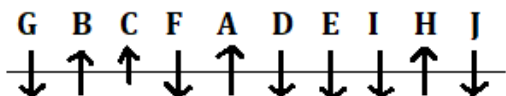
S22. Ans.(b)

Sol.



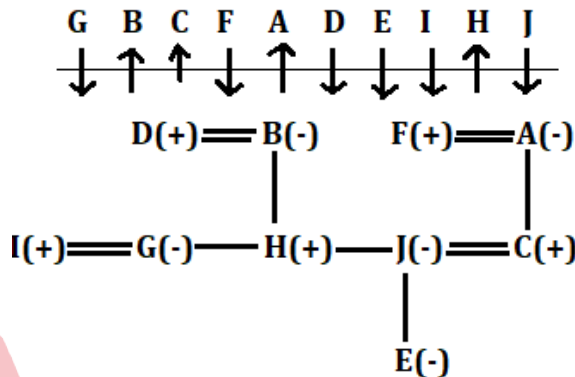
S23. Ans.(e)

Sol.



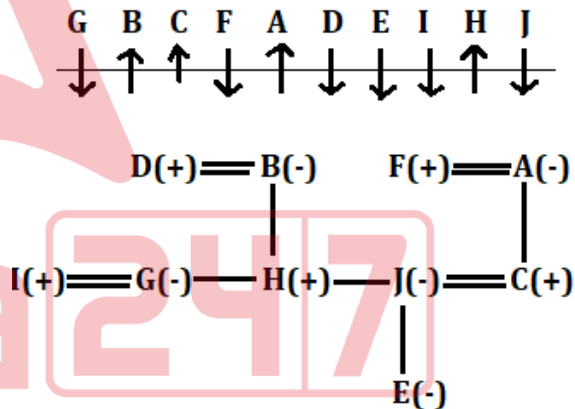
S24. Ans.(d)

Sol.



S25. Ans.(c)

Sol.



S26. Ans.(c)

Sol. In the above statement, concern and problem related to air pollution has been stated. Option I is about premature death whose reason is air pollution. So, it supports the fact found in study. Option II is stating about life span which can be increased by 1.7 years if pollution level will get controlled. So, II also supports the fact found in study. Option III nullifies the fact as there has been mention of seven cities of India in the list of top 20 world safest cities to breathe.

S27. Ans.(e)

Sol. Option (I) states about future increase of air pollution. So, it is in the line about the fact mentioned in the statement. Option II and III are also something about air pollution. So correct answer will be (e) None of them i.e. there are not any option which is not related to fact mentioned in statement.

S28. Ans.(b)

Sol.

1	
3	A
5	
7	
9	E
11	
13	J
15	M
17	K
19	
21	T
23	
25	I
27	
29	L

Two meaningful words formed by E, M, I, L= LIME and MILE.

S29. Ans.(e)

Sol.

1	
3	A
5	
7	
9	E
11	
13	J
15	M
17	K
19	
21	T
23	
25	I
27	
29	L

letters according to the English alphabetical series placed between J and T= K, L, M, N, O, P, Q, R and S. So, 9 letters are placed between J and T.

S30. Ans.(a)

Sol. I.Q#Z (True)

II.S&W(False)

III.P%Y(False)

S31. Ans.(d)

Sol. I. I\$D (False)

II. K&N (False)

III.K\$M(False)

S32. Ans.(c)

Sol. I. IV\$R (True)

II. K#U(True)

III.R&U(False)

S33. Ans.(e)

Sol. I. P\$G(False)

II. R#L(True)

III.I&P(True)

S34. Ans.(a)

Sol.

U	R	Y	N
K	Z	O	S
P	T	L	W
X	M	V	Q

S35. Ans.(d)

Sol.

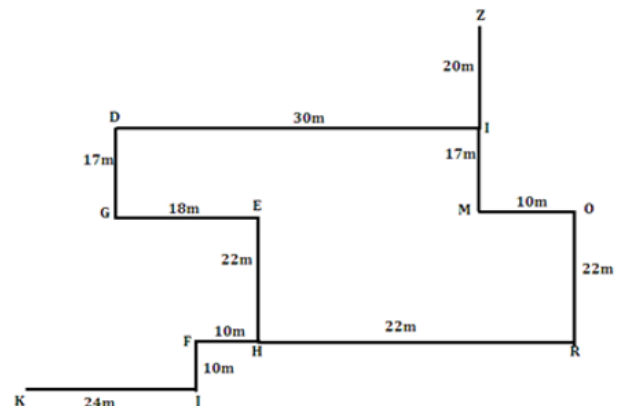
U	R	Y	N
K	Z	O	S
P	T	L	W
X	M	V	Q

S36. Ans.(a)

Sol. Only statement (a) can be deduced from the given statement as by burning the coal the concentration of its particles is increased which lead to excessive amount of air pollution. But for others (b) and (e) can be assumed but cannot be deduced. While for (c) and (d) the amount of average rainfall and its consistency is not directly given in the statement.

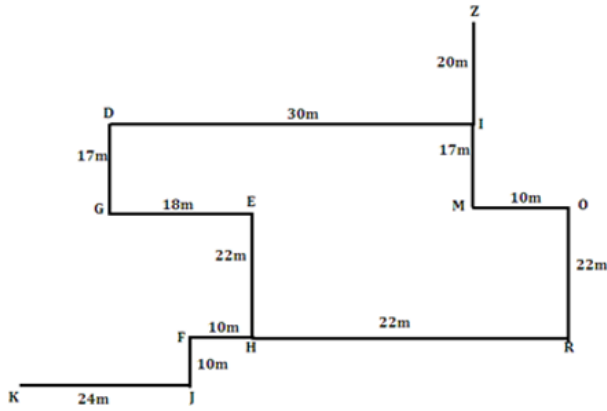
S37. Ans.(d)

Sol.



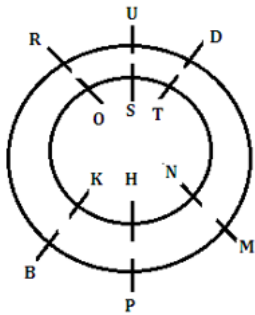
Point H is in south west direction with respect to point Z

S38. Ans.(b)
Sol.



Total distance between point R and point D=79m

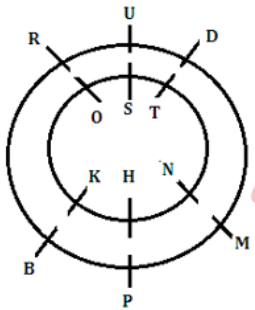
S39. Ans.(c)
Sol.



- P (+) = S (-)
- M (+) = O (-)
- D (+) = H (-)
- B (+) = N (-)
- U (+) = T (-)
- R (+) = K (-)

N's husband (B) sits third to the right of H's husband.

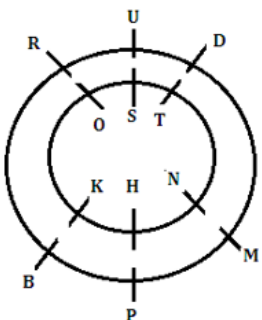
S40. Ans.(a)
Sol.



- P (+) = S (-)
- M (+) = O (-)
- D (+) = H (-)
- B (+) = N (-)
- U (+) = T (-)
- R (+) = K (-)

One person sits between O and T when counted from the left of T.

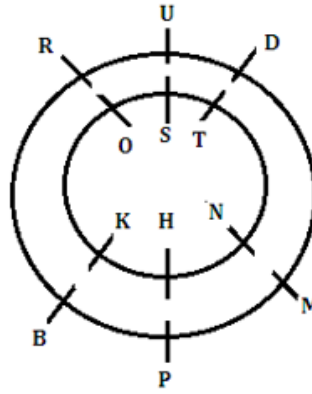
S41. Ans.(d)
Sol.



- P (+) = S (-)
- M (+) = O (-)
- D (+) = H (-)
- B (+) = N (-)
- U (+) = T (-)
- R (+) = K (-)

Only statement (d) is true.

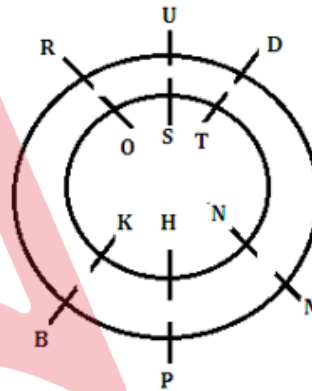
S42. Ans.(e)
Sol.



- P (+) = S (-)
- M (+) = O (-)
- D (+) = H (-)
- B (+) = N (-)
- U (+) = T (-)
- R (+) = K (-)

Except the pair given in option (e) all the pairs are married couples.

S43. Ans.(b)
Sol.



- P (+) = S (-)
- M (+) = O (-)
- D (+) = H (-)
- B (+) = N (-)
- U (+) = T (-)
- R (+) = K (-)

The one who sits second to the right of D i.e. R sits at the outer circular table.

S44. Ans.(a)

Sol. Only statement (a) can be deduced from the given statement as by burning the coal the concentration of its particles is increased which lead to excessive amount of air pollution. But for others (b) and (e) can be assumed but cannot be deduced. While for (c) and (d) the amount of average rainfall and its consistency is not directly given in the statement.

S45. Ans.(e)

Sol. More lifts in city X than city Y could be due to the differences in the average heights of the buildings or the difference in the total number of houses of the two cities. So, neither I nor II can be concluded from given statement.

S46. Ans.(b)

Sol.

Train A:

Let original speed of train A = $4x$

Reduced speed of train A = $4x \times \frac{75}{100} = 3x$

Total distance travelled = $(60 + d) \text{ km}$

Train A reached station Y at 10 A.M.

If trains travelled with its original speed, then they will reach station Y at 8.30 A.M.

Time difference = $10 - 8.30 = 1 \text{ hour } 30 \text{ min} = \frac{3}{2} \text{ hour}$

ATQ.

$$\frac{d}{3x} - \frac{d}{4x} = \frac{3}{2}$$

$$\frac{d}{12x} - \frac{d}{2} = \frac{3}{2}$$

$$d = 18x \dots (i)$$

Train B:

Original speed of train B same as train A

So, original speed of train B = 4x

Reduced speed of train B = $4x \times \frac{75}{100} = 3x$

Train B travelled 90 km by speed of 4x

And $(d - 30)$ km distance travelled by speed of 3x

Train B reached station Y at 9 : 45 A.M.

If trains travelled with its original speed, then they will reach station Y at 8.30 A.M.

Time difference = $9.45 - 8.30 = 1$ hour 15 min = $\frac{5}{4}$ hour

ATQ.

$$\frac{d-30}{3x} - \frac{d-30}{4x} = \frac{5}{4}$$

$$\frac{d-30}{12x} = \frac{5}{4} \quad (d = 18x \dots (i))$$

$$\frac{18x-30}{12x} = \frac{5}{4}$$

$$18x - 30 = 15x$$

$$3x = 30$$

$$x = 10$$

So, $d = 180$ km

Total distance = $60 + 180 = 240$ km

Req. distance = 240 km

S47. Ans.(a)

Sol.

Train A:

Let original speed of train A = 4x

Reduced speed of train A = $4x \times \frac{75}{100} = 3x$

Total distance travelled = $(60 + d)$ km

Train A reached station Y at 10 A.M.

If trains travelled with its original speed, then they will reach station Y at 8.30 A.M.

Time difference = $10 - 8.30 = 1$ hour 30 min = $\frac{3}{2}$ hour

ATQ.

$$\frac{d}{3x} - \frac{d}{4x} = \frac{3}{2}$$

$$\frac{d}{12x} - \frac{d}{2} = \frac{3}{2}$$

$$d = 18x \dots (i)$$

Train B:

Original speed of train B same as train A

So, original speed of train B = 4x

Reduced speed of train B = $4x \times \frac{75}{100} = 3x$

Train B travelled 90 km by speed of 4x

And $(d - 30)$ km distance travelled by speed of 3x

Train B reached station Y at 9 : 45 A.M.

If trains travelled with its original speed, then they will reach station Y at 8.30 A.M.

Time difference = $9.45 - 8.30 = 1$ hour 15 min = $\frac{5}{4}$ hour

ATQ.

$$\frac{d-30}{3x} - \frac{d-30}{4x} = \frac{5}{4}$$

$$\frac{d-30}{12x} = \frac{5}{4} \quad (d = 18x \dots (i))$$

$$\frac{18x-30}{12x} = \frac{5}{4}$$

$$18x - 30 = 15x$$

$$3x = 30$$

$$x = 10$$

So, $d = 180$ km

Total distance = $60 + 180 = 240$ km

Speed of train A = $4x = 40$ km/hr

Speed of train C = $40 \times \frac{300}{100} = 120$ km/hr

Req. time = $\frac{240}{120} = 2$ hour

S48. Ans.(d)

Sol.

Train A:

Let original speed of train A = 4x

Reduced speed of train A = $4x \times \frac{75}{100} = 3x$

Total distance travelled = $(60 + d)$ km

Train A reached station Y at 10 A.M.

If trains travelled with its original speed, then they will reach station Y at 8.30 A.M.

Time difference = $10 - 8.30 = 1$ hour 30 min = $\frac{3}{2}$ hour

ATQ.

$$\frac{d}{3x} - \frac{d}{4x} = \frac{3}{2}$$

$$\frac{d}{12x} - \frac{d}{2} = \frac{3}{2}$$

$$d = 18x \dots (i)$$

Train B:

Original speed of train B same as train A

So, original speed of train B = 4x

Reduced speed of train B = $4x \times \frac{75}{100} = 3x$

Train B travelled 90 km by speed of 4x

And $(d - 30)$ km distance travelled by speed of 3x

Train B reached station Y at 9 : 45 A.M.

If trains travelled with its original speed, then they will reach station Y at 8.30 A.M.

Time difference = $9.45 - 8.30 = 1$ hour 15 min = $\frac{5}{4}$ hour

ATQ.

$$\frac{d-30}{3x} - \frac{d-30}{4x} = \frac{5}{4}$$

$$\frac{d-30}{12x} = \frac{5}{4} \quad (d = 18x \dots (i))$$

$$\frac{18x-30}{12x} = \frac{5}{4}$$

$$18x - 30 = 15x$$

$$3x = 30$$

$$x = 10$$

So, $d = 180$ km

Total distance = $60 + 180 = 240$ km

Req. time = $\frac{240}{40} + \frac{240}{40} = 6 + 6 = 12$ hour

S49. Ans.(d)

Sol.

I. let efficiency of a man and a woman be 'm' & 'w' respectively.

Total work = $(4m + 6w) \times 20$

II. Number of days taken by two men to complete a

work is same as number of days taken by three women for same work.

So, efficiency of man & woman

$$2m = 3w$$

$$\frac{m}{w} = \frac{3}{2}$$

$$\frac{m}{w} = \frac{3}{2}$$

So, both the statements taken together are necessary to answer the questions.

S50. Ans.(d)

Sol.

I. let length and breadth of rectangle be 'l' & 'b' respectively

ATQ.

$$2(l + b) = \frac{9}{2}b$$

$$4l + 4b = 9b$$

$$4l = 5b$$

$$l = \frac{5b}{4}$$

$$\text{II. } l^2 - b^2 = \frac{27}{5}b$$

Combining both statement

$$\frac{25b^2}{16} - b^2 = \frac{27b}{5}$$

$$\frac{9b^2}{16} = \frac{27b}{5}$$

$$b = \frac{48}{5}$$

$$l = \frac{5}{4} \times \frac{48}{5} = 12$$

So, both the statements taken together are necessary to answer the questions.

BILINGUAL

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S51. Ans.(c)

Sol.

I. let cost price = Rs.100x
 Marked price = Rs. 100x+360
 Selling price = $\frac{90}{100}(100x + 360) = \text{Rs. } 90x + 324$
 ATQ.
 $108x = 90x + 324$
 $18x = 324$
 $x = 18$
 Cost price = Rs.1800
 II. let cost price = Rs.100x
 S.P. -C.P. = 216
 $12x = 216$
 $x = 18$
 Cost price = Rs.1800
 So, either statement (I) or statement (II) by itself is sufficient to answer the question.

S52. Ans.(b)

Sol.

Quantity I: $\frac{AM}{3} > \sqrt[3]{GM}$
 $\frac{p+q+r}{3} > \sqrt[3]{pqr}$
 $\frac{15}{3} > \sqrt[3]{pqr}$
 $5 > \sqrt[3]{pqr}$
 $125 > pqr$
 p, q and r not equal so value of p, q, r is less than 125
Quantity II: Maximum product when two value negative and one positive
 p, q and r ≥ -10
 so, vale of p, q and r is -9, -8, 32
 Maximum value = $-10 \times -9 \times 34 = 90 \times 34 = 3060$
 So, Quantity I < Quantity II

S53. Ans.(a)

Sol.

$\frac{4x-3a}{x} = \frac{2}{3}$
 $12x - 9a = 2x$
 $10x = 9a$
 $x = \frac{9a}{10}$
 We can't find the sign of x and a
 So, neither statement (I) nor statement (II) by itself is sufficient to answer the question.

S54. Ans.(a)

Sol.

Quantity I: Downstream speed of boat = $\frac{20}{4} = 5 \text{ km/h}$
 Upstream speed of boat = $\frac{20}{5} = 4 \text{ km/h}$
 Speed of boat in still water = 4.5 km/h
 And speed of stream = 0.5 km/h
Quantity II: Speed of boat in still water = $\frac{48}{3} = 16 \text{ km/h}$
 Speed of stream = 4 km/h
 Time taken by boat to cover the same distance in upstream = $\frac{48}{12} = 4 \text{ hour}$
 Req. difference = 4 - 3 = 1 hour
 So, Quantity I > Quantity II

S55. Ans.(e)

Sol.

Company X:
 Total no. of existing employees = 64
 Two new members are added in each group
 Total (existing + new) member's employees = 64+6 = 70
 Total (existing + new) members in HR & Marketing group to that in Finance group becomes 4: 3.
 Number of (existing + new) members in Finance = $70 \times \frac{3}{7} = 30$
 Let number of (existing + new) members in HR be 'a'
 Number of (existing + new) members in Marketing = 40 - a

Company Y:

Number of existing members in HR = 6
 No member added in this group
 So, final number of employees in HR = 6
 Total number of existing members in Finance group = 10
 From other information
 Total number of (new + existing) members in Finance group of company Y = $20 - \frac{a}{2}$
 Number of new members added in finance group of company Y = $20 - \frac{a}{2} - 10 = 10 - \frac{a}{2}$
 Number of new members added in Marketing group company Y = $2 \left(10 - \frac{a}{2}\right) = 20 - a$
 Total number of members (new + existing) in Marketing group in company Y = $40 - a - 6 = 34 - a$
 Total number of existing members in Marketing group in company Y = $34 - a - (20 - a) = 14$
 $a + 20 - \frac{a}{2} = 28$
 $\frac{a}{2} = 8$
 $a = 16$

Companies	HR	Marketing	Finance	Total
X (existing employees)	14	22	28	64
X (new + existing)	16	24	30	70
Y (existing employees)	6	14	10	30
Y (new + existing)	6	18	12	36

Total number of existing members in company Y = 30

S56. Ans.(c)

Sol.

Company X:
 Total no. of existing employees = 64
 Two new members are added in each group
 Total (existing + new) member's employees = 64+6 = 70
 Total (existing + new) members in HR & Marketing group to that in Finance group becomes 4: 3.
 Number of (existing + new) members in Finance = $70 \times \frac{3}{7} = 30$
 Let number of (existing + new) members in HR be 'a'
 Number of (existing + new) members in Marketing = 40 - a
Company Y:
 Number of existing members in HR = 6
 No member added in this group
 So, final number of employees in HR = 6
 Total number of existing members in Finance group = 10
 From other information
 Total number of (new + existing) members in Finance group of company Y = $20 - \frac{a}{2}$
 Number of new members added in finance group of company Y = $20 - \frac{a}{2} - 10 = 10 - \frac{a}{2}$
 Number of new members added in Marketing group company Y = $2 \left(10 - \frac{a}{2}\right) = 20 - a$
 Total number of members (new + existing) in Marketing group in company Y = $40 - a - 6 = 34 - a$
 Total number of existing members in Marketing group in company Y = $34 - a - (20 - a) = 14$
 $a + 20 - \frac{a}{2} = 28$
 $\frac{a}{2} = 8$
 $a = 16$

Companies	HR	Marketing	Finance	Total
X (existing employees)	14	22	28	64
X (new + existing)	16	24	30	70
Y (existing employees)	6	14	10	30
Y (new + existing)	6	18	12	36

Req. ratio = 70 : 36 = 35 : 18

S57. Ans.(b)

Sol.

Company X:
 Total no. of existing employees = 64
 Two new members are added in each group
 Total (existing + new) member's employees = 64+6 = 70
 Total (existing + new) members in HR & Marketing group to that in Finance group becomes 4: 3.
 Number of (existing + new) members in Finance = $70 \times \frac{3}{7} = 30$
 Let number of (existing + new) members in HR be 'a'

Number of (existing + new) members in Marketing = $40 - a$

Company Y:

Number of existing members in HR = 6

No member added in this group

So, final number of employees in HR = 6

Total number of existing members in Finance group = 10

From other information

Total number of (new + existing) members in Finance group of company Y = $20 - \frac{a}{2}$

Number of new members added in finance group of company Y = $20 - \frac{a}{2} - 10 = 10 - \frac{a}{2}$

Number of new members added in Marketing group company Y = $2\left(10 - \frac{a}{2}\right) = 20 - a$

Total number of members (new + existing) in Marketing group in company Y = $40 - a - 6 = 34 - a$

Total number of existing members in Marketing group in company Y = $34 - a - (20 - a) = 14$

$a + 20 - \frac{a}{2} = 28$

$\frac{a}{2} = 8$

$a = 16$

Companies	HR	Marketing	Finance	Total
X (existing employees)	14	22	28	64
X (new + existing)	16	24	30	70
Y (existing employees)	6	14	10	30
Y (new + existing)	6	18	12	36

Total (new + existing) number of members in company Y = $36 + 5 = 41$

S58. Ans.(b)

Sol.

Company X:

Total no. of existing employees = 64

Two new members are added in each group

Total (existing + new) member's employees = $64 + 6 = 70$

Total (existing + new) members in HR & Marketing group to that in Finance group becomes 4: 3.

Number of (existing + new) members in Finance = $70 \times \frac{3}{7} = 30$

Let number of (existing + new) members in HR be 'a'

Number of (existing + new) members in Marketing = $40 - a$

Company Y:

Number of existing members in HR = 6

No member added in this group

So, final number of employees in HR = 6

Total number of existing members in Finance group = 10

From other information

Total number of (new + existing) members in Finance group of company Y = $20 - \frac{a}{2}$

Number of new members added in finance group of company Y = $20 - \frac{a}{2} - 10 = 10 - \frac{a}{2}$

Number of new members added in Marketing group company Y = $2\left(10 - \frac{a}{2}\right) = 20 - a$

Total number of members (new + existing) in Marketing group in company Y = $40 - a - 6 = 34 - a$

Total number of existing members in Marketing group in company Y = $34 - a - (20 - a) = 14$

$a + 20 - \frac{a}{2} = 28$

$\frac{a}{2} = 8$

$a = 16$

Companies	HR	Marketing	Finance	Total
X (existing employees)	14	22	28	64
X (new + existing)	16	24	30	70
Y (existing employees)	6	14	10	30
Y (new + existing)	6	18	12	36

Total number of existing members in HR and Marketing in both companies = $(14 + 6) + (22 + 14) = 52$

Total (new + existing) members in company Y = 36

Required percentage = $\frac{52-36}{36} \times 100 = 61.11\%$

S59. Ans.(e)

Sol.

Company X:

Total no. of existing employees = 64

Two new members are added in each group

Total (existing + new) member's employees = $64 + 6 = 70$

Total (existing + new) members in HR & Marketing group to that in Finance group becomes 4: 3.

Number of (existing + new) members in Finance = $70 \times \frac{3}{7} = 30$

Let number of (existing + new) members in HR be 'a'

Number of (existing + new) members in Marketing = $40 - a$

Company Y:

Number of existing members in HR = 6

No member added in this group

So, final number of employees in HR = 6

Total number of existing members in Finance group = 10

From other information

Total number of (new + existing) members in Finance group of company Y = $20 - \frac{a}{2}$

Number of new members added in finance group of company Y = $20 - \frac{a}{2} - 10 = 10 - \frac{a}{2}$

Number of new members added in Marketing group company Y = $2\left(10 - \frac{a}{2}\right) = 20 - a$

Total number of members (new + existing) in Marketing group in company Y = $40 - a - 6 = 34 - a$

Total number of existing members in Marketing group in company Y = $34 - a - (20 - a) = 14$

$a + 20 - \frac{a}{2} = 28$

$\frac{a}{2} = 8$

$a = 16$

Companies	HR	Marketing	Finance	Total
X (existing employees)	14	22	28	64
X (new + existing)	16	24	30	70
Y (existing employees)	6	14	10	30
Y (new + existing)	6	18	12	36

Total (new + existing) members in company Z in all three (HR, Marketing and Finance)

= $\left(\frac{70+36}{2} + 7\right) = 60$

Required difference = $60 \times \frac{6-4}{(5+6+4)} = 8$

S60. Ans.(d)

Sol.

I. $x = -2$

$2x^2 + 7x + k = 0$

$2(-2)^2 + 7 \times -2 + k = 0$

$8 - 14 + k = 0$

$k = 6$

$2x^2 + 7x + 6 = 0$

$x = -2, -\frac{3}{2}$

II. $(ay + b)^2 = 0$

Root of this eq. = $-\frac{3}{2}$

$ay + b = 0$

$ay = -b$

$y = -\frac{b}{a} = -\frac{3}{2}$

$\frac{b}{a} = \frac{3}{2}$

$p = -2 \times \sqrt{k+3}$

$p = -2 \times \sqrt{6+3}$

$p = -2 \times 3$

$p = -6$

S61. Ans.(e)**Sol.**

$$I. x = -2$$

$$2x^2 + 7x + k = 0$$

$$2(-2)^2 + 7 \times -2 + k = 0$$

$$8 - 14 + k = 0$$

$$k = 6$$

$$2x^2 + 7x + 6 = 0$$

$$x = -2, -\frac{3}{2}$$

$$II. (ay + b)^2 = 0$$

$$\text{Root of this eq.} = -\frac{3}{2}$$

$$ay + b = 0$$

$$ay = -b$$

$$y = -\frac{b}{a} = -\frac{3}{2}$$

$$\frac{b}{a} = \frac{3}{2}$$

We have ratio of b to a but we have not exact value of b so, cannot be determined

S62. Ans.(e)**Sol.**

Average of total watched episodes of web series A and D by the man is $(N - 192)$.

$$N \times \frac{20}{100} \times \frac{25}{100} + N \times \frac{10}{100} \times \frac{30}{100} = N - 192$$

$$\frac{0.05N + 0.03N}{2} = N - 192$$

$$0.04N = N - 192$$

$$N = 200$$

Total number of episodes of all four-web series = 200

$$\text{Total number of episodes watched of web series A} = 200 \times \frac{20}{100} \times \frac{25}{100} = 10 \text{ episodes}$$

Daily watch time for web series A by mam = 35 minutes

Length of each episode = 20 minutes

Total minutes to finish all episodes = $10 \times 20 = 200 \text{ minutes}$

$35 \times 5 = 175 \text{ minutes}$

175 minutes complete in 5 days

Remaining minutes to watch series = $200 - 175 = 25 \text{ minutes}$

Total days = $5 + 1 = 6 \text{ days}$

S63. Ans.(d)**Sol.**

Average of total watched episodes of web series A and D by the man is $(N - 192)$.

$$N \times \frac{20}{100} \times \frac{25}{100} + N \times \frac{10}{100} \times \frac{30}{100} = N - 192$$

$$\frac{0.05N + 0.03N}{2} = N - 192$$

$$0.04N = N - 192$$

$$N = 200$$

Total number of episodes of all four-web series = 200

Daily watch time for web series B by mam = 25 minutes

$$\text{Total number of days taken by man for watching 25 episodes of web series B} = \frac{25 \times 20}{25} = 20 \text{ days}$$

Daily watch time for web series C by mam = 18 minutes

$$\text{Total number of days taken by man for watching 20 episodes of web series C} = \frac{20 \times 20}{18}$$

$$= \frac{400}{18} = \frac{200}{9} \text{ days}$$

$$22 + 1 = 23 \text{ days}$$

Req. difference = $23 - 20 = 3 \text{ days}$

S64. Ans.(e)**Sol.**

Average of total watched episodes of web series A and D by the man is $(N - 192)$.

$$N \times \frac{20}{100} \times \frac{25}{100} + N \times \frac{10}{100} \times \frac{30}{100} = N - 192$$

$$\frac{0.05N + 0.03N}{2} = N - 192$$

$$0.04N = N - 192$$

$$N = 200$$

Total number of episodes of all four-web series = 200

Length of each episode = 20 minutes

Daily watch time for web series D by mam = 21 minutes

Days Episodes

Days 1 20 min (I) 1 min (II)

Day 2 19 min (II) 2 min (III)

Day 3 18 min (III) 3 min (IV)

Episode (III) & (IV) of web series D was watched by man on day three

S65. Ans.(a)**Sol.**

Average of total watched episodes of web series A and D by the man is $(N - 192)$.

$$N \times \frac{20}{100} \times \frac{25}{100} + N \times \frac{10}{100} \times \frac{30}{100} = N - 192$$

$$\frac{0.05N + 0.03N}{2} = N - 192$$

$$0.04N = N - 192$$

$$N = 200$$

Total number of episodes of all four-web series = 200

For A

Length of each episode = 20 minutes

Daily watch time for web series A by mam = 35 minutes

Days Episodes

Days 1 20 min (I) 15 min (II)

Day 2 5 min (II) 20 min (III) 10 min (IV)

Number of complete episodes watched by man = 3

For B

Length of each episode = 20 minutes

Daily watch time for web series B by mam = 25 minutes

Days Episodes

Days 1 20 min (I) 5 min (II)

Day 2 15 min (II) 10 min (III)

Number of complete episodes watched by man = 2

For C

Length of each episode = 20 minutes

Daily watch time for web series C by mam = 18 minutes

Days Episodes

Days 1 18 min (I)

Day 2 2 min (I) 16 min (II)

Number of complete episodes watched by man = 1

For D

Length of each episode = 20 minutes

Daily watch time for web series D by mam = 21 minutes

Days Episodes

Days 1 20 min (I) 1 min (II)

Day 2 19 min (II) 2 min (III)

Number of complete episodes watched by man = 2

Total number of complete episodes watched by man in first two days = $3 + 2 + 1 + 2 = 8$

S66. Ans.(b)**Sol.**

Average of total watched episodes of web series A and D by the man is $(N - 192)$.

$$N \times \frac{20}{100} \times \frac{25}{100} + N \times \frac{10}{100} \times \frac{30}{100} = N - 192$$

$$\frac{0.05N + 0.03N}{2} = N - 192$$

$$0.04N = N - 192$$

$$N = 200$$

Total number of episodes of all four-web series = 200

$$\text{Req. average} = \frac{200 \times \frac{80}{100} \times \frac{60}{100} + 200 \times \frac{40}{100} \times \frac{40}{100} + 200 \times \frac{10}{100} \times \frac{80}{100}}{3}$$

$$= \frac{36 + 32 + 6}{3} = \frac{74}{3} = 24.66$$

S67. Ans.(d)**Sol.**

Average of total watched episodes of web series A and D by the man is $(N - 192)$.

$$N \times \frac{20}{100} \times \frac{25}{100} + N \times \frac{10}{100} \times \frac{30}{100} = N - 192$$

$$\frac{0.05N + 0.03N}{2} = N - 192$$

$$0.04N = N - 192$$

$$N = 200$$

Total number of episodes of all four-web series = 200

Length of each episode = 20 minutes
 Daily watch time for web series C by mam = 18 minutes
 Minimum possible number of complete episodes of web series C watched by man after four days.

Days	Episodes
Days 1	18 min (I)
Day 2	2 min (I) 16 min (II)
Day 3	4 min (II) 14 min (III)
Day 4	6 min (III) 12 min (IV)

Total number of complete episodes watched by man in after four days = 3

S68. Ans.(b)

Sol.

A worked for one hour then he took rest for next 15 minutes
 So, A worked 8 hours and rest 2 hours

$$\text{Req. efficiency} = \frac{50}{8} = \frac{25}{4}$$

S69. Ans.(d)

Sol.

$$\text{Minimum efficiency} = \frac{60}{12} = 5 \text{ unit/hour}$$

$$\text{B's new efficiency} = 5 \times \frac{160}{100} = 8 \text{ unit/hour}$$

$$\text{Time taken to completed the work} = \frac{60}{12} = 7.5 \text{ hour}$$

$$\text{Rest time} = 12 - 7.5 = 4.5 \text{ hours}$$

S70. Ans.(a)

Sol.

C do 1-hour work and 15 min. rest
 12 hours work and 3 hours' rest

$$\text{Average of minimum efficiency of A and B} = \frac{(\frac{50}{10} + \frac{60}{12})}{2} = \frac{10}{2} = 5 \text{ unit/hour}$$

$$\text{C's efficiency} = 5 \times \frac{120}{100} = 6 \text{ unit/hour}$$

$$\text{Total work done by C} = 6 \times 12 = 72 \text{ units}$$

S71. Ans.(c)

Sol.

$$\begin{array}{cccccccc}
 a & b & 102 & 104 & 107 & 113 & 128 & 173 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} \\
 \boxed{+4} & \boxed{+2} & +2 & +3 & +6 & +15 & +45 & \\
 \times 0.5 & \times 1 & \times 1.5 & \times 2 & \times 2.5 & \times 3 & &
 \end{array}$$

$$a = 96$$

$$b = 100$$

$$b = 96$$

$$\text{New number series} = 100, 100 + 2^2, 100 + 3^3, 100 + 4^4, 100 + 5^5$$

$$\text{Fifth term of series} = 100 + 5^5$$

S72. Ans.(d)

Sol.

$$\begin{array}{cccccccc}
 a & b & 102 & 104 & 107 & 113 & 128 & 173 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} \\
 \boxed{+4} & \boxed{+2} & +2 & +3 & +6 & +15 & +45 & \\
 \times 0.5 & \times 1 & \times 1.5 & \times 2 & \times 2.5 & \times 3 & &
 \end{array}$$

$$a = 96$$

$$b = 100$$

$$96 \times 2 = X$$

$$192 = X$$

$$4^{\text{th}} \text{ term of series given} = 104$$

$$\text{Req. difference} = 192 - 104 = 88$$

S73. Ans.(a)

Sol.

$$\text{Scheme A rate of interest} = X^2 - 3X - 10 = 0$$

$$X = 5, -2$$

$$X = 5 = 5\%$$

$$\text{Time period} = 30 \text{ years}$$

$$\text{Time} > \text{rate of interest}$$

So, simple interest considered in scheme A

$$\text{Time period in scheme B} = Y^2 - Y - 6 = 0$$

$$Y = 3, -2$$

$$Y = 3 = 3 \text{ years}$$

$$\text{Rate of interest} = 20\%$$

$$\text{Time} < \text{rate of interest}$$

So, compound interest considered in scheme B

$$\text{Amount invested by Q} = \text{Rs.15000}$$

$$\text{Amount invested by P} = 15000 \times \frac{2}{3} = \text{Rs. 10000}$$

sum invested and profit earned by A is same

$$\text{New rate of interest for P}$$

$$\text{time} \times \text{rate} = 100\%$$

$$30 \times \text{rate} = 100$$

$$\text{rate} = \frac{10}{3}\%$$

$$\text{Actual rate} = 5\%$$

$$\text{Required percentage} = \frac{\frac{10}{3}}{30 \times 5} \times 100 = \frac{20}{9}\%$$

S74. Ans.(b)

Sol.

$$\text{Scheme A rate of interest} = X^2 - 3X - 10 = 0$$

$$X = 5, -2$$

$$X = 5 = 5\%$$

$$\text{Time period} = 30 \text{ years}$$

$$\text{Time} > \text{rate of interest}$$

So, simple interest considered in scheme A

$$\text{Time period in scheme B} = Y^2 - Y - 6 = 0$$

$$Y = 3, -2$$

$$Y = 3 = 3 \text{ years}$$

$$\text{Rate of interest} = 20\%$$

$$\text{Time} < \text{rate of interest}$$

So, compound interest considered in scheme B

$$z^2 - 10z + 24 = 0$$

$$z = 6, 4$$

Rate in scheme C is greater than rate of interest in scheme A.

So, rate of interest = 6%

$$\text{Interest earned by P in scheme A} = 15000 \times \frac{160}{100} = \text{Rs. 24000}$$

Let principal be 100x

$$\frac{24000}{240x} \times 340x = \text{Rs. 34000}$$

S75. Ans.(a)

Sol.

Let age of Z at time of marriage = a years

So, age of Y at time of marriage = (a - 3) years

And, age of Z at time when X born = (a + 3) years

Age of Y at time when X born = a years

Let, Age of X = n

Present age of Z = (a + 3 + n) years (given, at present X is 20 years younger than Y)

So, present age of Z = (23 + n) years

And present age of Y = (20 + n) years

ATQ -

$$\frac{23+n}{26+n} = \frac{10}{11}$$

$$253 + 11n = 260 + 10n$$

$$n = 7$$

So, Y & Z got married (7 + 3) = 10 years ago

S76. Ans.(a)**Sol.****Acid A Acid B**

1000 liters 500 liters

x liter of mixture is taken out and y liter of acid B is added.

Quantity of acid A = $1000 - \frac{2x}{3}$

Quantity of acid B = $500 - \frac{x}{3} + y$

Now z liter of mixture is taken out.

Quantity of acid A = $1000 - \frac{2x}{3} - z \left(\frac{1000 - \frac{2x}{3}}{1500 - x + y} \right)$

Quantity of acid B = $500 - \frac{x}{3} + y - z \left(\frac{500 - \frac{x}{3} + y}{1500 - x + y} \right)$

So,

$$500 - \frac{x}{3} - z \left(\frac{1000 - \frac{2x}{3}}{1500 - x + y} \right) + z \left(\frac{500 - \frac{x}{3} + y}{1500 - x + y} \right) = y$$

$$500 - \frac{x}{3} - \frac{z}{1500 - x + y} \left(1000 - \frac{2x}{3} - 500 + \frac{x}{3} - y \right) = y$$

$$500 - \frac{x}{3} - \frac{z}{1500 - x + y} \left(500 - \frac{x}{3} - y \right) = y$$

Only option A is satisfying the equation.

S77. Ans.(e)**Sol.**Daily wages of Man = $T \times P = PT$

ATQ,

$$PT + (N - T)2P = PT + 1200$$

$$\Rightarrow (N - T) 2P = 1200$$

When, $P = 100$

$$N - T = 6$$

And, when $P = 150$

$$N - T = 4$$

all of the above options given will be suitable.

S78. Ans.(d)**Sol.**

Given amount invested in each scheme be Rs. x

Then,

$$x \times \left(1 + \frac{r}{100} \right)^t - x = x \times \left(1 + \frac{p}{200} \right)^{2t} - x$$

$$\Rightarrow \left(1 + \frac{r}{100} \right)^t = \left(1 + \frac{p}{200} \right)^{2t}$$

$$\Rightarrow 1 + \frac{r}{100} = \left(1 + \frac{p}{200} \right)^2$$

$$\Rightarrow 1 + \frac{r}{100} = 1 + \frac{p^2}{40000} + \frac{p}{100}$$

$$\Rightarrow r - p = \frac{p^2}{400}$$

Option (iii) and (iv) will satisfy the above equation.

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S79. Ans.(e)**Sol.**

Probability for employee being female from office P

$$= \frac{1}{2} \times \frac{n}{n+5}$$

Probability for employee being female from office Q

$$= \frac{1}{2} \times \frac{8}{n+8}$$

ATQ -

$$\frac{1}{2} \left[\frac{n}{n+5} + \frac{8}{n+8} \right] = \frac{5}{9}$$

$$\frac{10}{9} = \frac{n(n+8) + 8(n+5)}{(n+8)(n+5)}$$

$$\frac{10}{9} = \frac{n^2 + 8n + 8n + 40}{n^2 + 13n + 40}$$

$$10n^2 + 130n + 40 = 9n^2 + 144n + 360$$

$$n^2 - 14n + 40 = 0$$

$$n^2 - 10n - 4n + 40 = 0$$

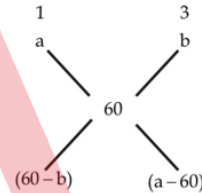
$$n(n - 10) - 4(n - 10) = 0$$

$$n = 10, 4$$

So, both I and II follow

S80. Ans.(b)**Sol.**

By allegation -

Start with $a > 60 > b$

$$(a - 60) = 3(60 - b)$$

 $(60 - b)$ is an integer and given a is multiple of 9

So, 'a' can take five integer values from 63 to 99 and these are (63, 72, 81, 90, 99)

S81. Ans.(d)

Sol. Among the given options, only (a) and (c) are correct with reference to the context of the given questions. While option (b) is incoherent because, for men, the extra time meant more rest, for women, it meant more time spent on housework. Refer to the fifth line of the first paragraph, "In India, both women and men reported an increase in unpaid work at home and a decrease in time spent on paid work, but that extra time translated to more rest for men and more time spent on chores for women."

S82. Ans.(b)

Sol. Among the given options, only statement (b) is correct with reference to the context of the given question. Refer to the fifth line of the second paragraph, "One of the hypotheses I had in my mind was that high-income countries tend to have nuclear families and may find childcare more pronounced as an issue."

S83. Ans.(e)

Sol. On referring to the third paragraph thoroughly, we can infer that all of the given statements are correct based on the information provided.

S84. Ans.(e)

Sol. Here, “magnitude” means the great size or extent of something.

- (a) enormity- the great or extreme scale, seriousness, or extent of something.
- (b) dimension- a measurable extent of a particular kind, such as length.
- (c) expanse- the distance to which something expands or can be expanded.
- (d) vastness- very great extent or size; immensity.

S85. Ans.(c)

Sol. The concerned sentence states that the study followed two additional World Bank papers on the importance of investing in childcare to build human capital and an update on how laws and regulations influence women's economic inclusion, including childcare. Thus, we can infer that “influence” is the most appropriate word to fill in the given blank.

- (a) conserve- protect from harm or destruction.
- (b) detriment- the state of being harmed or damaged.
- (c) influence- the power of causing an effect in indirect ways.
- (d) pragmatic- dealing with things sensibly and realistically.
- (e) dissenting- holding or expressing opinions that are at variance.

S86. Ans.(c)

Sol. On reading the starting lines of the third paragraph, we can infer that only statement (c) is correct with reference to the context of the given question. Refer to the starting lines of the third paragraph, “The shift of the burden to adolescent girls is worrying as they already shoulder a disproportionate amount of care burden compared to their male counterparts, in many low- and middle-income countries.”

S87. Ans.(b)

Sol. Here, “stimulate” means to encourage or arouse interest or enthusiasm.

- (a) animate- alive or having a life.
- (b) sedative- having a soothing or calming effect.
- (c) bracing- fresh and invigorating.
- (d) trigger- cause (a device) to function.
- (e) provoke- stimulate or give rise to a reaction or emotion.

S88. Ans.(b)

Sol. Among the given options, only statement (b) is correct with reference to the context of the given question. While the rest of the statements are incoherent. Refer to the fourth line of the second paragraph, “Due to the fact that most soils do not provide sufficient nitrogen for the economical production of fiber and seeds, the additional supplementation of nitrogen, phosphorus, potassium fertilizers is the key input in maintaining productive, profitable, and sustainable cropping industries.”

S89. Ans.(b)

Sol. Here, “sufficient” means enough to meet the needs of a situation or a proposed end.

- (a) generous- (of a thing) larger or more plentiful than is usual or necessary.
- (b) exiguous- very small in size or amount.
- (c) bountiful- large in quantity; abundant.
- (d) copious- abundant in supply or quantity.
- (e) plenteous- large in amount, or available in large amounts.

S90. Ans.(b)

Sol. Among the given options, “intermit” is the most appropriate meaning of the given phrase. Here, “pulling the plug” means to prevent something from happening or continuing.

- (a) resume- begin again or continue after a pause or interruption.
- (b) intermit- suspend or discontinue (an action or practice) for a time.
- (c) overhaul- overtake (someone), especially in a sporting event.
- (d) refurbish- renovate and redecorate (something, especially a building).
- (e) reiterate- say something again or a number of times, typically for emphasis or clarity.

S91. Ans.(d)

Sol. The given phrase means to resume something that has been interrupted.

S92. Ans.(d)

Sol. Here, “suitable” means right or appropriate for a particular person, purpose, or situation.

- (a) indelicate- having or showing a lack of sensitive understanding or tact.
- (b) outrageous- very bold and unusual and rather shocking.
- (c) scandalous- causing general public outrage by a perceived offence against morality.
- (d) befitting- appropriate to the occasion.
- (e) depraved- make (someone) immoral or wicked.

S93. Ans.(b)

Sol. There is an error in part (C) of statement (II) which contains the same type of error as the sentence itself. In the given sentence, “getting best out of it” should be replaced with “getting best out of them” as the sentence considers the word “employees” which makes a plural sense. Similarly, statement (II) also considers the roles and responsibilities of the employees, thus, “helps it chalk out their” should be replaced with “helps them chalk out their” as the term “employees” is a plural noun.

S94. Ans.(c)

Sol. There is an error in part (A) of statement (II) which contains the same type of error as the sentence itself. In the given sentence, "existence" should be replaced with "existing" as the former is a noun form while the latter is an adjective. Similarly, in statement (II), "contribution" should be replaced with "contribute" as the former is a noun form while the latter is a verb form.

S95. Ans.(d)

Sol. There is an error in part (C) of statement (I) which contains the same type of error as the sentence itself. In the given sentence, "employee" should be replaced with "employees" as the sentence indicates a plural sense. Similarly, the statement (I) also makes a plural sense, thus, "conclusion" should be replaced with "conclusions".

S96. Ans.(b)

Sol. There is an error in part (C) of statement (I) which contains the same type of error as the sentence itself. In the given sentence, "its" should be replaced with "their" as the sentence emphasizes the term "research problems" which forms a plural sense. Similarly, in statement (I), "its best level" should be replaced with "their best level" as the statement emphasizes the term "employees" which also forms a plural sense.

S97. Ans.(c)

Sol. There is an error in part (A) of statement (II) which contains the same type of error as the sentence itself. In the given sentence, "help" should be replaced with "helps" as the term "effective leadership" forms a singular noun. Similarly, in statement (II), "refer" should be replaced with "refers" as the subject "organization management" is given in the singular form.

S98. Ans.(b)

Sol. Among the given options, "sponsored by" is the most appropriate option to replace the incorrect one as the sentence is given in the past tense. Moreover, "Sponsored" will be followed by "by" as it is used in identifying the agent performing an action. While the rest of the options are incorrect.

S99. Ans.(d)

Sol. Among the given options, "consider" is the most appropriate option to replace the incorrect one as it is the correct form of the verb to be accompanied with "to". While "considerate" is an adjective form.

S100. Ans.(b)

Sol. Among the given options, "eradication" which means "the complete destruction of something" is the most appropriate option to replace the incorrect one as it is the correct noun form to comply with the grammatical aspect of the sentence. Moreover, "on" which is a preposition is often followed by a noun without a determiner. While "eradicate" is the verb form.

S101. Ans.(e)

Sol. The highlighted word given in the sentence is grammatically and contextually appropriate. Thus, no replacement is required.

S102. Ans.(e)

Sol. The highlighted word given in the sentence is grammatically correct. Thus, no replacement is required as all of the given options are incorrect.

S103. Ans.(b)

Sol. According to paragraph (A), this significant occasion makes it imperative for BIMSTEC leaders to reaffirm their commitments to strengthening collaborations for the security and development of all. Since BIMSTEC is a multi-sectoral technical and economic cooperation initiative, the next paragraph in succession should be option (b), which highlights regional strategic and economic integration and the creation of a unique ecosystem for successful collaborations among member states. While the rest of the options are incoherent to fill in the blank space.

S104. Ans.(e)

Sol. Each of the given options addresses a different subject. As a result, all of the given alternatives appear incoherent for filling in the blank space, as neither of them sounds cohesive when compared to the consistency and compatibility of the two paragraphs given in the question.

S105. Ans.(a)

Sol. Paragraph (B) given in the question states that a social media giant located in the United States was interrogated over accusations that hate speech is promoted on its platform. Thus, we can deduce that an appropriate authority must have questioned the concerned social media organization over the stated allegations. As a result, option (a) seems the most appropriate one when compared to the consistency and compatibility of the two paragraphs given in the question. While the rest of the options are incoherent to fill in the blank space.

S106. Ans.(d)

Sol. Among the given options, "come down on" is opposite in meaning to the highlighted one and can also be used in a contextual manner if substituted for the highlighted phrasal verb. While "take his hat off" means to give someone praise or credit.

(a) fork out with- pay money for something, especially reluctantly.

(b) take the mickey of- make fun of someone, usually in an unkind way.

(c) put up with- tolerate or endure something.

(d) come down on- criticize or punish someone harshly.

(e) bear with- be patient or tolerant with someone.

S107. Ans.(b)

Sol. Among the given options, “make a go of” is opposite in meaning to the highlighted one and can also be used in a contextual manner if substituted for the highlighted phrasal verb. While “pick holes in” means to mention all mistakes or faults in something.

- (a) tear a strip off- to talk angrily to someone who has done something wrong.
- (b) make a go of- be successful in (something).
- (c) fall through- come to nothing; fail.
- (d) look down upon- to think of or treat someone or something as unimportant.
- (e) haul over the coals- criticize sharply.

S108. Ans.(c)

Sol. Among the given options, “stand over” is opposite in meaning to the highlighted one and can also be used in a contextual manner if substituted for the highlighted phrasal verb. While “push on” means to continue on a journey.

- (a) gain ground- become more popular or accepted.
- (b) make haste- hurry; hasten.
- (c) stand over- be postponed to be dealt with at a later date.
- (d) turn out- go somewhere in order to do something.
- (e) get through- pass a difficult or testing experience or period.

S109. Ans.(e)

Sol. Among the given options, “bottle up” is opposite in meaning to the highlighted one and can also be used in a contextual manner if substituted for the highlighted phrasal verb. While “bump up” means to increase something.

- (a) give away- give something freely as a gift or donation.
- (b) run after- persistently seek to acquire or attain something.
- (c) fall upon- attack someone fiercely or unexpectedly.
- (d) break out- (of war, fighting, or similarly undesirable things) start suddenly.
- (e) bottle up- keep someone or something trapped or confined.

S110. Ans.(d)

Sol. Among the given options, “worn away” is opposite in meaning to the highlighted one and can also be used in a contextual manner if substituted for the highlighted phrasal verb. While “held over” means to postpone something.

- (a) set about- start doing something with vigour or determination.
- (b) taken up- to begin to occupy something.
- (c) kept off- to stop or prevent (someone or something) from being on (something).
- (d) worn away- to gradually disappear.
- (e) come out- (of a fact) emerge; become known.

S111. Ans.(b)

Sol. Among the given options, “DBEACF” is the correct sequence of the highlighted words to make a grammatically correct and contextually coherent sentence. The sentence thus formed would be “Effective communication is the prowess of properly conveying one’s ideas and thoughts, and it plays a crucial role in the success or failure of an organization, as individuals need to communicate successfully at work for improved transparency and clarity.”

S112. Ans.(e)

Sol. All of the highlighted words are placed in their proper positions. Thus, no rearrangement is required.

S113. Ans.(c)

Sol. Among the given options, only “A-F and B-E” can be joined to form grammatically and contextually correct sentences. The sentences thus formed would be:

- (i) Agility is the capacity to adjust to change or respond to an external stimulus quickly.
- (ii) Process management is a key distinction and most businesses agree that it helps them increase revenue.

S114. Ans.(a)

Sol. Among the given options, only “A-E and B-D” can be joined to form grammatically and contextually correct sentences. The sentences thus formed would be:

- (i) Since flexibility is one of the most critical principles of organizational innovation, business processes should be simple enough to accommodate change at any level.
- (ii) Employee satisfaction can be achieved by framing an incentive plan for employees, which can be done by keeping motivation in mind for the benefit of the employees.

S115. Ans.(e)

Sol. None of the given sentences/phrases can be joined to form a grammatically and contextually correct sentence.

