

Directions (1-7): Read the given passage carefully and answer the following questions. Certain parts have been highlighted to help answer the questions.

It takes a lot to make a splash in the world of science when people are excited about the discovery of vaccines against SARS-CoV-2. The success of Artificial Intelligence (AI) in reliable and consistent predictions of structures of proteins with great accuracy is one such splash. The AI-based program, AlphaFold2, from the company DeepMind, has stunned the world by accurately and quickly predicting the structure of proteins, starting from the sequences of amino acids that constitute them.

Proteins are ubiquitous in all organisms. By comparing and analysing protein structures, it is possible to get ideas about biological evolution, diseases, defence mechanisms, etc. This explains the human quest for finding the structures of proteins. In 1972, Christian B. Anfinsen won the Nobel Prize in Chemistry for his experiments that showed that a protein could fold into its structure based on the information contained in the sequence of amino acids. Since then, scientists around the world have been trying to computationally predict protein structures.

Only about 60 years ago, Max Perutz and others experimentally determined the first protein structures of myoglobin and haemoglobin. They did this through a method called X-ray crystallography that uses protein crystals and X-rays. Knowing the structure of haemoglobin helped people understand how it is able to perform its function of transporting oxygen from the lungs to the cells in the body. It also showed how changing a single amino acid can cause sickle cell anaemia. Just as knowing the shape of the human nose or the crow's beak helps understand its function, knowing a protein structure helps recognise how it functions and how a defect may lead to malfunctioning.

Proteins, along with nucleic acid sequences that make a genome, form the basis of all organisms. *Technology has advanced so much that it is routine and inexpensive to sequence genomes.* The sequences of amino acids that form the proteins are encoded in genes which are part of the genome. Therefore, translating and getting the sequences of proteins is easy. But getting the three-dimensional structures of proteins was so far possible only experimentally through time-consuming and expensive techniques of X-ray crystallography, nuclear magnetic resonance and cryo-electron microscopy.

In 2018, a new player called AlphaFold from DeepMind joined the game breathing 'deep learning' AI techniques into the prediction algorithm. It did well with a modest score of around 60 across categories. With the **subsequent** publication of their method, this year saw a large number of the participants including the deep learning procedures in their algorithms at different stages. But DeepMind's AlphaFold team led by Demis Hassabis and John Jumper changed tack and switched to 'attention-based' deep learning which has been successful in image and speech recognition. This method used in AlphaFold2 is analogous to how people tend to solve jigsaw puzzles paying attention to the pieces that fit locally while keeping the whole picture in mind.

It was a remarkable success. The median score was at the level of around 90 — something never reached before. This, according to John Moult, meant that the problem of structure **prediction** for **compact** single module proteins is essentially solved. Once the details of the method are spelt out in a publication, more scientists will take this up to predict even structures of protein complexes that form molecular machines in cells.

Q1. What are the benefits of protein structure analysis and comparison?

- (a) It is possible to get idea of biological evolution
- (b) It is possible to get idea of diseases
- (c) It is possible to get idea of defence mechanisms in humans
- (d) Only (a) and (c)
- (e) All of the above (a), (b) and (c)

Q2. Which of the following method according to the passage will be more convenient to predict the structure of a protein?

- (a) X-ray crystallography
- (b) Nuclear magnetic resonance
- (c) 'Attention-based' deep learning
- (d) Only (a) and (b)
- (e) All of the above (a), (b) and (c)

Q3. Which of the following statement(s) is/are correct in context of the passage?

- (i) Getting the three-dimensional structures of proteins is possible only experimentally through techniques of X-ray crystallography, nuclear magnetic resonance and cryo-electron microscopy.
 - (ii) Genome sequencing makes it easier to translate and obtain the sequences of proteins
 - (iii) Predicting the protein structure will help in learning the biological evolution.
- (a) Only (iii)
 - (b) Only (ii)
 - (c) Both (i) & (iii)
 - (d) Both (ii) & (iii)
 - (e) All of these

Q4. Which one of the following is the most appropriate synonym of the word- **PREDICTION**?

- (a) Habitual
- (b) Rain-check
- (c) Forecast
- (d) Feast
- (e) Adherence

Q5. Which one of the following is the most appropriate antonym of the word- **SUBSEQUENT**?

- (a) Sequential
- (b) Previous
- (c) Ensuing
- (d) Resultant
- (e) Posterior

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Q6. What does the sentence- “*Technology has advanced so much that it is routine and inexpensive to sequence genomes*” infer in the context of the passage?

- (a) It is not economical to put technology in use for genome sequencing since the technology is advanced
- (b) Without advancement in technology it would not be possible to sequence the genomes
- (c) Earlier it was a costly and tedious affair to sequence a genome, but Artificial intelligence has advanced now, making task easier.
- (d) Advent of Artificial intelligence has made genome sequencing systematic and affordable
- (e) Both (c) and (d)

Q7. Which one of the following is the most appropriate synonym of the word- **COMPACT**?

- (a) Loose
- (b) Consolidate
- (c) Enlarge
- (d) Expand
- (e) Disperse

Directions (8-12): In each of the following questions given below a sentence is given with three words in bold. Choose the option which gives the correct sequence of these words to make the sentence grammatically and contextually correct.

Q8. The Supreme Court in its recent **acquisition (A)** upheld the land **highway (B)** deal related to Chennai-Salem **verdict (C)**.

- (a) ACB
- (b) BCA
- (c) CAB
- (d) CBA
- (e) No correction required

Q9. The Indian **structure (A)** of political **form (B)** is democratic, pluralistic and **parliamentary (C)**.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) CBA
- (e) No correction required

Q10. The High court has shown **livelihood (A)** sensitivity to possible **concerns (B)** and ecological **greater (C)**.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) CBA
- (e) No correction required

Q11. While **states(A)** such as West Bengal and Uttar Pradesh feature **prominently(B)** in the media for notorious **reasons(C)**.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) CBA
- (e) No correction required

Q12. The country needs to **retain (A)** its financial **earmarked(B)** for nutrition schemes it has **commitments (C)**.

- (a) ACB
- (b) BAC
- (c) CAB
- (d) CBA
- (e) No correction required

Q13. In the following question, four sentences are given which may be grammatically and contextually incorrect. You need to find the one which has no error and mark that as your answer. If all the given sentences are incorrect then mark option (E) i.e., 'all are incorrect' as your answer.

- (a) Ancient India has have made contributions to several complex and present-day scientific achievements
- (b) If one is to look around the a new report, by Stanford University, U.S. on the world ranking of scientists it paints a positive picture
- (c) There is no other database that systematically ranks all the scientists across the world with such accuracy and depth.
- (d) In certain disciplines, a largest number of scientists have secured a place in the list, whereas in some disciplines, only one scientist could be included.
- (e) All are incorrect.

Q14. In the following question, four sentences are given which may be grammatically and contextually incorrect. You need to find the one which has no error and mark that as your answer. If all the given sentences are incorrect then mark option (E) i.e., 'all are incorrect' as your answer.

- (a) The vaccines is here but they'll be no good without willing arms to take shots
- (b) Rumours flying around on social media don't make the task easiest.
- (c) Olympic athletes usually like practicing, competing, and eating ice cream sandwiches.
- (d) if you experience side effects after taking your vaccine shot, it nothing to worry about.
- (e) All are incorrect

Q15. In the following question, four sentences are given which may be grammatically and contextually incorrect. You need to find the one which has no error and mark that as your answer. If all the given sentences are incorrect then mark option (E) i.e., 'all are incorrect' as your answer.

- (a) The aim is to improve the overall signal availability of navigation system.
- (b) The initiative is launched after the US refused to give India crucial GPS information during the Kargil war in 1999.
- (c) It is powered by a constellation of seven satellites, all of whose are positioned around 36,000 kilometres from Earth.
- (d) Europe's Galileo system, which began operations in 2016, have a constellation of 30 satellites powering its navigation.
- (e) All are incorrect

Q16. In the following question, four sentences are given which may be grammatically and contextually incorrect. You need to find the one which has no error and mark that as your answer. If all the given sentences are incorrect then mark option (E) i.e., 'all are incorrect' as your answer.

- (a) He asked that his transactions were completely disclosed and transparent.
- (b) The CEO says that he did not have the clue why the matter suddenly popped up
- (c) The song is showed after Charles begins to resent her popularity
- (d) Interviews are one way to collect data and allow researchers to gain an in-depth understanding of participants.
- (e) All are incorrect.

Q17. In the following question, four sentences are given which may be grammatically and contextually incorrect. You need to find the one which has no error and mark that as your answer. If all the given sentences are incorrect then mark option (E) i.e., 'all are incorrect' as your answer.

- (a) A new survey on asthma patients has revealed that awareness about the Covid-19 pandemic is high among young asthmatic adults.
- (b) With people online makes jokes and memes about the same, the teacher also joined.
- (c) The old Parliament house given direction to the country post-independence, the new one would be a witness to the making of a self-reliant India.
- (d) We, the people of India, together builds this new building of Parliament
- (e) All are incorrect

Directions (18-22): A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner. If the word has been used correctly in all the statements, mark (E), "All of these", as your answer.

Q18. IMPERFECT

- (i) Quartz may be an imperfect form of carbon, but it is widely found in North-East India.
 - (ii) The sex-ratio of our country is imperfectly disturbed, with Kerala at highest and Haryana at lowest.
 - (iii) The policy design is perfect, but its imperfections will be judged once it is implemented.
- (a) Only (i)
 - (b) Only (ii)
 - (c) Only (iii)
 - (d) Both (i) and (ii)
 - (e) All of these

Q19. FOUNDATION

- (i) The PM laid the foundation stone of new parliament building
 - (ii) If taking a taxi costs too much, you can alternatively use Uber, which may be foundation.
 - (iii) The 1857 revolt kept the foundation of the future Indian National Movement.
- (a) Only (i)
 - (b) Only (ii)
 - (c) Only (iii)
 - (d) Both (i) and (iii)
 - (e) All of these

Q20.SELDOM

- (i) The farmers seldom see their produce outside the mandis
 - (ii) There have been incidents related to robbery but they are seldom reported
 - (iii) Rakesh always feel he is alone and seldom.
- (a) Only (i)
 - (b) Only (ii)
 - (c) Only (iii)
 - (d) Both (i) and (ii)
 - (e) All of these

Q21. ERUPT

- (i) There was an erupt ending of the movie which was off-putting.
 - (ii) After constant nagging, finally one day my anger erupted into uncontrollable rage.
 - (iii) The most famous volcano, Mt. Etna erupted in Italy last week.
- (a) Only (i)
 - (b) Only (ii)
 - (c) Only (iii)
 - (d) Both (ii) and (iii)
 - (e) All of these

Q22.MARGINAL

- (i) There was a marginal dip in the temperature after yesterday's rain.
 - (ii) The RBI kept the Repo rate constant, but marginally increased the MCLR.
 - (iii) The ship sank because the crew knew only marginal safety measures.
- (a) Only (i)
 - (b) Only (ii)
 - (c) Only (iii)
 - (d) Both (i) and (ii)
 - (e) All of these

Directions (23-25): Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is 'No error', the answer is (E). (Ignore errors of punctuation, if any.)

- Q23. The President of India (A) /constitutional power is limitless (B) / but it is the PM who is, (C)/ indeed powerful (D) /No Error (E)
- (a) A
 - (b) B
 - (c) C
 - (d) D
 - (e) E

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Q24. Many of the questions (A)/ given in this question paper (B) /are so difficult that (C)/ many of the students may fail (D)/ No error (E)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Q25. The blind's life (A)/ is really very miserable (B)/ because they can't see (C) what happens around them. (D)/ No Error (E)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Directions (26-30): In each of the following questions below, there are two blanks in each sentence. Below each of the sentence, there are two words in every option to be filled respectively. You have to choose the option which gives grammatical and contextual meaning to the sentences when used respectively.

Q26. The proposal offered a _____assurance that government _____ at minimum support price would remain.

- (a) written, bureaucracy
- (b) nuisance, agency
- (c) written, procurement
- (d) verbal, cleared
- (e) taken, grant

Q27. _____ company presented complete _____ from their ongoing Phase 3 trials.

- (a) Neither, sequence
- (b) Neither, data
- (c) Either, propaganda
- (d) Futile, agenda
- (e) Prospective, diagnosis

Q28. Without the _____ being notified, the Act remains ineffective, quoted the _____.

- (a) rules, Ministry
- (b) paragraphs, connotations
- (c) paper, newspaper
- (d) comprise, journalist
- (e) chaos, minister

Q29. Lipids are relatively ____ prone to degradation and have been ____ in pottery from archaeological contexts.

- (a) more, filled
- (b) seconded, drawn
- (c) abhorrent, drastic
- (d) least, invented
- (e) less, discovered

Q30. The laundry room comprises two _____ machines and over half-a-dozen plastic _____.

- (a) automatic, dolls
- (b) dishwasher, plates
- (c) washing, tubs
- (d) manual, cups
- (e) handmade, ceramics

Directions (31-35): Study the following information carefully and answer the questions given below:

P, Q, R, S, T, U and V are seven boxes kept one above the other not necessarily in the same order. Only three boxes are kept above box P. Two boxes are kept between box P and box T. Only one box is kept between box S and box V. Box S is kept above V. Three boxes are kept between box S and box Q. Box R is kept immediately above box V.

Q31. How many boxes are kept above box Q?

- (a) One
- (b) Two
- (c) Four
- (d) Five
- (e) Three

Q32. Which box is kept at the topmost position?

- (a) R
- (b) S
- (c) T
- (d) P
- (e) None of These

Q33. Box V is kept immediately above which box?

- (a) Q
- (b) U
- (c) T
- (d) P
- (e) None of these

Q34. Which box is kept at 6th position from bottom?

- (a) V
- (b) T
- (c) R
- (d) U
- (e) S

Q35. Number of boxes kept above box V is same as number of boxes kept below which box?

- (a) U
- (b) S
- (c) P
- (d) Q
- (e) None of These

Directions (36-40): Study the following information carefully and answer the questions given below:

P 8 Z 8 # @ V 3 B 0 C N * 9 @ B 4 D % @ 8 4 D # 2 D K @ 9 P F & 0 K R #

Q36. How many numbers are there which are immediately preceded by a Symbol and followed by a Letter?

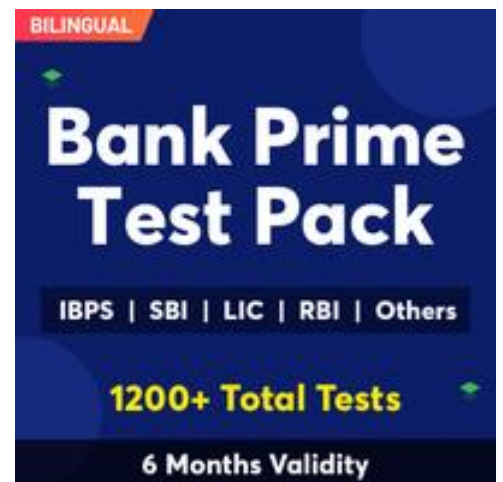
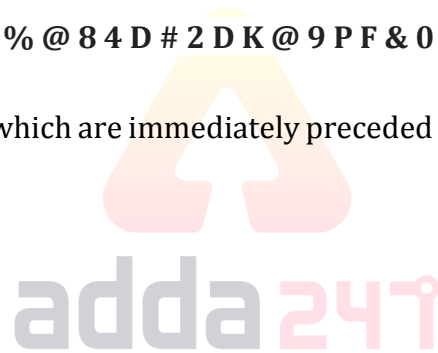
- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None

Q37. How many letters are there which are immediately preceded by a Symbol and Followed by a Number?

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

Q38. How many Symbols are there which are immediately preceded by a letter and Followed by a Number?

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



Q39. If symbol '%' is added after every number that has been preceded by a letter than which element is tenth from right end?

- (a) %
- (b) B
- (c) 0
- (d) 9
- (e) K

Q40. Which element is second to right of the one that is tenth element from the right end?

- (a) %
- (b) B
- (c) 0
- (d) 9
- (e) T

Directions (41-45): Study the information carefully and answer the questions given below.

Eight persons i.e. P, Q, R, S, T, U, V and W are sitting in a row facing north direction but not necessarily in the same order. They like different colours i.e. Blue, Black, Yellow, Green, Orange, Pink, Grey and White but not necessarily in same order.

S sits at one of the extreme ends of the row. Two person sits between S and the one who likes yellow colour. The person who likes green colour is immediate left of the person who likes yellow colour. U likes White colour. P sits second to the right of person, who likes green colour. Two person sits between P and R. U and W are sitting together. There are four persons sitting between P and the one who likes grey colour. V likes pink colour. The person who likes blue colour sits second to the right of the one who likes orange colour. T sits to the immediate left of Q.

Q41. Who sits to the immediate left of S?

- (a) Q
- (b) V
- (c) T
- (d) W
- (e) P

Q42. How many persons are sitting between V and the person who likes Black?

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

Q43. Who among the following sits 3rd to the right of U?

- (a) The one who likes yellow
- (b) p
- (c) The one who likes green
- (d) S
- (e) Can't be determined

Q44. Four of the following five are alike in certain way and so form a group, find the one that does not belong to that group?

- (a) V-yellow
- (b) P-green
- (c) W-black
- (d) T-orange
- (e) P-pink

Q45. If U is related to Q in a certain way and R is related to P, in the same way, then which of the following is related to T?

- (a) Q
- (b) S
- (c) V
- (d) T
- (e) W

Directions (46-50): In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts

Q46. Statements:

Some river are sea.
No sea is ocean.
All oceans are beautiful.

Conclusion

I: some beautiful are not sea

II: No sea is beautiful

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q47. Statements:

All logic are error.
All errors are chair.
All chairs are table.

Conclusion

I: All table are chair

II: All errors are logic

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.



Q48. Statements:

No red is green.

No green is yellow.

All blue is yellow

Conclusion

I: All green is being blue is a possibility

II: All red is being yellow is a possibility

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q49. Statements:

Some steel are pure.

All pure is metal.

All metals are zinc.

Conclusion

I: Some metals are steel

II: Some pure are zinc is possibility

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q50. Statements:

Some pen are ram.

All ram are pencil.

Some pencil are sheet.

Conclusion

I: Some sheet are not pen

II: All sheet are pen

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.



Directions (51-55): In these questions, relationship between different elements are shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Q51.

Statements:

$F \leq G < I = T \geq O > S, T \leq P > R$

Conclusion

I: $P \leq F$

II: $I > R$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q52.

Statements:

$G \leq E > H = F < Q \leq R = A < P, E > D$

Conclusion

I: $A > D$

II: $Q > H$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q53.

Statements:

$D > F < H = U \geq O \geq L, U > X, H \leq E$

Conclusion

I: $X < E$

II: $L \leq E$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.



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Q54.

Statements:

$J < H \geq K \geq U = L \geq D = O < P$

Conclusion

I: $H > O$

II: $H = O$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q55.

Statements:

$H > E = L < O \leq M = R \leq A = I \leq S \geq Y = N$

Conclusion

I: $S > E$

II: $I \geq O$

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Directions (56-60): Study the information carefully and answer the questions given below:

Eight friends i.e. P, Q, R, S, T, U, V and W like different colours viz. Grey, White, Yellow, Pink, Black, Blue, Orange and Green but not necessarily in same order and each friend works in different companies i.e. iPhone, Samsung, Mi, Vivo, Motorola, Oppo, Nokia and LG.

T likes blue colour and works in Mi. U works in Nokia. The person who likes orange colour does not work in LG, Samsung and Nokia. V does not like Oppo. P likes grey and works in iPhone. R likes yellow colour. S works in Vivo. W works in LG. Q does not work in Motorola. The person who works in Nokia does not like green colour. The person who likes white colour works in Oppo. S does not like black, Orange and green colour.

Q56. In which of the following company does Q works?

- (a) Samsung
- (b) Nokia
- (c) LG
- (d) Vivo
- (e) None of these

Q57. Who among the following person likes orange colour?

- (a) Q
- (b) W
- (c) V
- (d) S
- (e) Can't be determined

Q58. Who among the following person likes green colour?

- (a) The one who works in LG
- (b) V
- (c) R
- (d) S
- (e) None of these

Q59. Which of the following combinations of Person and colour is correct?

- (a) P-White
- (b) Q-Yellow
- (c) T-Black
- (d) V-Orange
- (e) W-Blue

Q60. Who among the following person likes pink colour?

- (a) S
- (b) U
- (c) V
- (d) T
- (e) None of these



Directions (61-65): Read the following information carefully and answer the questions given below:

In a certain code language-

"note application job post" is coded as "cz nc st bd"

"book form wise post" is coded as "pt rs nc dp"

"book job note logic" is coded as "bd ms pt st"

"application logic wise master" is coded as "cz dp ms ce"

Q61. What is the code for 'application'?

- (a) st
- (b) bd
- (c) ms
- (d) ns
- (e) none of these

Q62. What is the code for 'post'?

- (a) nc
- (b) ms
- (c) cz
- (d) bd
- (e) None of these.

Q63. Which of the following is coded as 'bd'?

- (a) note
- (b) application
- (c) job
- (d) logic
- (e) Either (a) or (c)

Q64. What can be the code for "wise form logic letter"?

- (a) dp rs ms nc
- (b) rs mz ce dp
- (c) dp rs ms fm
- (d) pt st nc ce
- (e) None of these.

Q65. What is the code for 'master post'?

- (a) nc cz
- (b) nc ce
- (c) bd st
- (d) rs dp
- (e) None of these



Q66. A seller mixed two variety of rice (P & Q) costing Rs. 160 & Rs. 240 respectively. If in mixture, Q is 200% more than that of P and sold this mixture at the Rs. 286, then find the profit percent of seller?

- (a) 30%
- (b) 25%
- (c) 35%
- (d) 40%
- (e) 20%

Q67. Investment of Golu is 25% more than Bholu. If profit share of Bholu is Rs. 7500, out of total profit of Rs. 22500, then find ratio of time period of investment of Bholu to Golu?

- (a) 5 : 7
- (b) 5 : 6
- (c) 5 : 8
- (d) 5 : 9
- (e) 5 : 11

Q68. A and B get 48% & 33% marks in an exam. If A gets 60 marks more than passing marks and B gets 15 marks less than passing marks and C gets 54% marks, then find C gets how much more marks than passing marks?

- (a) 90
- (b) 55
- (c) 45
- (d) 70
- (e) 65

Q69. A man invested his saving at the rate of 15% p.a. for two years at SI, if man invested his saving at the rate of 20% p.a. for two years on CI compounding annually then man received Rs. 280 more interest. Find saving of man?

- (a) 1800 Rs.
- (b) 2400 Rs.
- (c) 2000 Rs.
- (d) 1600 Rs.
- (e) 1200 Rs.

Q70. A is 40% more efficient than B. If C is 20% less efficient than B and A, B and C working together can complete a work in 30 days, then find in how many days B & C working together can complete the same work?

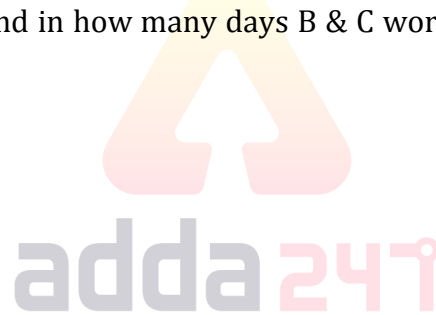
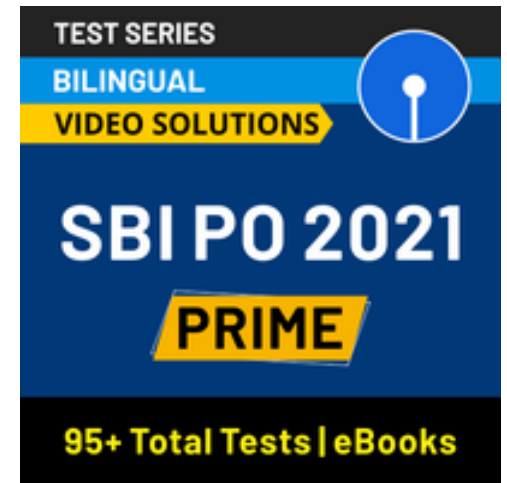
- (a) $51 \frac{1}{3}$ days
- (b) $49 \frac{1}{3}$ days
- (c) $47 \frac{1}{3}$ days
- (d) $45 \frac{1}{3}$ days
- (e) $53 \frac{1}{3}$ days

Directions (71-75): Each of the following questions below consists of a question and two statements numbered I and II given. You have to decide whether the data provided in the statements is sufficient to answer the questions.

Give answer

Q71. Find the cost price of article by shopkeeper on selling the article at Rs. 240?

- (I) If the article sold at 25% more the profit earned will be Rs. 40.
- (II) Marked price of article is Rs. 400 and profit% is equal to discount% and profit% is 40%.
- (a) if the data given in statement, I alone is sufficient to answer the question while the data in statement II alone is not sufficient to answer the question.
- (b) if the data given in statement II alone is sufficient to answer the question while the data in statement, I alone is not sufficient to answer the question.
- (c) if the data either in statement I alone or in statement II alone is sufficient to answer the question.
- (d) If the data in neither statement I nor II is sufficient to answer the question.
- (e) If the data in both statements I and II together is necessary to answer the question.



Q72. Find the volume of right circular cone?

(I) Height of cone is 100% more than radius of cone.

(II) Area of base of cone is 154 cm^2 .

(a) if the data given in statement, I alone is sufficient to answer the question while the data in statement II alone is not sufficient to answer the question.

(b) if the data given in statement II alone is sufficient to answer the question while the data in statement, I alone is not sufficient to answer the question.

(c) if the data either in statement I alone or in statement II alone is sufficient to answer the question.

(d) If the data in neither statement I nor II is sufficient to answer the question.

(e) If the data in both statements I and II together is necessary to answer the question.

Q73.

Find the value of $2^x \times 3^y$

(a) Sum of value of x and y is 8.

(b) Product of value of x & y is 7.

(a) if the data given in statement, I alone is sufficient to answer the question while the data in statement II alone is not sufficient to answer the question.

(b) if the data given in statement II alone is sufficient to answer the question while the data in statement, I alone is not sufficient to answer the question.

(c) if the data either in statement I alone or in statement II alone is sufficient to answer the question.

(d) If the data in neither statement I nor II is sufficient to answer the question.

(e) If the data in both statements I and II together is necessary to answer the question.

Q74. Find the speed of boat in still water?

(I) Time taken by boat to cover 64 km in downstream is half the time taken by same boat to cover same distance in still water.

(II) Speed of stream is 5 km/hr

(a) if the data given in statement, I alone is sufficient to answer the question while the data in statement II alone is not sufficient to answer the question.

(b) if the data given in statement II alone is sufficient to answer the question while the data in statement, I alone is not sufficient to answer the question.

(c) if the data either in statement I alone or in statement II alone is sufficient to answer the question.

(d) If the data in neither statement I nor II is sufficient to answer the question.

(e) If the data in both statements I and II together is necessary to answer the question.

Q75. In a box three types of balls are there, Black, Red and White. If no. of white balls is given then find out the probability of getting one white ball.

(I) Probability of getting one Red ball is given.

(II) Probability of getting one black ball is given.

(a) if the data given in statement, I alone is sufficient to answer the question while the data in statement II alone is not sufficient to answer the question.

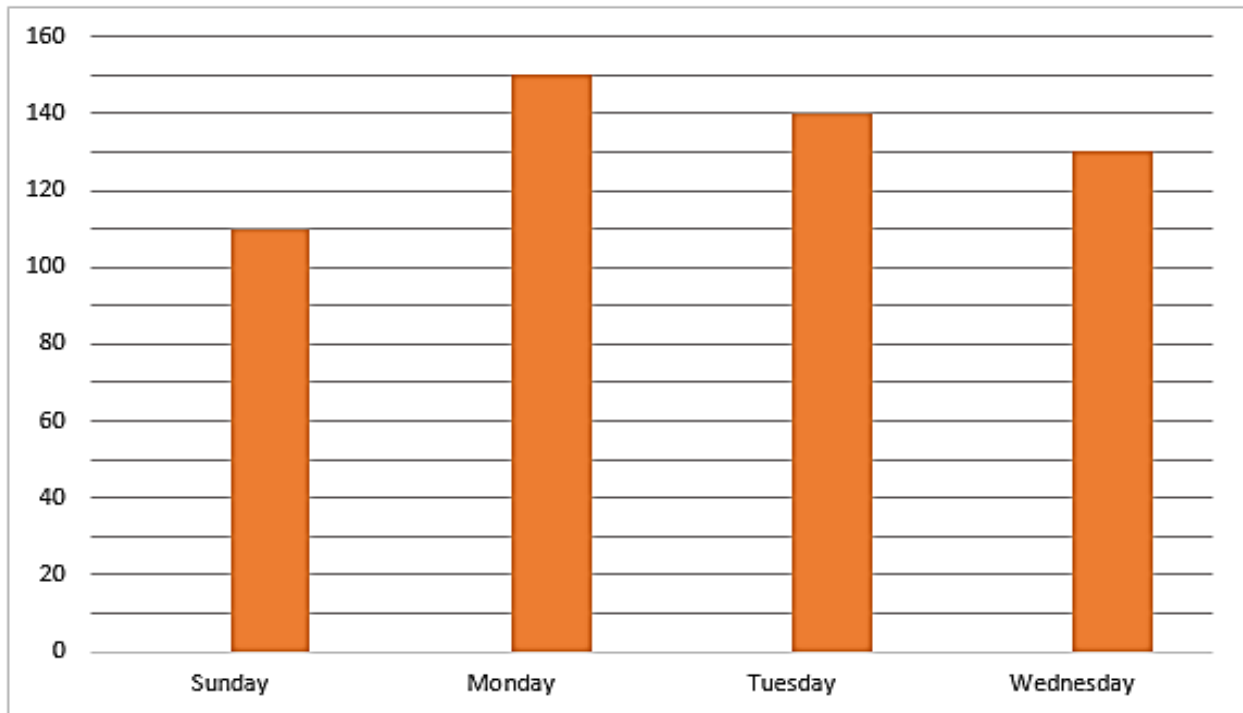
(b) if the data given in statement II alone is sufficient to answer the question while the data in statement, I alone is not sufficient to answer the question.

(c) if the data either in statement I alone or in statement II alone is sufficient to answer the question.

(d) If the data in neither statement I nor II is sufficient to answer the question.

(e) If the data in both statements I and II together is necessary to answer the question.

Directions (76-80): The bar graph given below shows number of people who visited to a stadium on four different days of a week. Table shows number of females visited to stadium out of total people. Read the data carefully and answer the questions given below.



Days	Female
Sunday	52
Monday	66
Tuesday	64
Wednesday	46



Q76. Find the ratio of total no. of males who visited stadium on Sunday & Wednesday together to total no. of females who visited stadium on Monday & Tuesday together?

- (a) 81 : 65
- (b) 71 : 65
- (c) 71 : 95
- (d) 71 : 55
- (e) None of these

Q77. Find the difference between average no. of females who visited stadium on Sunday & Tuesday together and average no. of male who visited stadium on Monday & Wednesday?

- (a) 24
- (b) 8
- (c) 38
- (d) 26
- (e) 18

Q78. Total no. of males who visited to stadium on Tuesday is what percent less than total no. of males who visited stadium on Monday (approximate)?

- (a) 4.5%
- (b) 12.5%
- (c) 11.5%
- (d) 15%
- (e) 9.5%

Q79. Total people who visited stadium on Friday are 20% more than that on Monday and total male who visited to stadium on Friday are 25% more than total males who visited to stadium on Monday. Find number of females who visited stadium on Friday?

- (a) 55
- (b) 75
- (c) 65
- (d) 50
- (e) 45

Q80. Total no. of people who visited stadium on Sunday and Wednesday together is what percent more than total no. of males who visited stadium on Monday & Tuesday together?

- (a) 40%
- (b) 35%
- (c) 50%
- (d) 60%
- (e) 80%

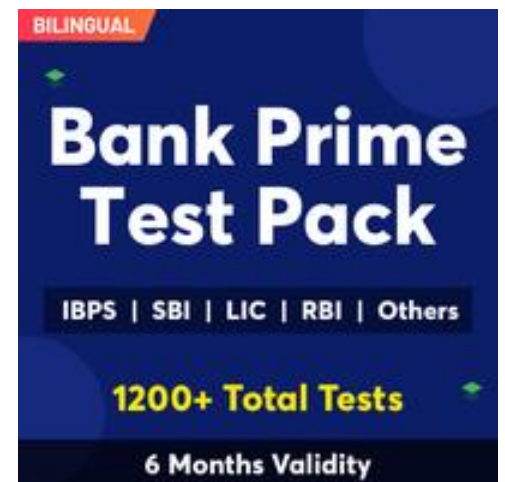
Directions (81-85): What approximate value should come in the place of question (?) mark.

Q81. $28.01\% \text{ of } 224.99 + (9.01)^2 = ?^2$

- (a) 8
- (b) 16
- (c) 24
- (d) 12
- (e) 6

Q82. $\frac{?}{18.01} + (14.01)^2 = (15.01)^2 - \sqrt[3]{124.99}$

- (a) 432
- (b) 412
- (c) 402
- (d) 442
- (e) 472



Q83. $32.01 \times ? + (18.01)^2 = 80.01\% \text{ of } 1404.99$

- (a) 35
- (b) 25
- (c) 15
- (d) 45
- (e) None of these

Q84. $56.01\% \text{ of } ? + (11.99)^2 = 68.01\% \text{ of } 499.99$

- (a) 250
- (b) 300
- (c) 150
- (d) 450
- (e) 350

Q85. $?^3 \times 18.08 + \sqrt{625.01} = 2274.98$

- (a) 15
- (b) 25
- (c) 35
- (d) 5
- (e) 45

Q86. In a mixture of Milk and water, quantity of milk is $66\frac{2}{3}\%$ of quantity of water. If in 180 ml mixture, 30 ml more milk added then, what would be the percentage of milk in the new mixture?

- (a) $34\frac{1}{7}\%$
- (b) $35\frac{1}{6}\%$
- (c) $17\frac{1}{2}\%$
- (d) $50\frac{4}{7}\%$
- (e) $48\frac{4}{7}\%$

Q87. Rahul's present age is $\frac{4}{7}$ th of his father's present age and four times his sons age three years ago. If the average of the present age of all three is 33 years then, what is the difference between the Rahul's son's present age and Rahul's father's present age?

- (a) 43
- (b) 45
- (c) 40
- (d) 32
- (e) 41

Q88. Length of rectangle is three times of side of square. If breadth of rectangle is 12 cm and perimeter of rectangle is 36 cm more than perimeter of square, then find the sum of area of rectangle and area of square?

- (a) 242 cm^2
- (b) 252 cm^2
- (c) 232 cm^2
- (d) 262 cm^2
- (e) 278 cm^2

Q89. Ratio of number of green, red and white ball in the bag is 3: 4: 5 and when two balls are drawn, probability of being it exactly one red and one white ball is $\frac{2}{7}$. Find the probability of getting red balls when two balls are drawn.

- (a) $\frac{14}{107}$
- (b) $\frac{3}{35}$
- (c) $\frac{11}{105}$
- (d) $\frac{3}{34}$
- (e) $\frac{14}{111}$

Q90. Ratio of upstream speed to that of downstream speed is 3:5. If speed of boat in still water is 24 km/hr then in how much time boat will cover 36 km in upstream and 60 km in downstream together?

- (a) 4 hours
- (b) 5 hours
- (c) 3 hours
- (d) 6 hours
- (e) 4.5 hours

Directions (91-95): Deepak, Dharam and Shivam invested in partnership for one year. Ratio of investment of Deepak, Dharam and Shivam for first 6 months, next four month and for remaining time is 3:2:3, 2:5:3 and 4:3:3 respectively. Amount invested by Deepak in first 6 months, Dharam in next four month and by Shivam in remaining time is Rs.1500, Rs. 2000 and Rs. 900 respectively. Total difference between profit share of Dharam and Shivam together and Deepak and Dharam together is Rs. 450.

Q91. Total investment of Deepak is approximately what percent of total investment of Shivam in one year?

- (a) 96%
- (b) 95%
- (c) 97%
- (d) 92%
- (e) 99%

Q92. What is profit share of Dharam after one year?

- (a) Rs.7110
- (b) Rs. 6570
- (c) Rs. 7020
- (d) Rs. 6560
- (e) Rs. 7220

Q93. What is the ratio of investment made by Deepak for 4 months to investment made by Shivam for 2 months?

- (a) 5:7
- (b) 6:7
- (c) 4:5
- (d) 8:9
- (e) 3:2

Q94. What is the difference between investment made by Dharam for 6 months and 4 months together and total investment made by Shivam?

- (a) Rs. 900
- (b) Rs. 600
- (c) Rs. 800
- (d) Rs. 400
- (e) Rs. 500

Q95. Investment made by Deepak for 2 months is how much percent more or less than investment made by Shivam for 6 months?

- (a) 20% more
- (b) 25% less
- (c) 25% more
- (d) 20% less
- (e) None of these.

Directions (96-100): What will come in place of (?) in the following questions?

Q96. 717, 500, 331, ?, 113, 52

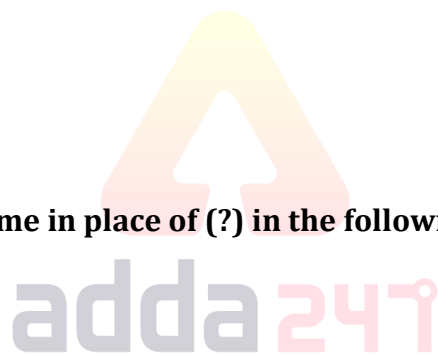
- (a) 216
- (b) 198
- (c) 204
- (d) 156
- (e) None of these

Q97. 24, 20, 28, 16, ?, 12

- (a) 22
- (b) 18
- (c) 20
- (d) 34
- (e) 32

Q98. ?, 100, 156, 240, 352, 492

- (a) 64
- (b) 72
- (c) 68
- (d) 60
- (e) 76



Q99. 68, 140, 220, 327, 498, ?

- (a) 722
- (b) 766
- (c) 568
- (d) 794
- (e) 646

Q100. 29, 70, 27, 74, 21, ?

- (a) 88
- (b) 85
- (c) 87
- (d) 91
- (e) 80

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