## Reasoning Aptitute

**Solutions (1-4):**



**S1. Ans.(a)**

**S2. Ans.(c)**

**S3. Ans.(b)**

**S4. Ans.(d)**

**S5. Ans.(e)**

**S6. Ans.(a)**

**S7. Ans.(a)**

**S8. Ans.(c)**

**S9. Ans.(b)**

**S10. Ans.(a)**
**Sol. I.** R < D (True)       **II.** T > R (False)

**S11. Ans.(e)**
**Sol. I.** Q ≤ L (True)       **II.** C ≤ A (True)

**Solutions (12-13):**

| Word | Code |
|------|------|
| Up | Mk |
| Towards | Dw |
| Dip | Sw |
| Pick/here | Qs/pl |
| Point | ky |

**S12. Ans.(c)**       **S13. Ans.(a)**

**Solutions (14-18):**

| Months | Date | Persons |
|--------|------|---------|
| January | 7 | D |
| | 18 | A |
| March | 7 | Q |
| | 18 | S |
| July | 7 | P |
| | 18 | B |
| September | 7 | R |
| | 18 | C |

**S14. Ans.(d)**       **S15. Ans.(c)**

**S16. Ans.(a)**       **S17. Ans.(a)**

**S18. Ans.(e)**

**S19. Ans.(b)**
**Sol.**

MUSEUM
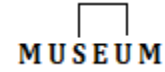
**Solutions (20-24):**

| Box |
|-----|
| M |
| T |
| N |
| W |
| S |
| V |

**S20. Ans.(e)**       **S21. Ans.(b)**

**S22. Ans.(c)**       **S23. Ans.(e)**

**S24. Ans.(e)**

**Solutions (25-28):**
**Sol.** The final arrangement is given here:
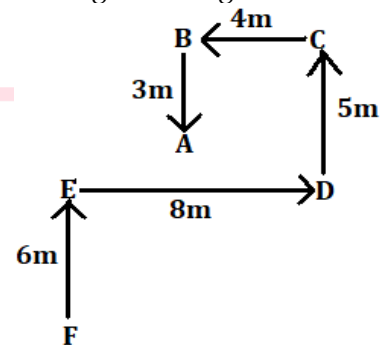


**S25. Ans.(c)**       **S26. Ans.(a)**

**S27. Ans.(c)**       **S28. Ans.(b)**

**Solutions (29-30):**



**S29. Ans.(c)**       **S30. Ans.(c)**

**1**

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# English Language
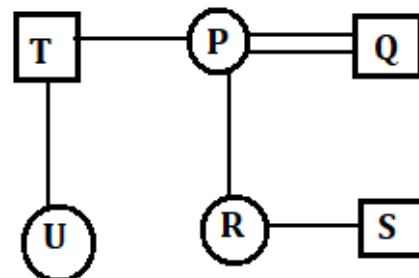
**S31. Ans.(b)**
**Sol.** Option (b) is the correct option as per the information given in the first line of the first paragraph which mentions," An old lion, who was too weak to hunt or fight for his food, decided that he must get it by his wits."

**S32. Ans.(b)**
**Sol.** Refer to the third paragraph which mentions, " "Oh no! Lion," said the fox. "I can see many footprints going into your cave, but none come out. You are dangerous, Mr. Lion. Good bye!" And the fox ran off as fast as he could."

**S33. Ans.(d)**
**Sol.** Throughout the passage, we can infer that 'lion used to make animals his food those who went to him'. Therefore, there were footprints that went into the cave but didn't came out.

**S34. Ans.(a)**
**Sol.** Refer to the second paragraph which mentions, "One day, the fox came too. But he was very cautious about visiting the old lion. Standing at a safe distance from the cave, he inquired politely about the lion's health."

**S35. Ans.(c)**
**Sol.** The correct answer is option (c). In the story, all animals were misfortunate and eaten by the lion while the fox was clever and used other's misfortune as his warning. Hence, the correct answer is option (c).

**S36. Ans.(e)**
**Sol.** The word 'wits' means 'the ability to use words in a clever and amusing way' and 'cleverness' is synonym. Glory means fame or honour.
Beauty means a combination of qualities, such as shape, colour, or form, that pleases the aesthetic senses, especially the sight.
Energy means the strength and vitality required for sustained physical or mental activity.
Weapon means a thing designed or used for inflicting bodily harm or physical damage.

**S37. Ans.(a)**
**Sol.** The word 'cautious' means 'taking great care to avoid possible danger or problems' and 'attentive' is synonym which means 'watching, listening to or thinking about somebody/something carefully'.
Bold means not hesitating or fearful in the face of actual or possible danger.

Exclude means deny (someone) access to a place, group, or privilege.
Freedom means the power or right to act, speak, or think as one wants.
Race means a competition between runners, horses, vehicles, etc. to see which is the fastest in covering a set course.

**S38. Ans.(d)**
**Sol.** The word 'pleased' means 'happy or satisfied about something' and 'sorrow' is antonym which means 'a feeling of great sadness'.
Wound means an injury to part of your body.
Confuse means to make (someone) bewildered or perplexed.
Strong means able to withstand force, pressure, or wear.
Required means officially compulsory, or otherwise considered essential; indispensable.

**S39. Ans.(d)**
**Sol.** The word 'detected' means 'to notice or discover something that is difficult to see' and 'recognize' is synonym which means 'to know again somebody/something'.
Snore means to breathe noisily through your nose and mouth while you are asleep.
Search means try to find something by looking or otherwise seeking carefully and thoroughly.
Relax means make or become less tense or anxious.
Ignore means refuse to take notice of or acknowledge; disregard intentionally.

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**S40. Ans.(e)**
**Sol.** The word 'enough' means 'as much or as many of something as necessary' and 'insufficient' is antonym which means 'not as much as necessary'.
Abundant means existing in very large quantities; more than enough.
Heap means an untidy pile of something.
Free means able to act or be done as one wishes; not under the control of another.
Costly means costing a lot; expensive.

**S41. Ans.(a)**
**Sol.** Part (A) of the given sentence contains an error. "would have been" should be replaced by "had been" as it is type 3 conditional sentence. The type 3 conditional refers to an impossible condition in the past and its probable result in the past. These sentences are truly hypothetical and unreal, because it is now too late for the condition or its result to exist. There is always some implication of regret with type 3 conditional sentences. The reality is the opposite of, or contrary to, what the sentence expresses. In type 3 conditional sentences, the time is the past and the situation is hypothetical. The correct sentence structure should be:
**If + subject + had +V3 [or Had + subject + V3], + subject + would + have + V3**

**S42. Ans.(a)**
**Sol.** There is an error in Part (A) of the sentence. To add emphasis, we can use not only at the beginning of a clause. When we do this, we invert the subject and the verb. Hence, the correct phrase should be "Not only did Emily start playing".

**S43. Ans.(b)**
**Sol.** Part (B) of the sentence is grammatically incorrect. It should be noted that the adjectives inferior, superior, senior, junior, prior etc. take the preposition 'to', not 'than'.

**S44. Ans.(b)**
**Sol.** The error is in Part (B) of the sentence. "plan" should be replaced by "plans". It should be noted that nouns after the phrases such as 'one of', 'either of', 'neither of', 'every one of' etc should be plural.

**S45. Ans.(a)**
**Sol.** The error lies in part (A) of the sentence. "which" should be replaced by "who" as 'who' is mainly used for people while 'which' is used for animals or things in general.

**S46. Ans.(c)**
**Sol.** The incorrectly spelled word is 'antiqeu'. The correct spelling is 'antique'.

**S47. Ans.(b)**
**Sol.** The incorrectly spelled word is 'immigrents'. The correct spelling is 'immigrants'.

**S48. Ans.(e)**
**Sol.** All the given highlighted words given in the sentence are correct hence option (e) is correct.

**S49. Ans.(b)**
**Sol.** The incorrectly spelled word is 'obisity'. The correct spelling is 'obesity'.

**S50. Ans.(c)**
**Sol.** The incorrectly spelled word is 'technichian'. The correct spelling is 'technician'.

**S51. Ans.(a)**
**Sol.** The correct choice for the answer is option (a): careless.
The appropriate fit for the blank is 'careless' since it means being reckless; negligent.
Intelligent means having or showing the ability to easily learn or understand things or to deal with new or difficult situations.
Avoid means keep away from or stop oneself from doing (something).
Deliberate means to carefully think or talk something through.

**S52. Ans.(c)**
**Sol.** The correct choice for the answer is option (c): stare.
The appropriate fit for the blank is 'stare' since it means to gaze at something intently.
Imitate means to copy (a person's speech or mannerisms), especially for comic effect.
Modest means having or showing a moderate or humble estimate of one's merits, importance, etc.
Revive means to restore to life or consciousness.

**S53. Ans.(d)**
**Sol.** The correct choice for the answer is option (d): punish.
The appropriate fit for the blank is 'punish' as it means to put a penalty or consequence in place.
Praise means to express warm approval or admiration of.
Criticise means indicate the faults of (someone or something) in a disapproving way.
Annoy means make (someone) a little angry; irritate.

**S54. Ans.(b)**
**Sol.** The correct choice for the answer is option (b): clingy

The appropriate fit for the blank is 'clingy' as it means to hold fast or adhere to something, as by grasping, sticking, embracing, or entwining.

Offensive means causing someone to feel resentful, upset, or annoyed.

Tolerant means showing willingness to allow the existence of opinions or behaviour that one does not necessarily agree with.

Effective means successful in producing a desired or intended result.

**S55. Ans.(c)**
**Sol.** The correct choice for the answer is option (c): clutter.

The appropriate fit for the blank is 'clutter' as it means a messy collection of things lying around.

Aesthetic means relating to beauty or refined taste.

Envy means to admire and be jealous of.

Quirk means a strange habit.

**S56. Ans.(e)**
**Sol.** Sentence (E) should be the second statement of the rearranged paragraph. We can deduce this by arranging the sentences in the sequence of BEAFDC to form a coherent paragraph.

Statement (B) should be the first statement as it has introduced the subject matter of the paragraph which is about a remembrance of the author's childhood tutoring. He has described the struggle of learning algebra through conventional methods.

Sentence (E) should be the second statement in the sequence, as it has continued his memory of learning algebra. He has illustrated that his struggles were reduced soon after his teacher had introduced several innovative approaches of learning.

Sentence (A) should be the third statement. This sentence has described about the improved results of the activities introduced by his teacher. Statement (A) should follow statement (E) as it mentions about the aforesaid activities.

Sentence (F) should be the fourth statement as it provides a comparison between the traditional approaches and the modern approaches of teaching. The keyword "but" in the given sentence is used as a preposition which imparts the meaning as "except; apart from; other than".

Sentence (D) should be the fifth statement as it introduces the term "student engagement" which was the gist of the instance described in the previous sentences.

Sentence (C) stands as a concluding statement as which provides the definition of the term "student engagement" mentioned in statement (D).

**S57. Ans.(a)**
**Sol.** Sentence (B) should be the first statement of the rearranged paragraph. We can deduce this by arranging the sentences in the sequence of BEAFDC to form a coherent paragraph.

Statement (B) should be the first statement as it has introduced the subject matter of the paragraph which is about a remembrance of the author's childhood tutoring. He has described the struggle of learning algebra through conventional methods.
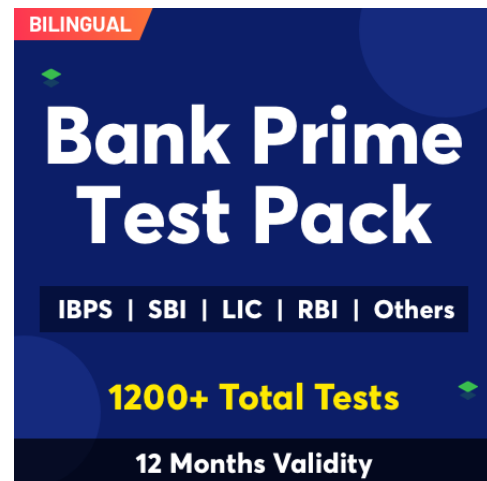
Sentence (E) should be the second statement in the sequence, as it has continued his memory of learning algebra. He has illustrated that his struggles were reduced soon after his teacher had introduced several innovative approaches of learning.

Sentence (A) should be the third statement. This sentence has described about the improved results of the activities introduced by his teacher. Statement (A) should follow statement (E) as it mentions about the aforesaid activities.

Sentence (F) should be the fourth statement as it provides a comparison between the traditional approaches and the modern approaches of teaching. The keyword "but" in the given sentence is used as a preposition which imparts the meaning as "except; apart from; other than".

Sentence (D) should be the fifth statement as it introduces the term "student engagement" which was the gist of the instance described in the previous sentences.

Sentence (C) stands as a concluding statement as which provides the definition of the term "student engagement" mentioned in statement (D).

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**S58. Ans.(a)**

**Sol.** Sentence (A) should be the third statement of the rearranged paragraph. We can deduce this by arranging the sentences in the sequence of BEAFDC to form a coherent paragraph.

Statement (B) should be the first statement as it has introduced the subject matter of the paragraph which is about a remembrance of the author's childhood tutoring. He has described the struggle of learning algebra through conventional methods.

Sentence (E) should be the second statement in the sequence, as it has continued his memory of learning algebra. He has illustrated that his struggles were reduced soon after his teacher had introduced several innovative approaches of learning.

Sentence (A) should be the third statement. This sentence has described about the improved results of the activities introduced by his teacher. Statement (A) should follow statement (E) as it mentions about the aforesaid activities.

Sentence (F) should be the fourth statement as it provides a comparison between the traditional approaches and the modern approaches of teaching. The keyword "but" in the given sentence is used as a preposition which imparts the meaning as "except; apart from; other than".

Sentence (D) should be the fifth statement as it introduces the term "student engagement" which was the gist of the instance described in the previous sentences.

Sentence (C) stands as a concluding statement as which provides the definition of the term "student engagement" mentioned in statement (D).

**S59. Ans.(c)**

**Sol.** Sentence (F) should be the fourth statement of the rearranged paragraph. We can deduce this by arranging the sentences in the sequence of BEAFDC to form a coherent paragraph.

Statement (B) should be the first statement as it has introduced the subject matter of the paragraph which is about a remembrance of the author's childhood tutoring. He has described the struggle of learning algebra through conventional methods.

Sentence (E) should be the second statement in the sequence, as it has continued his memory of learning algebra. He has illustrated that his struggles were reduced soon after his teacher had introduced several innovative approaches of learning.

Sentence (A) should be the third statement. This sentence has described about the improved results of the activities introduced by his teacher. Statement (A) should follow statement (E) as it mentions about the aforesaid activities.

Sentence (F) should be the fourth statement as it provides a comparison between the traditional approaches and the modern approaches of teaching. The keyword "but" in the given sentence is used as a preposition which imparts the meaning as "except; apart from; other than".

Sentence (D) should be the fifth statement as it introduces the term "student engagement" which was the gist of the instance described in the previous sentences.

Sentence (C) stands as a concluding statement as which provides the definition of the term "student engagement" mentioned in statement (D).

**S60. Ans.(e)**

**Sol.** Sentence (C) should be the last statement of the rearranged paragraph. We can deduce this by arranging the sentences in the sequence of BEAFDC to form a coherent paragraph.

Statement (B) should be the first statement as it has introduced the subject matter of the paragraph which is about a remembrance of the author's childhood tutoring. He has described the struggle of learning algebra through conventional methods.

Sentence (E) should be the second statement in the sequence, as it has continued his memory of learning algebra. He has illustrated that his struggles were reduced soon after his teacher had introduced several innovative approaches of learning.

Sentence (A) should be the third statement. This sentence has described about the improved results of the activities introduced by his teacher. Statement (A) should follow statement (E) as it mentions about the aforesaid activities.

Sentence (F) should be the fourth statement as it provides a comparison between the traditional approaches and the modern approaches of teaching. The keyword "but" in the given sentence is used as a preposition which imparts the meaning as "except; apart from; other than".

Sentence (D) should be the fifth statement as it introduces the term "student engagement" which was the gist of the instance described in the previous sentences.

Sentence (C) stands as a concluding statement as which provides the definition of the term "student engagement" mentioned in statement (D).

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**S61. Ans.(c)**
**Sol.** Arunachal Pradesh the 24th state of the Indian Union, is bounded by Bhutan to the west, Myanmar to the east, China to the north and north-east and the plains of Assam to the south. Arunachal is the largest state (area-wise) in the North-East Region. 83,743 sq. km(bounded by Bhutan to the west, Myanmar to the east, China), Districts are13.

**S62. Ans.(d)**
**Sol.** BRICS is acronym for association of five member countries:- Brazil, Russia, India, China and South Africa.

**S63. Ans.(a)**
**Sol.** These 34 monasteries and temples, extending over more than 2 km, were dug side by side in the wall of a high basalt cliff, not far from Aurangabad, in Maharashtra. Ellora, with its uninterrupted sequence of monuments dating from A.D. 600 to 1000, brings the civilization of ancient India to life.

**S64. Ans.(b)**
**Sol.** Union Cabinet on Wednesday approved the merger of capital-starved Lakshmi Vilas Bank (LVB) with DBS Bank India. The Reserve Bank of India on 17 November proposed the merger of the 94-year-old lender with the Indian arm of Singapore's DBS Bank.

**S65. Ans.(c)**
**Sol.** Former Indian captain and wicket-keeper batsman Mahendra Singh Dhoni has been named as the captain of the ICC ODI Team of the Decade by International Cricket Council (ICC).

**S66. Ans.(b)**
**Sol.** The IPL 2021 final will be played at the Narendra Modi Cricket Stadium Ahmedabad on May 30th. The eight teams will play across six venues - Mumbai, Chennai, Bengaluru, Ahmedabad, New Delhi, and Kolkata -- with each side playing in four venues out of the decided ones.

**S67. Ans.(c)**
**Sol.** The song Vande Mataram, composed in Sanskrit by Bankimchandra Chatterji, was a source of inspiration to the people in their struggle for freedom.

**S68. Ans.(e)**
**Sol.** Mount Abu is a popular hill station in the Aravalli range and lies in the Indian state of Rajasthan. The place is well-known for its Dilwara Jain Temples.

**S69. Ans.(a)**
**Sol.** The registered as well as corporate headquarters of Union Bank of India is in the prestigious Nariman Point area of Mumbai, the commercial capital of India.

**S70. Ans.(b)**
**Sol.** March 16 is observed as National Vaccination Day , 3.29 crore Vaccine Doses administered across the country.

**S71. Ans.(c)**
**Sol.** According to the words of the Japanese envoy himself, that name was chosen because the country was so close to where the sun rises. In any event, the name stuck, and for the last 1400 years or so, the world has referred to Japan as Nippon, the land of the rising sun.

**S72. Ans.(a)**
**Sol.** Rajasthan is the largest state in India. The area occupied by Rajasthan in our country is 342,239 Km2.

**S73. Ans.(c)**

**S74. Ans.(d)**
**Sol.** Rakhigarhi, Rakhi Garhi (Rakhi Shahpur + Rakhi Khas), is a village in Hisar District in the state of Haryana in India,

**S75. Ans.(a)**
**Sol.** Vijay Diwas is celebrated on December 16 every year to honour the victory of Indian armed forces over Pakistan in the 1971 war.

**S76. Ans.(d)**
**Sol.** The Dilwara Temples or Delvada Temples are a group of svetambara Jain temples located about 2 1⁄2 kilometres from the Mount Abu settlement, Rajasthan's only hill station.

**S77. Ans.(a)**
**Sol.** There are 28 states and 8 Union territories in the country. Union Territories are administered by the President through an Administrator appointed by him/her.

**S78. Ans.(a)**
**Sol.** Indian fig tree, also termed as Banyan tree is the National tree of India. Ficus Bengalensis is the scientific name of national tree of India.

**S79. Ans.(a)**
**Sol.** A person must satisfy all following conditions to be qualified to become a member of parliament of the Lok Sabha; Must be a citizen of India. Must not be less than 25 years of age.

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**S80. Ans.(e)**
**Sol.** Several other Prime Ministers have since held the additional charge of finance ministry. The current Finance Minister of India is Nirmala Sitharaman.

**S81. Ans.(b)**
**Sol.** The Monetary Policy Committee (MPC) is a committee of the Central Bank in India (Reserve Bank of India), headed by its Governor, which is entrusted with the task of fixing the benchmark policy interest rate (repo rate) to contain inflation within the specified target level.

**S82. Ans.(a)**
**Sol.** Dutee Chand is an Indian professional sprinter and current national champion in the women's 100 metres event. She is the third Indian woman to ever qualify for the Women's 100 metres event at the Summer Olympic Games.

**S83. Ans.(a)**
**Sol.** PIN is the abbreviation of Personal Identification Number. PIN is a secure numerical code created by the user and used for authentication when the user tries to access a system.

**S84. Ans.(b)**
**Sol.** Largest tea producing state in India is Assam. Other Tea-producing states in India are West Bengal, Tamil Nadu, Kerala, Tripura, Arunachal Pradesh, Himachal Pradesh, Karnataka, Sikkim, Nagaland, Uttarakhand, Manipur, Mizoram, Meghalaya, Bihar and Odisha.

**S85. Ans.(e)**
**Sol.** The head office of NHB is located in New Delhi. It has a regional office at Mumbai and a Representative office at Hyderabad, Bangaluru, Chennai, Kolkata, Lucknow & Ahmedabad. NHB aims to facilitate the promotion of Housing Finance Institutions and provides financial and other support to such institutions.

**S86. Ans.(b)**
**Sol.** The Param Vir Chakra (PVC) is India's highest military decoration, awarded for displaying distinguished acts of valour during wartime. Param Vir Chakra translates as the "Greatest of the Ultimate Brave", and the award is granted for "most conspicuous bravery in the presence of the enemy".

**S87. Ans.(c)**
**Sol.** The waterfalls of Niagara Falls are located on the Niagara River which connects two of the five Great Lakes. Lake Erie and Lake Ontario. Collectively the waterfalls are named Niagara Falls. They consist of three different waterfalls.

**S88. Ans.(a)**
**Sol.** Assam, Poba Reserve Forest in Dhemaji district would be upgraded to a wildlife sanctuary.

**S89. Ans.(b)**
**Sol.** Bhogapuram Airport is a new international airport construction project for the Indian state of Andhra Pradesh.

**S90. Ans.(c)**
**Sol.** Haldia is an industrial port city in Purba Medinipur in the Indian state of West Bengal.

## Quantitative Aptitude

**S91. Ans.(d)**
**Sol.** Required difference = (80 + 100) – (70 + 90) = 20

**S92. Ans.(a)**
**Sol.** Total seminars (all three subjects) attempt by R
= (80 + 100 + 30) = 210
Total seminars (all three subjects) attempt by Q
= (40 + 70 + 90) = 200
Required percentage = $\frac{210-200}{200} \times 100 = 5\%$

**S93. Ans.(e)**
**Sol.** Total seminars of Science & Economics attempt by
P = 80 + 60 = 140
Total seminars of Economics & Sociology attempt by Q
= 70 + 90 = 160
Required ratio = 140 : 160 = 7 : 8

**S94. Ans.(b)**
**Sol.** Average number of seminar of Economics attempt
by Q & R = $\frac{70+100}{2} = 85$
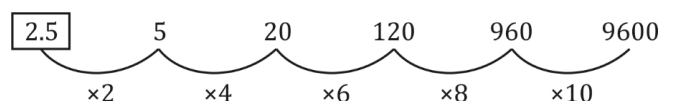Required percentage
= $\frac{85}{80} \times 100$
= $106\frac{1}{4}\%$

**S95. Ans.(c)**
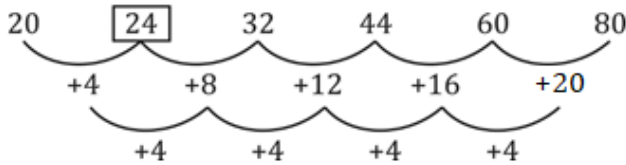**Sol.** Required sum = 80 + 60 + 50 = 190
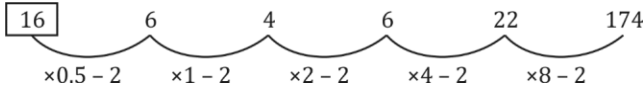
**S96. Ans.(b)**
**Sol.** Pattern of series –

| 2.5 | 5 | 20 | 120 | 960 | 9600 |
|---|---|---|---|---|---|
| | ×2 | ×4 | ×6 | ×8 | ×10 |

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**S97. Ans.(d)**
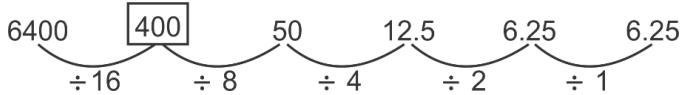**Sol.** Pattern of series –



**S98. Ans.(a)**
**Sol.** Pattern of series –



**S99. Ans.(b)**
**Sol.** Pattern of series –



**S100. Ans.(d)**
**Sol.** Pattern of series –
$26 + 13 = 39$
$39 + 11 = 50$
$50 + 13 = 63$
$? = 63 + 11 = 74$
$74 + 13 = 87$

**S101. Ans.(e)**
**Sol.** $\frac{18}{3} \times \frac{1}{\sqrt{4}} = \sqrt{?}$
or, $3 = \sqrt{?}$
or, $? = 9$

**S102. Ans.(d)**
**Sol.** $? = \sqrt{400} \times 6$
$? = 20 \times 6$
$? = 120$

**S103. Ans.(d)**
**Sol.** $1\frac{16}{100} \times 100 + \frac{32}{100} \times 200 + \frac{4}{100} \times 400 = ?$
$? = 16 + 64 + 16$
$? = 96$

**S104. Ans.(a)**
**Sol.** $\frac{25}{100} \times ? + \frac{50}{100} \times 400 = 250$
$\frac{25}{100} \times ? = 250 - 200$
$? = 50 \times \frac{100}{25}$
$? = 200$

**S105. Ans.(d)**
**Sol.** $\frac{10}{3} + \frac{11}{2} + ? = 11$
$? = 11 - \frac{20+33}{6}$

$? = 11 - \frac{53}{6}$
$? = \frac{66-53}{6}$
$? = 2\frac{1}{6}$

**S106. Ans.(a)**
**Sol.** $\frac{132+169-27}{42} = ?$
$? = \frac{274}{42}$
$? = 6\frac{11}{21}$

**S107. Ans.(c)**
**Sol.** $4 \times 26 + 80 + 5 \times ? = 324$
$5 \times ? = 324 - (104 + 80)$
$5 \times ? = 140$
$? = 28$

**S108. Ans.(a)**
**Sol.** $? = 1200 - 460$
$? = 740$

**S109. Ans.(c)**
**Sol.** $25 \times 3.6 + 50 - ?^2 = 40$
$?^2 = 140 - 40$
$? = 10$

**S110. Ans.(b)**
**Sol.** $?^2 = 12 + 4.8 \times 5$
$?^2 = 12 + 24$
$? = 6$

**S111. Ans.(c)**
**Sol.** Let total capacity of tank = 60 units (L.C.M of 12 and 15)
Efficiency of inlet tap $= \frac{60}{12} = 5$ units/hr.
Efficiency of outlet tap $= 5 - \frac{60}{12+3} = 1$ units/hr.
Required time $= \frac{60}{1} = 60$ hr.

**S112. Ans.(c)**
**Sol.** Selling price of 1st cycle $= \frac{1200 \times 80}{100} = 960$ Rs.
Now,
Selling price of 2nd cycle $= \frac{960 \times 130}{100} = 1248$ Rs.
Profit of man = 1248 – 1200= 48 Rs.

**S113. Ans.(a)**
**Sol.** Let the sum be Rs 100x
ATQ
$\frac{100x \times 3.5 \times 12}{100} - \frac{100x \times 1.5 \times 24}{100} = 144$
42x-36x=144
x=24
Required sum=Rs 24,00

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**S114. Ans.(d)**
**Sol.** Speed of boat in upstream=10 km/hr
Speed in downstream= 15 km/hr
Speed of boat in still water= 12.5 km/hr
Required total distance= $12.5 \times 8 = 100\ km$

**S115. Ans.(a)**
**Sol.** Let present age of A be x yrs
& present age of B be y yrs.
ATQ,
x + y = 88 + 12
x + y = 100  …(i)
x – 18 = y – 6
x – y = 12  …(ii)
solving (i) & (ii)
x = 56
∴ age of A 2 year hence = 58 yrs

**S116. Ans.(e)**
**Sol.** Total weight = n × 35
ATQ –
$\Rightarrow \frac{n \times 35 - 25}{n-1} = 36$
Solving n = 11

**S117. Ans.(b)**
**Sol.** Let A and B invested Rs. 3x and Rs. 5x respectively
Ratio of profit of A and B = 3x × 12 : (5x × 4 + 4x × 8)
= 36x : 52x = 9 : 13
∴ Profit share of A = $\frac{9}{22} \times 880$ = Rs. 360

**S118. Ans.(b)**
**Sol.** Discount $R_1$ =25%
$R_2$ = 24%
∴ Equivalent discount $= -R_1 - R_2 + \frac{R_1 R_2}{100}$
$= -25 - 24 + \frac{25 \times 24}{100}$ = - 43
i.e. discount = 43%

**S119. Ans.(b)**
**Sol.** Total sum of 8 numbers=312
Total sum of first 3 numbers=99
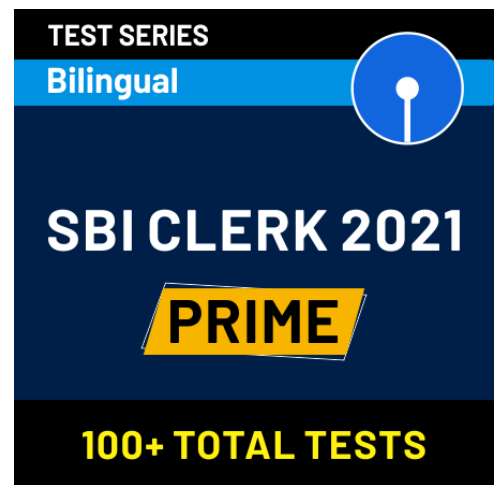Total sum of last four numbers=182
Required fourth number= 312 – (99 + 182) = 31

**S120. Ans.(b)**
**Sol.** 33% of A = 55% of B
$\frac{33 \times A}{100} = \frac{55 \times B}{100}$
A : B = 5 : 3

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