

IBPS PO Prelims

Previous Year Paper with Solutions

(Memory Based - 2020)



for IBPS PO 2021

1. In each of the questions below, four sentences are given. Choose the sentence that is grammatically or meaningfully incorrect. If all are correct, mark option 5 as your answer.

- (1) Baird was the GM in Kansas City and had been like a father to Greinke when he went through his anxiety issues.
- (2) Baird was the GM in Kansas City when Greinke went through his anxiety issues and Baird had been like a father to him.
- (3) When Greinke went through his anxiety issues, Baird was the GM in Kansas City and had been like a father to him.
- (4) Baird had been like a father to him when Greinke went through his anxiety issues and was the GM in Kansas City.
- (5) All are correct

Answer Key - 4

Solution -

There is an error in the last part of the sentence (d). It is not clear who is the GM in Kansas City, Baird or Greinke.

2. In each of the questions below, four sentences are given. Choose the sentence that is grammatically or meaningfully incorrect. If all are correct, mark option 5 as your answer.

- (1) While we look at things on a laptop, I occasionally get an early

morning cuddle from my youngest daughter in the recliner.

- (2) Early in the morning, I get an occasional cuddle from my youngest daughter in the recliner while we look at things on a laptop.
- (3) I occasionally get an early morning cuddle from my youngest daughter in the recliner while we look at things on a laptop.
- (4) While my youngest daughter and I look at things on a laptop, I occasionally get an early morning cuddle from her in the recliner.
- (5) All are correct

Answer Key - 5

Solution -

All the sentences are correct and do not contain any grammatical or contextual errors. In (b), 'Early in the morning' is an adverb phrase and has a correct usage. The right answer is (e).

3. A sentence is given in which certain words are highlighted. Choose the option with the pair/s of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no change is required, mark E as your response. Home **affordability (A)** has increased in the last **decade (B)** and is expected to become **better (C)** due to factors like **stagnant (D)** prices and **higher (E)** growth in incomes.

- (1) C-D

- (2) A-B
- (3) B-C
- (4) A-E
- (5) No change required

Answer Key - 5

Solution -

The sentence is grammatically correct and meaningful in the given form.

Option E is the right answer.

4. In each of the following questions, a sentence is given with certain words in bold. Choose the pair/s of such words which need to be interchanged so as to make the sentence grammatically correct and meaningful. (A) **close** are that through the (B) **gap** of the West Bengal government and the (C) **industry**, the demand-supply (D) **efforts** may narrow if not (E) **indications** within three years.

- (1) C-D
- (2) A-E, B-D
- (3) A-C
- (4) B-E, C-D
- (5) B-C

Answer Key - 2

Solution -

It is clear that the word at (A) is misplaced. We need a noun here and in its plural form. Among 'indications' and 'efforts', the former fits better as we need 'efforts' at (B) to make the sentence meaningful. 'Gap' can then go to position (D), where it fits better

with 'demand-supply'. Finally, 'close' can be placed at (E) as a verb. The corrected sentence is - 'Indications are that through the efforts of the West Bengal government and the industry, the demand-supply gap may narrow if not close within three years'. B is the right answer.

5. A sentence is given in which certain words are highlighted. Choose the option with the pair/s of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no change is required, mark E as your response.

Speculation (A) that U.S. mobile carrier Verizon might **start (B)** its 5G services early **forced (C)** South Korean providers to **launch (D)** organise a late-night **hastily (E)**.

- (1) A-E
- (2) B-D
- (3) D-E
- (4) A-C
- (5) No change required

Answer Key - 3

Solution -

'Launch' is a verb/noun and it cannot qualify the verb 'organise' that follows D, for which purpose we need an adverb. 'Hastily' is the only adverb available, and it can be used at D. 'Launch', as a noun, can be used at E, following the adjective 'late-night'. Option C is the right answer.

6. Which word should come at C?

- (1) Unreasonable
- (2) When
- (3) Whether
- (4) Beside
- (5) Uncooperative

Answer Key - 3

Solution -

As the sentence says 'but he does not mind (C) it is a rouble 'or' five kopeks. So, whether..or.. which is used as double conjunction fits here. Hence, the answer is option c) 'whether'.

7. Which word should come at E?

- (1) Agreeing
- (2) Quiet
- (3) Peace
- (4) Wrangling
- (5) Harmony

Answer Key - 4

Solution -

The word 'petulance' which means 'the quality of being childishly sulky or bad-tempered' suggests that there was a quarrel regarding the seats which is also mentioned in the previous sentence. So, use of words 'agreeing', 'quiet', 'peace' and 'harmony' does not fit here. 'Wrangling' means 'engagement in a long, complicated dispute or argument'. Hence, the answer is option d).

8. Which word should come at A?

- (1) Listen
- (2) Heard
- (3) Listened
- (4) Focussed
- (5) Concentrated

Answer Key - 1

Solution -

With infinitive marker 'to' root form of verb is used. So, this eliminates 'heard', 'listened', 'focussed' and 'concentrated'. 'Listen' fits in the sentence which is the root form of verb. Hence, the answer is option a).

9. Which word should come at D?

- (1) Comforting
- (2) Caressing
- (3) Jostling
- (4) Accepting
- (5) Helping

Answer Key - 3

Solution -

The sentence with the blank D says that all three young men were at once trying to get onto the seat. It talks about the struggle to get the seats. So, the word 'jostling' which means 'struggle or compete forcefully for' fits in the blank. Other words cannot be used in the given context. Hence, the answer is option c).

10. Which word should come at B?

- (1) Undersized

- (2) Small
- (3) Bone
- (4) Succinct
- (5) Lanky

Answer Key - 5

Solution -

As the sentence says that the two men who are talked about are 'tall'. The word 'undersized' means of less than the usual size, 'small' and 'succinct' (which means (especially of something written or spoken) briefly and clearly expressed) cannot fit in the given blank. 'Bone' which is a noun also cannot fit in the sentence as 'tall' is an adjective so to maintain parallelism the word which replaces the blank needs to be an adjective. Hence, the answer is option e). Lanky - (of a person) ungracefully thin and tall.

11. Which of the following is true with respect to the passage?

- (1) King Tut died more than five thousand years ago from now.
- (2) King Tut was the last heir of the family that had ruled Egypt and its empire for centuries.
- (3) King Tut's tomb was found in the year 1925 by the archaeologist Howard carter.
- (4) King Tut died because of old age.
- (5) All of the above

Answer Key - 2

Solution -

The first paragraph introduces us to king Tut. The 2nd sentence of the passage mentions that the "The last heir of a powerful family that had ruled Egypt and its empire for centuries, he was laid to rest laden with gold and eventually forgotten." Here, 'he' refers to king Tut. Thus, the statement in option (b) is true with respect to the passage. Hence, option (b) is the correct answer.

The statement in option (a) is incorrect as the 2nd paragraph mentions that the king dies 3300 years ago. The statement in option (c) is incorrect as the 4th paragraph mentions that the British archaeologist Howard carter discovered the king's tomb in 1922. The statement in option (d) is incorrect as the 1st sentence of the passage mentions that the king dies when he just a teenager. Hence, rest of the options are eliminated.

12. Which of the following things did Carter come across when he opened the first of the 3 coffins?I. A shroud decorated with garlands of willow and olive leaves.II. Wild celery, lotus petals and cornflowers.III. Gold along with many semiprecious stones, such as lapis lazuli and turquoise.

- (1) II & III Only
- (2) I & III Only
- (3) II Only
- (4) I & II Only
- (5) All of I, II & III

Answer Key - 4

Solution -

The 5th paragraph of the passage gives us the detail of the things Carter found when he opened the pharaoh's coffin. It is stated that "Opening the first, he found a shroud adorned with garlands of willow and olive leaves, wild celery, lotus petals, and cornflowers, the faded evidence of a burial in March or April." Thus, statement I & II are true. However, there is no mention of semiprecious stones like lapis lazuli or turquoise. Thus, statement III is incorrect according to the passage. Hence, option (d) is the correct answer.

13. Which of the following is/are the reason behind the poor condition of the mummy of king Tut? I. The fact that the mummy was hastily ransacked after discovery. II. The resins used in the burial ritual had hardened, cementing Tut to the bottom of his solid gold coffin. III. The mummy being set outside in the sunshine that heated it to excessive temperature.

- (1) II Only
- (2) I & III Only
- (3) III Only
- (4) II & III Only
- (5) All of I, II & III

Answer Key - 1

Solution -

The 5th paragraph of the passage gives the reason behind the mummy's poor condition. It states

that "When he finally reached the mummy, though, he ran into trouble. The ritual resins had hardened, cementing Tut to the bottom of his solid gold coffin." Thus, statement II is correct. Also, the statement III is true according to the passage, but it is not stated as one of the reasons in the passage behind the poor condition of the mummy. Thus, statement III is not one of the reasons. Also, the 4th paragraph mentions that the contents of the tomb were hastily ransacked and not the mummy. Thus, statement I is also incorrect. Hence, option (a) is the correct answer.

14. Which of the following can be a suitable title for the passage?

- (1) King Tut: Royal Lineage
- (2) The discovery of Tut's tomb makes headlines around the world.
- (3) King Tut: The unsolved mystery of the young pharaoh's death.
- (4) The world's most famous mummy undergoes CT scan.
- (5) British archaeologist solves the mystery of murder of youngest pharaoh of Egypt.

Answer Key - 3

Solution -

The title in option (c) correctly portrays the true picture of the passage as it conveys the central idea of the passage, which is to examine the mummy of king Tut to solve the mystery behind the young pharaoh's death and the fact that the mystery

remains unsolved after all these years. Hence, option (c) is a suitable title for the passage.

The title in option (a) cannot be the title for the passage as the passage does not talk of the lineage of king Tut.

The title in option (b) does not paint the true picture as the passage is not about the discovery making headlines around the world.

The title in option (d) cannot be the title of the passage as the mummy underwent CT scan only to unearth the mystery behind the death of king Tut, which is covered in the title in option (c).

The title in option (e) is misleading as even after several years of discovery of the pharaoh's tomb, archaeologists haven't been successful in finding the true reason behind king Tut's death.

15. Which of the following can be inferred from the passage?

I. The Secretary General of Egypt's Supreme Council of Antiquities holds Carter to be responsible for the damaged condition of king Tut's remains.

II. The fact that the mummy had been firmly affixed to the coffin it was placed in, forced the archaeologist Howard Carter to carve out the body of king Tut, mutilating the mummy in the process.

III. The Egyptians believed in the concept of afterlife.

- (1) I & II Only
- (2) II & III Only
- (3) I Only
- (4) II Only
- (5) All of I, II & III

Answer Key - 1

Solution -

The 1st sentence of the 4th paragraph states the quote by Secretary General of Egypt's Supreme Council of Antiquities: "The mummy is in very bad condition because of what Carter did in the 1920s." Thus, statement I can be inferred from the passage.

Statement II can be inferred from the last paragraph of the passage. The mummy was fixated to the coffin it was placed in because the resins placed in the coffin had hardened, in turn cementing the mummy to the walls of the coffin. Carter tried to loosen the resins using sunshine, but the effort proved to be in vain.

Statement III can't be inferred from the last sentence of the 4th paragraph, which states that "...Tut was also buried with everyday things he'd want in the afterlife. But maybe only he believed and as he was a king, it was done in order to respect his wishes. It can't be said from only this sentence that all the Egyptians believed in the concept of afterlife."

Hence, option (A) is the correct answer.

16. Which of the following words can correctly replace the blank marked as (A) in the passage?

- (1) extinguished
- (2) fluorescent
- (3) quenched
- (4) gleaming
- (5) blazing

Answer Key - 5

Solution -

The blank requires an adjective at its place to modify the noun 'sunshine'. The sentence mentions that the sunshine heated it to 149 degrees Fahrenheit. Thus, the word 'blazing' (very hot) fits correctly in the blank as its use depicts the high temperature. Hence, option (e) is the correct answer.

The words 'extinguished' (cease to burn or shine) and 'quenched' (extinguished) contradict the above stated context. Hence, options (a) & (c) are eliminated. The word 'fluorescent' (having or showing fluorescence, i.e., the property of emission of light by a substance) and 'gleaming' (bright and shiny from being cleaned) cannot be used to modify the noun 'sunshine' here, as they are unrelated to temperature and thus, are irrelevant to the context of the passage. Hence, options (b) & (d) are eliminated.

17. Which of the following words can be an antonym for the word 'futile' as used in the passage?

- (1) worthless
- (2) vain
- (3) pointless
- (4) fruitful
- (5) nugatory

Answer Key - 4

Solution -

The word 'futile' means 'incapable of producing any useful result; pointless'. The word 'fruitful' which means 'producing good or helpful results; productive' is thus, the correct antonym of the word 'futile'.

Rest of the words mentioned in the options are the synonyms of the word 'futile'. Worthless - having no real value or use; vain - producing no result; nugatory - producing no result. Hence, options (a), (b), (c) & (e) are eliminated.

18. Which of the following words can be a synonym for the word 'lingering' as used in the passage?

- (1) momentary
- (2) fleeting
- (3) persistent
- (4) evanescent
- (5) ephemeral

Answer Key - 3

Solution -

The word 'lingering' is used as an adjective here to modify the noun phrase 'medical mysteries'. The adjective form of the word 'lingering'

means 'lasting for a long time or slow to end'. Thus, the word 'persistent' (continuing to exist or occur over a prolonged period) is the correct synonym of the word 'lingering'. Hence, option (c) is the correct answer.

Rest of the words mentioned in the options are the antonyms of the word 'lingering'. Fleeting - lasting for a very short time; evanescent - quickly fading or disappearing; ephemeral - lasting for a very short time. Hence, options (a), (b), (d) & (e) are eliminated.

19. In each of the following questions, a sentence has been broken into four parts. Identify the part that has an error and mark that as the answer. If there is no error, mark (e) as the answer.

- (1) The MuseNet project is interesting from a music-history
- (2) perspective, as it points to some interesting
- (3) connections among
- (4) different artists across genres and centuries.
- (5) No error

Answer Key - 5

Solution -

The given sentence does not have error in any part. Option E is the correct answer.

20. In each of the following questions, a sentence has been

broken into four parts. Identify the part that has an error and mark that as the answer. If there is no error, mark (e) as the answer.

- (1) Amazon tracks every individual
- (2) worker's productivity, and automatically generates
- (3) warnings or even terminations
- (4) without any input from supervisors.
- (5) No error

Answer Key - 5

Solution -

The given sentence does not have error in any part. Option E is the correct answer.

21. In the questions given below, each question consists of a sentence which has been broken into four parts. You have to identify the part with the error/s. If there is no error, choose E as your answer. Ignore errors of punctuation, if any.

- (1) Data localisation laws refer
- (2) to regulations that dictate how the
- (3) data of a nation's citizens is collected,
- (4) processed and stored inside the country.
- (5) no error

Answer Key - 5

Solution -

The given sentence is grammatically correct and meaningful. Option E is the right answer.

22. In the questions given below, each question consists of a sentence which has been broken into four parts. You have to identify the part with the error/s. If there is no error, choose E as your answer. Ignore errors of punctuation, if any.

- (1) Green revenues generated from the sale of
- (2) low-carbon technologies, which support the transition,
- (3) will helps companies offset costs of complying with
- (4) greenhouse gas (GHG) reduction policies.
- (5) no error

Answer Key - 3

Solution -

The root form of the verb 'help' should be used after the auxiliary verb 'will'. Option C is the right answer.

23. In the questions given below, each question consists of a sentence which has been broken into four parts. You have to identify the part with the error/s. If there is no error, choose E as your answer. Ignore errors of punctuation, if any.

- (1) A recent paper shows that global warming
- (2) during the past half century has
- (3) contributing to a differential

- (4) change in income across countries.
- (5) No error

Answer Key - 3

Solution -

In part C, the past participle form of the verb 'contributed' should have been used with 'has'. Option C is the right answer.

24. In the question given below, four statements are given which may or may not contain an error. Choose the one that is grammatically and meaningfully correct. If all the sentences are correct, mark 'All are correct' as your answer.

- (1) Within a thousand years the Neolithic revolution, as it's called, spread north through Anatolia and into the south-eastern Europe.
- (2) Government has undertaken number of legislative, technical and institutional measures for addressing cyber security issues and strengthening security system in the country.
- (3) Majority of diabetes is caused by what we choose to eat and once you're type 2 diabetic, you've doubled your risk of other chronic diseases such as Alzheimer's.
- (4) The recently launched 'Jal Shakti Abhiyan' will focus on water conservation & rainwater harvesting, renovation of traditional water bodies, reuse of water and recharging of

structures, and intensive afforestation.

(5) All are correct.

Answer Key - 5

Solution -

All the sentences are grammatically correct and make sense. Hence, option (e) is the correct answer.

25. In the question given below, four sentences are given, revolving around the same or different theme or idea. Find out which of the sentence(s) is/are grammatically and meaningfully incorrect and mark the answer accordingly.

- (1) Athens might have been a highly exclusionary political community, pushing slaves, women and foreigners to the margins, but there is no doubt that it was a political community where people came together to act for and deliberate about the common good.
- (2) Universities are neither businesses nor political communities, but a third species of institution dedicated to the life of the mind.
- (3) There is no problem in principle with delegating a lot of the day-to-day management to administrators, but to transfer all strategically decision-making power to the experts is to condemn oneself to an unfree existence.

(4) Thirty years ago socialism was dead and buried.

(5) All are correct

Answer Key - 3

Solution -

The adverb 'strategically' is incorrectly used in C. The adjective 'strategic' will correctly modify the noun 'decision-making'. Option C is the correct answer.

26. A sentence is given in which certain words are highlighted. Choose the option with the pair(s) of words that need to be interchanged to make the sentence grammatically and contextually correct. If no change is required mark "No change required" as your answer. The Coastal Regulation Zone (CRZ), 2018 notification **approved (A)** by the Ministry of Environment, Forest and Climate Change (MoEFCC) has **expansion (B)** some of its stringent **provisions (C)** to permit the **revoked (D)** of development activities into the environmentally sensitive areas (ESAs), hitherto deemed **inaccessible (E)** by law.

- (1) B-D
- (2) D-C
- (3) C-E & A-D
- (4) A-B
- (5) No change required

Answer Key - 1

Solution -

Upon reading, A, C and E seem to provide meaning at their respective places, but B and D seem out of place. B needs a verb and D needs a noun. By interchanging the position of 'expansion' and 'revoked', the sentence will become grammatically and contextually correct. Hence, option A is the answer.

Option based shortcut approach:

Even in the first read we know that B needs to be changed. B is changed in only option A and D. Upon quickly verifying, we see that option D does not make sense, thus giving us the correct answer as option A.

27. In each of the following questions, a part of the sentence has been highlighted. You need to identify which of the given option can both grammatically and contextually replace the highlighted part. In case the highlighted part is correct, mark option E as your answer. Within days of his death, they went to the home of his widow and daughters to conduct an early-morning search but **drew a point**.

- (1) withdrew a point
- (2) drew a blank
- (3) draped a blank
- (4) found a blank
- (5) No correction required

Answer Key - 2

Solution -

'Drew a point'- incorrect idiom usage; the correct idiom in the given context would be 'drew a blank' which means elicit no successful response; fail. Hence, B is the right answer. Other options would make the sentence incoherent (contextual misfits).

28. In each of the following questions, a part of the sentence has been highlighted. You need to identify which of the given options can both grammatically and contextually replace the highlighted part. In case the highlighted part is correct, mark option E as your answer. "**Probably are a** powerful and troublesome test and it is by this troublesome standard that a large portion of historical evidence is sifted.

- (1) Probably is a
- (2) Probability are a
- (3) Probability is a
- (4) Probability are an
- (5) No correction required

Answer Key - 3

Solution -

A is incorrect because 'probably' is an adverb but here we need a noun as a subject in the beginning of the sentence. 'Probability' is the noun that will make the sentence correct and also act as a subject for the given sentence. B and D are incorrect for the following reasons: 1) 'Is' will be used for singular noun 'probability' and 2) the use of 'an' will be incorrect as the next word is 'powerful', which

starts with a consonant sound; 'a' will be the correct article here. Hence, option C is the correct answer.

29. In each of the following questions, a part of the sentence has been highlighted. You need to identify which of the given options can both grammatically and contextually replace the highlighted part. In case the highlighted part is correct, mark option E as your answer. A key U.S.-based study in the 1980s coined the terms 'community severance' or 'barrier effect' to describe the way in which road infrastructure, while helping create some connections, can inhibit other connections by **creating a barrier in** people and their needs and activities.

- (1) Creating a barrier between
- (2) Creating a barrier under
- (3) Creating a barrier for
- (4) Creating a barrier among
- (5) No correction required

Answer Key - 1

Solution -

The sentence tells us about a barrier and mentions two entities - 'people' and 'their needs and activities'. 'Between' is the right preposition to be used here, to convey the intended meaning of separation of people and their needs and activities. Only A uses this preposition and hence is the right answer.

30. In each of the following questions, a part of the sentence has been highlighted. You need to identify which of the given options can both grammatically and contextually replace the highlighted part. In case the highlighted part is correct, mark option E as your answer. While the candidate favours engagement **off the Western** powers, her populist stance, both on the domestic and foreign policy fronts, has not impressed observers in Brussels or in Washington.

- (1) Within the Western
- (2) For the Western
- (3) In the Western
- (4) With the Western
- (5) No correction required

Answer Key - 4

Solution -

The sentence talks about the candidates' views about engaging the Western powers. The highlighted part is incorrect as 'off' cannot relate 'engagement' and 'Western powers' to convey the intended meaning. A, B and C are incorrect for the same reason - the prepositions in the beginning fail to relate the two entities. 'With' is the right preposition, used only by D. So, D is the right answer.

31. Ravi borrowed some money at the rate of 4 p.c.p.a. for the first three years, at the rate of 8 p.c.p.a. for the next two years and at the rate of 9 p.c.p.a. for the period beyond 5

years. If he pays a total simple interest of 19,550 at the end of 7 years, how much money did he borrow?

- (1) 39,500
- (2) 42,500
- (3) 41,900
- (4) 43,000
- (5) None of these

Answer Key - 2

Solution -

Let the amount borrowed be Rs P

Total amount of simple interest =

$$\frac{Px3x4}{100} + \frac{Px2x8}{100} + \frac{Px2x9}{100} = 19550$$

$$0.12P + 0.16P + 0.18P = 19550$$

$$0.46P = 19550$$

$$P = \text{Rs}42500$$

Option 2

32. To complete a piece of work, P and Q together take $5\frac{5}{11}$ days, Q and R together take $6\frac{2}{3}$ days and R and P together take 6 days. If all of them started together, in how many days, will the work be completed?

- (1) 3
- (2) 3.5
- (3) 4
- (4) 4.5
- (5) 5

Answer Key - 3

Solution -

Let P alone, Q alone and R alone can complete the work in 'p' days, 'q' days and 'r' days.

$$\text{So, } 1/p + 1/q = 11/60..(i)$$

$$1/q + 1/r = 3/20..(ii)$$

$$1/r + 1/p = 1/6..(iii)$$

So, (i) + (ii) + (iii) gives,

$$2(1/p + 1/q + 1/r) = 11/60 + 3/20 + 1/6$$

$$\Rightarrow 1/p + 1/q + 1/r = 1/4$$

So, together they can complete the work in 4 days

33. An alloy contains Zinc and Copper in the ratio 5 : 8 and another alloy contains zinc and copper in the ratio 5 : 3. If equal amounts of both the alloys are melted together then the ratios of zinc and copper in the resulting alloy is

- (1) 25 : 24
- (2) 3 : 8
- (3) 103 : 105
- (4) 105 : 103
- (5) None of these

Answer Key - 4

Solution -

Weight of zinc in first alloy = $5/13$

Weight of zinc in second alloy = $5/8$

Weight of copper in first alloy = $8/13$

Weight of copper in second alloy = $\frac{3}{8}$

Total Weight of zinc in new alloy = $\frac{5}{13} + \frac{5}{8} = \frac{105}{104}$

Total Weight of copper in new alloy = $\frac{8}{13} + \frac{3}{8} = \frac{103}{104}$

Ratio of zinc:copper in new alloy = $\frac{105}{104} : \frac{103}{104} = 105 : 103$

34. The present age of B is 50% more than that of A and the present age of A is 75% of the present age of C. If the difference between the present ages of B and C is 4 years, then what is the average of the present ages of A, B and C?

- (1) 30.67 years
- (2) 25.34 years
- (3) 22.56 years
- (4) 32.78 years
- (5) 29.67 years

Answer Key - 1

Solution -

Let the present age of C = x years

So, the present age of A = 75% of x = $0.75x$ years

And the present age of B = 150% of $0.75x = 1.125x$ years

According to the question-

$$1.125x - x = 4$$

$$0.125x = 4$$

$$x = 32$$

The present age of C = 32 years

The present age of A = $0.75x = 24$ years

The present age of B = $1.125x = 36$ years

Required average = $(24 + 32 + 36)/3 = 30.67$ years

35. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option. I. $x^2 + 11x + 18 = 0$ II. $y^2 - 5y - 150 = 0$

- (1) $x < y$
- (2) $x > y$
- (3) $x \leq y$
- (4) $x \geq y$
- (5) $x = y$ or relationship cannot be established

Answer Key - 5

Solution -

From equation I:

$$x^2 + 11x + 18 = (x + 2)(x + 9) = 0$$

$$\Rightarrow x = -2, -9$$

From equation II:

$$y^2 - 5y - 150 = (y + 10)(y - 15) = 0$$

$$\Rightarrow y = -10, 15$$

	$x = -2$	$x = -9$
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$Y = -10$	$x > y$	$x > y$
$Y = 15$	$x < y$	$x < y$

So, relationship cannot be established between x and y

36. Price of an item is marked up 150% over its cost price. If it is sold at discount of Rs.400, then it gives 100% profit. How much percentage discount should be given on the item to get profit of Rs.600?

- (1) 45%
- (2) 30%
- (3) 40%
- (4) 50%
- (5) 35%

Answer Key - 2

Solution -

Let cost price of item be C

Marked price = $2.5C$

As per given,

$$2.5C - 400 = 2C$$

$$0.5C = 400$$

$$C = \text{Rs.}800$$

$$\text{Marked price} = 2.5 \times 800 = \text{Rs.}2000$$

$$\begin{aligned} \text{Selling price to get Rs.600 profit} &= \\ 800 + 600 &= \text{Rs.}1400 \end{aligned}$$

$$\begin{aligned} \text{Percentage discount} &= ((2000- \\ 1400)/2000) \times 100\% \end{aligned}$$

$$= (600/2000) \times 100\%$$

$$= 30\%.$$

37. Population of a town in 2014 was 2 Lakh. In 2015, it is increased by 10%. Ratio of the population of the town in 2015 and 2016 is 11:9 respectively. Population of the town in 2017 is increased by 20% from the previous year and respective ratio of the population of the town in 2017 and population of the town in 2018 is 6:7 respectively. Find the respective ratio of the population of the town in 2014 and in 2018.

- (1) 49:71
- (2) 45:62
- (3) 50:63
- (4) 38:55
- (5) None of these

Answer Key - 3

Solution -

$$\begin{aligned} \text{Population of the town in 2014} &= \\ 200000 \end{aligned}$$

$$\begin{aligned} \text{Population of the town in 2015} &= \\ 200000 \times (100 + 10)/100 \end{aligned}$$

$$= 200000 \times 110/100$$

$$= 220000$$

$$\begin{aligned} \text{Population of the town in 2016} &= \\ 9/11 \times 220000 &= 180000 \end{aligned}$$

$$\begin{aligned} \text{Population of the town in 2017} &= \\ 180000 \times (100 + 20)/100 \end{aligned}$$

$$= 180000 \times 120/100$$

= 216000

Population of the town in 2018 = $\frac{7}{6}$
 $\times 216000 = 252000$

Required ratio = $200000 : 252000 =$
 $50:63$

38. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option. I. $x^2 - 14x + 45 = 0$ II. $y^2 + 21y - 22 = 0$

- (1) $x < y$
- (2) $x > y$
- (3) $x \leq y$
- (4) $x \geq y$
- (5) $x = y$ or relationship cannot be established

Answer Key - 2

Solution -

From equation I:

$x^2 - 14x + 45 = (x - 9)(x - 5) = 0$

$\Rightarrow x = 9, 5$

From equation II:

$y^2 + 21y - 22 = (y - 1)(y + 22) = 0$

$\Rightarrow y = 1, -22$

	X = 9	X = 5
Y = 1	$x > y$	$x > y$
Y = -22	$x > y$	$x > y$

So, $x > y$

39. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option. I. $x^2 + 22x - 48 = 0$ II. $y^2 - 23y + 120 = 0$

- (1) $x < y$
- (2) $x > y$
- (3) $x \leq y$
- (4) $x \geq y$
- (5) $x = y$ or relationship cannot be established

Answer Key - 1

Solution -

From equation I:

$x^2 + 22x - 48 = (x - 2)(x + 24) = 0$

$\Rightarrow x = 2, -24$

From equation II:

$y^2 - 23y + 120 = (y - 8)(y - 15) = 0$

$\Rightarrow y = 8, 15$

	X = 2	X = -24
Y = 8	$x < y$	$x < y$
Y = 15	$x < y$	$x < y$

So, $x < y$

40. If, in 2015, the import of USA, India and China was \$660 billion, \$420 billion and \$500 billion respectively, what is the average of their exports in 2015?

- (1) \$588 billion

- (2) \$592 billion
- (3) \$601 billion
- (4) \$612 billion
- (5) \$621 billion

Answer Key - 3

Solution -

export of USA in 2015 = $0.8 \times 660 =$
\$528 billion

export of India in 2015 = $1.25 \times 420 =$
\$525 billion

export of China in 2015 = $1.5 \times 500 =$
\$750 billion

Required average = $(528 + 525 +$
 $750)/3 =$ \$601 billion

41. If the export of India and China in 2016 is \$540 billion and \$858 billion respectively, what is the sum of their surpluses?

- (1) \$558 billion
- (2) \$542 billion
- (3) \$568 billion
- (4) \$586 billion
- (5) \$592 billion

Answer Key - 1

Solution -

import of India in 2016 = $540/1.2 =$
\$450 billion

import of China in 2016 = $858/2.2 =$
\$390 billion

Surplus of India = $540 - 450 =$ \$90
billion

Surplus of China = $858 - 390 =$ \$468
billion

Required sum = $90 + 468 =$ \$558
billion

42. If the ratio of USA's import in 2017 and 2018 is 5:12, what is its percentage increase in export from 2017 to 2018?

- (1) 30%
- (2) 25%
- (3) 15%
- (4) 10%
- (5) 20%

Answer Key - 5

Solution -

Let the import of USA in 2017 and 2018 be \$5k billion and \$12k billion respectively.

export of USA in 2017 = $5k \times 1.2 =$ \$ 6k
billion

export of USA in 2018 = $12k \times 0.6 =$ \$
7.2k billion

Required percentage increase =
 $((7.2k - 6k)/6k) \times 100\% = 20\%$

43. If the export of India halved in 2018 from that in 2017, what is its percentage decrease in its import from 2017 to 2018?

- (1) 25%
- (2) 40%
- (3) 55%
- (4) 75%
- (5) 60%

Answer Key - 4

Solution -

Let the export of India in 2018 and 2017 be \$ x billion and \$ 2x billion respectively.

import of India in 2017 = $2x/0.75 = \$ 8x/3$ billion

import of India in 2018 = $x/1.5 = \$ 2x/3$ billion

Required percentage decrease = $((8x/3 - 2x/3)/(8x/3)) * 100\% = 75\%$

44. If the import of China in 2017 and 2018 is \$ 450 billion and \$ 480 billion respectively, what is the increase in its surplus from 2017 to 2018?

- (1) \$290 billion
- (2) \$225 billion
- (3) \$285 billion
- (4) \$245 billion
- (5) \$255 billion

Answer Key - 3

Solution -

export of China in 2017 = $450 * 2.5 = \$ 1125$ billion

export of China in 2018 = $480 * 3 = \$ 1440$ billion

Surplus in 2017 = $1125 - 450 = \$ 675$ billion

Surplus in 2018 = $1440 - 480 = \$ 960$ billion

Increase in surplus = $960 - 675 = \$ 285$ billion

45. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option. I. $10x^2 - 13x + 4 = 0$ II. $y^2 - 24y + 108 = 0$

- (1) $x < y$
- (2) $x > y$
- (3) $x \leq y$
- (4) $x \geq y$
- (5) $x = y$ or relationship cannot be established

Answer Key - 1

Solution -

From equation I:

$$10x^2 - 13x + 4 = (5x - 4)(2x - 1) = 0$$

$$\Rightarrow x = 4/5, 1/2$$

From equation II:

$$y^2 - 24y + 108 = (y - 6)(y - 18) = 0$$

$$\Rightarrow y = 6, 18$$

	$x = 4/5$	$x = 1/2$
$Y = 6$	$x < y$	$x < y$
$Y = 18$	$x < y$	$x < y$

So, $x < y$

46. Arun started a business in partnership with Renu with an investment $2/3$ times the investment of Renu. After one-third of the time

in business, Renu left. If the business lasted 2 years and Arun received a profit of 13450 rupees, how much was the total profit (in rupees)?

- (1) 20175
- (2) 15670
- (3) 23450
- (4) 17865
- (5) 18570

Answer Key - 1

Solution -

Let investment of Renu = a

Investment of Arun = $2a/3$

Period of investment of Renu = $2/3$ years

Period of investment of Arun = 2 years

Therefore, profit ratio, Arun: Renu = $(2a/3) \times 2 : a \times (2/3) = 2:1$

Let the total profit = Rs. P

Share of Arun = Total profit * $2/(2+1)$

$13450 = P * 2/3$

P = Rs. 20175

47. Find the difference between number of students who like only Java and only Python.

- (1) 120
- (2) 180
- (3) 90
- (4) 160

(5) None of these

Answer Key - 3

Solution -

Required difference = $270 - 180 = 90$

48. Find the total number of students who like C++.

- (1) 282
- (2) 364
- (3) 342
- (4) 246
- (5) None of these

Answer Key - 3

Solution -

Required number of students = $135 + 90 + 45 + 72 = 342$

49. Find the number of students who like all the three programming languages.

- (1) 60
- (2) 45
- (3) 90
- (4) 135
- (5) None of these

Answer Key - 2

Solution -

Required number of students = 45

50. Number of students who like only Java is what percent of the total number of students?

- (1) 20%
- (2) 15%
- (3) 30%
- (4) 25%
- (5) None of these

Answer Key - 3

Solution -

Required percentage = $\frac{270}{900} \times 100$
= 30%

51. Find the total number of students who like C++ but not Python.

- (1) 225
- (2) 345
- (3) 130
- (4) 270
- (5) None of these

Answer Key - 1

Solution -

Required number of students = $135 + 90 = 225$

52. Sudeep row 42 km upstream and 54 km downstream taking 5 hours each time. If the speed of stream become half and his speed in still water remains unchanged then how much time will he take to row 37.8 km upstream?

- (1) 4.5 hours
- (2) 4.2 hours
- (3) 6.5 hours
- (4) 6 hours
- (5) None of the above

Answer Key - 2

Solution -

Let the speed of Sudeep in still water = u km per hour

The speed of the stream = v km per hour

Upstream speed of Sudeep = $u - v = \frac{42}{5} = 8.4$ km per hour ---- (i)

Downstream speed = $u + v = \frac{54}{5} = 10.8$ km per hour ----- (ii)

Speed of stream = 1.2km/hr

New speed of stream = 0.6km/h

Speed of boat in still water = 9.6km/hr

The total time taken to go 37.8 km upstream = $\frac{37.8}{9} = 4.2$ hours

53. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option. I. $x^2 + 24x + 108 = 0$ II. $y^2 + 11y + 30 = 0$

- (1) $x < y$
- (2) $x > y$
- (3) $x \leq y$
- (4) $x \geq y$
- (5) $x = y$ or relationship cannot be established

Answer Key - 3

Solution -

From equation I:

$$x^2 + 24x + 108 = (x + 18)(x + 6) = 0$$

$$\Rightarrow x = -18, -6$$

From equation II:

$$y^2 + 11y + 30 = (y + 5)(y + 6) = 0$$

$$\Rightarrow y = -5, -6$$

	X = -18	X = -6
Y = -5	x < y	x < y
Y = -6	x < y	x = y

So, $x \leq y$

54. The percentage of expenditure spent on marketing by companies A and B is 25% and 40% respectively. If the ratio of their expenditure on marketing is 5:7 and the sum of their total expenditure is Rs 300 crore, what is the expenditure of company A?

- (1) Rs 140 crore
- (2) Rs 155 crore
- (3) Rs 165 crore
- (4) Rs 160 core
- (5) Rs 145 crore

Answer Key - 4

Solution -

Let the expenditure of company A be Rs 'x' crore

Expenditure of company B = Rs (300 - x) crore

$$\text{So, } (25/100) * x : (40/100) * (300 - x) = 5:7$$

$$\Rightarrow x/(300 - x) = 8/7$$

$$\Rightarrow 7x = 2400 - 8x$$

$$\Rightarrow x = 160$$

55. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.) 180.03% of 769.99 + ?% of 99.95 = 1406

- (1) -15
- (2) 20
- (3) -20
- (4) -30
- (5) 30

Answer Key - 2

Solution -

$$?\% \text{ of } 100 = 1406 - 180\% \text{ of } 770$$

$$?\% \text{ of } 100 = 1406 - 180 \times 770/100 = 1406 - 1386 = 20$$

$$? = 20 \times 100/100 = 20$$

56. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.) $2128.02 \div 38.02 \times 41.00 = ? + 27.98$

- (1) 2253
- (2) 2193
- (3) 2388
- (4) 2313
- (5) 2268

Answer Key - 5

Solution -

$$? = 2128 \div 38 \times 41 - 28$$

$$= 56 \times 41 - 28$$

$$= 2296 - 28 = 2268$$

57. What approximate value will come in place of question mark (?) in the following question?

$$700.03 \boxed{5.03} - 14.99 \times 14.03 + \sqrt[3]{1330.96} = ?$$

(1) -71

(2) -59

(3) -35

(4) -74

(5) -38

Answer Key - 2

Solution -

$$? \approx (700/5) - 15 \times 14 + \sqrt[3]{1331}$$

$$= 140 - 210 + 11$$

$$= -59$$

58. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.) 15.02% of $579.96 + 40.02\%$ of $744.99 = ?$

(1) 325

(2) 465

(3) 385

(4) 355

(5) 395

Answer Key - 3

Solution -

$$? \approx (15 \times 580/100) + (40 \times 745/100)$$

$$= (8700/100) + (29800/100)$$

$$= 87 + 298 = 385$$

59. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.) 19.88% of $729.90 + \sqrt{288.89} = 54.07 + ?$

(1) 172

(2) 165

(3) 88

(4) 81

(5) 109

Answer Key - 5

Solution -

$$? \approx (20 \times 730/100) + \sqrt{289} - 54$$

$$= 146 + 17 - 54$$

$$= 109$$

60. The total number of children living on second floor and first floor together is how many more than that of the children living on fifth floor and ground floor together?

(1) 76

(2) 74

(3) 84

(4) 96

(5) None of the above

Answer Key - 1

Solution -

The total number of children living on second floor and third floor together
 $= 225 + 153 = 378$

The total number of children living on fifth floor and ground floor together
 $= 190 + 112 = 302$

The required difference $= 378 - 302 = 76$

61. In the apartment, the number of men is how many more than that of women?

- (1) 344
- (2) 286
- (3) 198
- (4) 246
- (5) None of the above

Answer Key - 4

Solution -

In the apartment,

The total number of men $= 1919$

The total number of women $= 1673$

The required difference $= 1919 - 1673 = 246$

62. In the apartment, for the association leader election, two candidates Ramlal and Rajulal contested the election. 12 residents didn't vote either of the candidates. Ramlal got 62.5% of the total valid

votes and 20% of the total number of votes were declared invalid then, by how much votes winner won the election? (assume that children were not allowed to vote)

- (1) 824
- (2) 716
- (3) 928
- (4) 668
- (5) 802

Answer Key - 2

Solution -

The total number of residents except children $= 1919 + 1673 = 3592$

The total number of residents participated in the election $= 3592 - 12 = 3580$

The total number of valid votes $= 80\%$ of 3580 $= 2864$

The total number of valid votes received by Ramlal $= 62.5\%$ of 2864 $= 1790$

The total number of votes received by Rajulal $= 2864 - 1790 = 1074$

The required answer $= 1790 - 1074 = 716$

63. 17 (9/23)% of the total number of children left the apartment to go outstation for studies then how many of children were left in the apartment?

- (1) 884
- (2) 924

- (3) 812
 (4) 854
 (5) None of the above

Answer Key - 5

Solution -

The total number of children = 1058

The total number of children left the apartment = $17 \frac{9}{23}\%$ of 1058 = $400 \times 1058 / (23 \times 100) = 184$

The total number of children left in the apartment = $1058 - 184 = 874$

64. Among the total number of residents living in the apartment, 40% were non-vegetarian then how many of vegetarian were living in the apartment?

- (1) 2260
 (2) 2970
 (3) 2640
 (4) 2790
 (5) None of the above

Answer Key - 4

Solution -

The total number of residents living in the apartment = 4650

The total number of vegetarian = $(100 - 40)\%$ of 4650 = 60% of 4650 = 2790

65. The curved surface area of a cone is double the area of its base. If the sum of the height and radius of the

cone is 68.3 cm, what is its radius?
 [Take $\sqrt{3} = 1.732$]

- (1) 20 cm
 (2) 25 cm
 (3) 15 cm
 (4) 30 cm
 (5) 35 cm

Answer Key - 2

Solution -

Let the radius, height and slant height of the cone be 'r' cm, 'h' cm and 'l' cm respectively.

$$\text{So, } \pi r l = 2\pi r^2$$

$$l = 2r$$

$$\sqrt{(h^2 + r^2)} = 2r$$

$$h^2 + r^2 = 4r^2$$

$$h = r\sqrt{3}$$

$$h = 1.732r$$

$$\text{Now, } h + r = 68.3$$

$$2.732r = 68.3$$

$$r = 25$$

66. Which combination of day, channel and programme is correct?

- (1) Thursday-C-R
 (2) Tuesday-C-Q
 (3) Saturday-E-U
 (4) Monday-E-P
 (5) None of these

Answer Key - 4

Solution -

Channel E telecasts programme P on Monday.

67. Which channel telecasts programme 'S'?

- (1) E
- (2) D
- (3) F
- (4) D or E
- (5) None of these

Answer Key - 2

Solution -

Channel D telecasts programme S.

68. Channel 'C' telecasts on which day of the week?

- (1) Thursday
- (2) Tuesday
- (3) Friday
- (4) Cannot be determined
- (5) None of these

Answer Key - 1

Solution -

Channel C telecasts on Thursday.

69. Which channel telecasts on Wednesday?

- (1) F
- (2) E
- (3) G
- (4) Cannot be determined

(5) None of these

Answer Key - 3

Solution -

Channel G telecasts on Wednesday.

70. Which programme is telecast just before the day channel B telecasts its programme?

- (1) P
- (2) S
- (3) R
- (4) U
- (5) None of these

Answer Key - 1

Solution -

Programme P is telecast just before channel B telecasts its programme.

71. Who had interview on 19th July?

- (1) U
- (2) R
- (3) P
- (4) S
- (5) Nobody

Answer Key - 5

Solution -

Nobody had interview on 19th July.

72. How many people had their interview before V?

- (1) 1
- (2) 2

- (3) 3
(4) 4
(5) 5

Answer Key - 2

Solution -

2 people had their interview before V.

73. How many people had their interview between S and Q?

- (1) 1
(2) 2
(3) 3
(4) 4
(5) 5

Answer Key - 3

Solution -

3 people had their interview between S and Q.

74. On which date Q had his interview?

- (1) 23rd June
(2) 23rd July
(3) 19th June
(4) 19th august
(5) 16th august

Answer Key - 5

Solution -

Q had his interview on 16th august.

75. Who among the following had interview after V? I. QII. SIII. T

- (1) I only
(2) I and III
(3) II and III
(4) All three
(5) III only.

Answer Key - 2

Solution -

Q and T had interview after V.

76. How many such pairs of letters are there in the word 'IMAGINATION' each of which has as many letters between them in the word as in the English alphabet in both forward and backward directions?

- (1) 3
(2) 4
(3) 6
(4) 0
(5) 7

Answer Key - 1

Solution -

I	M	A	G	I	N	A	T	I	O	N
9	13	1	7	9	14	1	20	9	15	14

The pairs are: IN, GN, ON

Hence 3 such pairs.

77. In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide

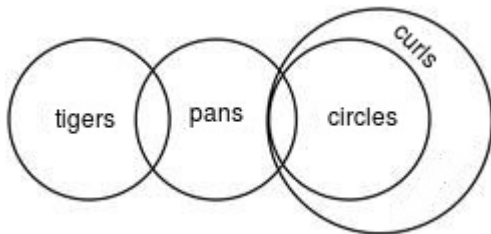
which of the given conclusions logically follows from the given statements disregarding commonly known facts. **Statements:** Some tigers are pans. Some pans are circles. All circles are curls. **Conclusions:** I. Some curls are pans. II. Some curls are tigers.

- (1) If only Conclusion I follows.
- (2) If only Conclusion II follows.
- (3) If either Conclusion I or II follows.
- (4) If neither Conclusion I nor II follows.
- (5) If both Conclusions I and II follow.

Answer Key - 1

Solution -

The statements can be represented as:



Thus only conclusion I follows

78. In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from 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. **Statements:** Some remotes are books. Some books are

studs. All socks are remotes. **Conclusions:** I. Some socks are books. II. No book is a sock.

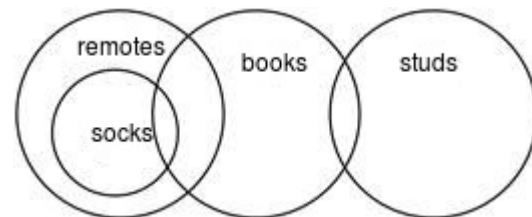
- (1) If only Conclusion I follows.
- (2) If only Conclusion II follows.
- (3) If either Conclusion I or II follows.
- (4) If neither Conclusion I nor II follows.
- (5) If both Conclusions I and II follow.

Answer Key - 3

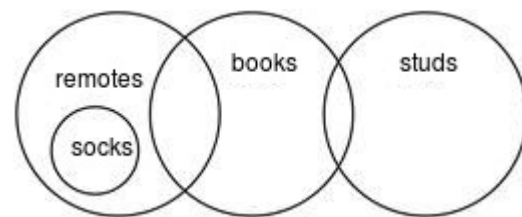
Solution -

We have two possible cases:

Case I: Some socks are books.



Case II: No book is a sock.



Hence either conclusion I or conclusion II follows.

79. In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions

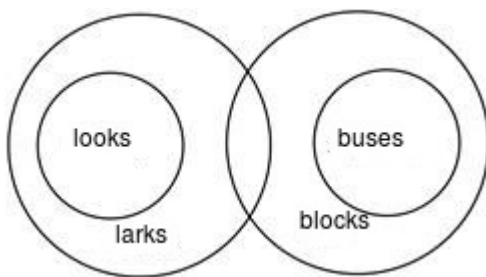
logically follows from the given statements disregarding commonly known facts. **Statements:** All looks are larks. No lark is a bus. All buses are blocks. **Conclusions:** I. No block is a lark. II. No look is a bus.

- (1) If only Conclusion I follows.
- (2) If only Conclusion II follows.
- (3) If either Conclusion I or II follows.
- (4) If neither Conclusion I nor II follows.
- (5) If both Conclusions I and II follow.

Answer Key - 2

Solution -

A possible representation is:



If some looks are buses, some buses would be larks, which contradicts the given statement.

80. Who amongst the following sits third to the right of A?

- (1) D
- (2) E
- (3) F
- (4) A
- (5) None of these

Answer Key - 3

Solution -

F sits third to the right of A

81. If all the people are made to sit in alphabetical order, in clockwise direction, starting from A, the position of whom amongst the following remains the same (Excluding A)?

- (1) E
- (2) F
- (3) C
- (4) G
- (5) None of these

Answer Key - 2

Solution -

Previous order: AHGCBFDE

New order: ABCDEFGH

The position of F remains the same.

82. Four of the following five are alike in a certain way, based on the information given above and so form a group. Which is the one that does not belong to that group?

- (1) HA
- (2) DE
- (3) GC
- (4) FH
- (5) AE

Answer Key - 4

Solution -

F and H are opposite to each other.

83. Who amongst the following sits exactly neighbouring between F and C?

- (1) E
- (2) B
- (3) G
- (4) A
- (5) None of these

Answer Key - 2

Solution -

B sits neighbouring F and C

84. How many people are seated between A and C (counting clockwise from A)?

- (1) Two
- (2) Four
- (3) None
- (4) One
- (5) Three

Answer Key - 1

Solution -

H and G are seated between A and C.

85. Who is sitting to the immediate left of E?

- (1) A
- (2) J
- (3) K
- (4) D
- (5) None of these

Answer Key - 2

Solution -

J is sitting to the immediate left of E.

86. Who is sitting between J and F?

- (1) A
- (2) D
- (3) E
- (4) More than one of them
- (5) No One

Answer Key - 1

Solution -

A is sitting between J and F

87. Who is sitting second to the left of A?

- (1) E
- (2) K
- (3) D
- (4) I
- (5) None of these

Answer Key - 3

Solution -

D is sitting second to the left of A

88. If all people are made to sit in alphabetical order starting from left end of the row and all facing north, position of how many person(s) will remain unchanged?

- (1) One
- (2) Two
- (3) Three
- (4) Four
- (5) None

Answer Key - 5

Solution -

Old positions: K E J A F D G I

New position: A D E F G I J K

Position every person is changed hence answer is 0.

89. How many person(s) are sitting between E and D?

- (1) One
- (2) Two
- (3) Three
- (4) Four
- (5) None of these

Answer Key - 3

Solution -

Three persons, J, A and F are sitting between E and D.

90. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer. $D > L$; $E < K$; $K = D$; $L < M$. $M > D$. $E < L$

- (1) Only I follow
- (2) None follow
- (3) Both I and II follow
- (4) Only II follow
- (5) Either I or II follow

Answer Key - 2

Solution -

We get:

$M > L < D$, So I does not follows.

$L < D = K > E$, So II does not follows.

91. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer. $G > D$; $D \geq F$; $A < F$; $A \geq H$. $D > H$. $F < G$

- (1) Only I follow
- (2) Only II follow
- (3) Both I and II follow
- (4) None follow
- (5) Either I or II follow

Answer Key - 3

Solution -

We get:

$D \geq F > A \geq H$

So $D > H$. Hence I follows

$G > D \geq F$. So II follows.

92. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer. $M < L$; $L \leq U$; $U > D$. $D > M$. $D \leq M$

- (1) Only I follow
- (2) Only II follow
- (3) None follow
- (4) Both I and II follow
- (5) Either I or II follow

Answer Key - 5

Solution -

If $D > L$, then $D > L > M$.

So I follow

If $D \leq L \leq M$, So II follow

So either I or II follows.

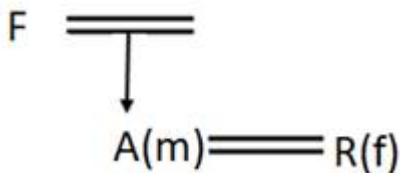
93. In a family across three generations, A is the only child of F. R is the wife of A. K is the only daughter of R. Z is the paternal grandfather of M. How is M related to K?

- (1) Sister
- (2) Cousin
- (3) Aunt
- (4) Brother
- (5) Can't be determined

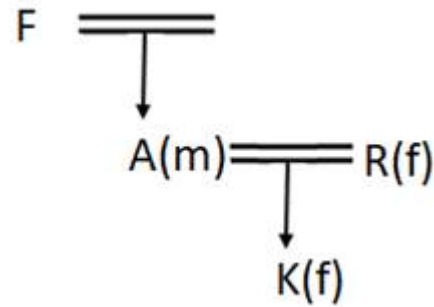
Answer Key - 4

Solution -

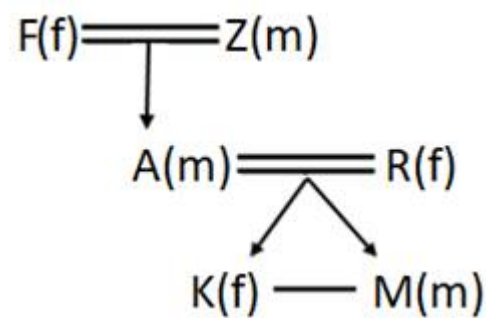
A is the only child of F. R is the wife of A.



K is the only daughter of R.



Z is the paternal grandfather of M. So, M must be the son of R and Z must be the husband of F.



Hence, M is the brother of K.

94. In the following question, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer. $B \geq V \geq N$; $K = B < J$; $J < T = R \leq W$; I. $W > N$ II. $K < R$

- (1) Only I follow
- (2) Only II follow
- (3) Both I and II follow
- (4) None follow
- (5) Either I or II follow

Answer Key - 3

Solution -

$$W \geq R = T > J > B \geq V \geq N$$

So I follow

$$R = T > J > B = K$$

So II follows

95. In the following question, the statement is followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer. $Z > R = C \leq K \leq M \leq P = W$. $W < Z$. $W > Z$

- (1) Only I follow
- (2) Both I and II follow
- (3) Only II follow
- (4) Either I or II follow
- (5) None follow

Answer Key - 5

Solution -

Since the direct relation between W and Z cannot be established so neither I nor II follows.

96. What could be the code for "86 55 34"?

- (1) red blue white
- (2) green white purple
- (3) black green red
- (4) white red purple
- (5) brown black blue

Answer Key - 5

Solution -

the code for "86 55 34" is "brown black blue".

97. What is the code for 31?

- (1) red
- (2) white
- (3) brown
- (4) black
- (5) cannot be determined

Answer Key - 5

Solution -

the code for 31 can either be white or red.

98. If the code for 47 55 31 is purple brown red, then what is the code for 42?

- (1) white
- (2) brown
- (3) green
- (4) black
- (5) cannot be determined

Answer Key - 1

Solution -

If the code for 47 55 31 is purple brown red, then code of 42 is white.

99. What could be the statement for "green blue brown"?

- (1) (1) 55 86 47
- (2) (2) 79 47 31
- (3) (3) 79 86 55
- (4) (4) 79 47 55
- (5) (5) 55 86 34

Answer Key - 3

Solution -

the statement for "green blue brown" is 79 86 55.

100. What could be the statement for "green purple"?

- (1) (1) 79 34
- (2) (2) 55 86
- (3) (3) 86 34
- (4) (4) 79 47
- (5) none of these

Answer Key - 4

Solution -

the statement for "green purple" is 79 47.

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