

PRACTICE **MOCK**

RBI ASSISTANT

PREVIOUS YEAR PAPER
WITH DETAILED SOLUTIONS

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RBI Assistant Previous Year Paper – English Section

Directions: Read the following passage and answer the questions.

The term 'Biofuel' refers to liquid or gaseous fuels for the transport sector that are predominantly produced from biomass. A variety of fuels can be **produced** from biomass resources including liquid fuels such as ethanol, methanol, biodiesel, Fischer-Tropsch diesel, and gaseous fuels such as hydrogen and methane.

The first-generation liquid biofuels are made from sugar, starch, vegetable oils or animal fats using conventional technology. The basic feedstocks for the production of first-generation biofuels come from agriculture and food processing. The second-generation technologies use a wider range of biomass resources – agriculture, forestry and waste materials. Third-generation biofuels may include the production of bio-based hydrogen for use in fuel cell vehicles, e.g. algae fuel, also called oilgae.

Globally, liquid biofuels are most commonly used to power vehicles, heat homes and for cooking. Biofuels offer many benefits including sustainability, less greenhouse gas emissions, regional development, wasteland agriculture and security of supply.

The biomass resource base is composed of a wide variety of forestry and agricultural resources, industry residues and municipal solid and urban wood residues. The forest resources include residues produced during the harvesting of forest produce, fuel wood etc. Some forest resources also become available through initiatives to reduce fire hazards and improve forest health.

The agricultural resources include grains used for biofuels production, animal manures and crop residues derived primarily from corn and small grains (e.g., wheat straw). A variety of regionally **significant** crops such as cotton, sugarcane, rice and orchards can also be a source of crop residue. Municipal and urban wood residues are also widely available.

Other advanced biofuel feedstocks include non-plant sources such as fats, manure and the organic material found in urban waste. In addition, algae production has great promise because algae generate higher energy yields and require much less space to grow than conventional feedstocks. Also, algae would not compete with food crops for land and could be grown with minimal inputs using a variety of methods.

Question 1: As per the passage, what is Biofuel?

- A) It is a type of petroleum fuel which emits less carbon dioxide in the atmosphere.
- B) It is a type of non-viscous fuel which is produced from solid waste.
- C) It is a type of liquid or gaseous fuel which is produced from biomass.
- D) It is a type of fuel which is generated by industrial waste.
- E) It is a type of fuel which is formed by a homogenous mixture of petroleum and diesel.

Question 2: As per the passage, what are the components of biomass resource base?

- 1. All municipal residues
- 2. Industry residues
- 3. Forest resources
- 4. Agriculture resources

- A) Only 1 and 2
- B) Only 2, 3 and 4
- C) Only 1, 3 and 4
- D) Only 2 and 4
- E) All 1, 2, 3 and 4

Question 3: As per the passage, why algae production has great promise as a biofuel feedstock?

- 1. Because it generates higher energy yields
- 2. Because it requires more space to grow than conventional feedstocks
- 3. Because it competes with other food crops for land

- A) Only 1
- B) Only 2 and 3
- C) Only 1 and 3
- D) Only 3
- E) All 1, 2 and 3

Question 4: As per the passage, which of the following fuels cannot be obtained from biomass resources?

1. Diesel
 2. Methanol
 3. Ethanol
- A) Only 2
B) Only 3
C) Only 1
D) Only 1 and 2
E) All 1, 2 and 3

Question 5: As per the passage, which of the following is correctly matched?

1. First-generation liquid biofuels - forestry and waste materials
 2. Second-generation liquid biofuels - sugar, starch, vegetable oils
 3. Third-generation liquid biofuels - Bio-based hydrogen for fuel cell vehicles
- A) Only 1
B) Only 2 and 3
C) Only 3
D) Only 2
E) All 1, 2 and 3

Question 6: As per the passage, which of the following crops can be used as crop residue?

1. Cotton
 2. Rice
 3. Wheat
- A) Only 2
B) Only 1 and 2
C) Only 2 and 3

D) Only 3

E) All 1, 2 and 3

Question 7: Which of the following is closest in meaning to the word 'PRODUCED' as used in the passage?

A) Surrounded

B) Processed

C) Accessed

D) Disturbed

E) Infused

Question 8: Which of the following is the opposite in meaning to the word 'SIGNIFICANT' as used in the passage?

A) Intent

B) Event

C) Adamant

D) Unimportant

E) Crucial

Question 9:

In the question below, a sentence is given, divided into four parts, one of which may contain a grammatical error. From the options, choose the part containing the error, and mark that as your answer. In case the sentence is correct as it is, choose 'No error' as your answer.

A) The integration of technological

B) and innovative advancements

C) in this area can help curb the

D) seriously issue of food wastage.

E) No error

Question 10: In the question below, a sentence is given, divided into four parts, one of which may contain a grammatical error. From the options, choose the part containing the error, and

mark that as your answer. In case the sentence is correct as it is, choose 'No error' as your answer.

- A) Every civic body across India should be
- B) responsible for ensuring near total sewage
- C) treatment and ensuring that rivers and freshwater sources
- D) in and around there limits are not polluted by wastewater.
- E) No error

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Question 11: In the question below, a sentence is given, divided into four parts, one of which may contain a grammatical error. From the options, choose the part containing the error, and mark that as your answer. In case the sentence is correct as it is, choose 'No error' as your answer.

- A) One would have thought that with so many well-meaning
- B) and deeply committed individuals and groups who have
- C) consistently fought against social prejudice of various kinds,
- D) we would have found ways to counter prejudice.
- E) No error

Question 12: In the question below, a sentence is given, divided into four parts, one of which may contain a grammatical error. From the options, choose the part containing the error, and mark that as your answer. In case the sentence is correct as it is, choose 'No error' as your answer.

- A) Passed in 2016, the code was
- B) formulated to made the process
- C) of shutting down and exiting a
- D) business easier and less time-consuming.
- E) No error

Question 13: In the question below, a sentence is given, divided into four parts, one of which may contain a grammatical error. From the options, choose the part containing the error, and mark that as your answer. In case the sentence is correct as it is, choose 'No error' as your answer.

- A) One might wondered why the
- B) Canadian government chose to take
- C) such a momentous step armed
- D) with such a flimsy defence.
- E) No error

Question 14: In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.

The Supreme Court has _____ the trial until late December so that both parties will have time to prepare.

- A) tested
- B) calculated
- C) determined
- D) postponed
- E) None of the above

Question 15: In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.

The Prime Minister gave a nationwide _____ to the people following a horrific terrorist attack on the capital.

- A) address
- B) failure
- C) tour
- D) campaign
- E) None of the above

Question 16: In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.

Brussels is a beautiful city, so it cannot be described as a _____ tourist destination.

- A) agile
- B) esteem
- C) respectable
- D) mundane
- E) None of the above

Question 17: In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.

He had _____ refusing the invitations and visitors, which left limited time for work and his students.

- A) difficulty
- B) troubled
- C) shortcoming
- D) complaint
- E) ailment

Question 18: In the given question, a sentence has been broken into four parts and the parts are jumbled. Choose the option which provides the correct way to re-arrange the parts to form a grammatically and contextually meaningful sentence. If all the parts are correctly placed, mark (e) as your answer.

There has been (A)an exponential rise in(B)/ diet-related and lifestyle diseases(C)/ in our country.(D)

- A) ADBC
- B) CABD
- C) DACB
- D) ACBD

E) No rearrangement

Question 19: In the given question, a sentence has been broken into four parts and the parts are jumbled. Choose the option which provides the correct way to re-arrange the parts to form a grammatically and contextually meaningful sentence. If all the parts are correctly placed, mark (e) as your answer.

Weather experts claimed(A)/in the coming days(B)/would get more snow (C)/that the Himalayan region (D).

A) ADBC

B) BADC

C) DACB

D) ADCB

E) No rearrangement

Question 20: In the given question, a sentence has been broken into four parts and the parts are jumbled. Choose the option which provides the correct way to re-arrange the parts to form a grammatically and contextually meaningful sentence. If all the parts are correctly placed, mark (e) as your answer.

The state is all set (A)/ by displaying hygiene ratings (B)/on the doors of restaurants(C)/to enhance the dining experience(D)

A) BDAC

B) ADBC

C) CDAB

D) DBAC

E) No rearrangement

Question 21: In the given question, a sentence has been broken into four parts and the parts are jumbled. Choose the option which provides the correct way to re-arrange the parts to form a grammatically and contextually meaningful sentence. If all the parts are correctly placed, mark (e) as your answer.

sometimes fail to take into account that (A)/teachers should be qualified and acquainted (B)/the education outreach can (C)/with child psychology(D)

A) CBAD

B) DACB

- C) CABD
- D) ACBD
- E) No rearrangement

Question 22: In the given question, a word has been given and there are three ways in which the word has been used, in similar or different forms. You need to see which of the sentences have correctly used the highlighted word, and mark that as your answer.

Bow

1. The bird sat on the topmost **bow** of the tree.
2. We must all **bow** before the queen.
3. The hunter carried a **bow** and seven arrows.

- A) Only 2
- B) Only 1 and 2
- C) Only 1 and 3
- D) Only 2 and 3
- E) All 1, 2 and 3

Question 23: In the given question, a word has been given and there are three ways in which the word has been used, in similar or different forms. You need to see which of the sentences have correctly used the highlighted word, and mark that as your answer.

Mine

1. The blue bike is not **mine**.
2. The government decided to **mine** the southern part of the plateau.
3. He works in a gold **mine**.

- A) Only 1
- B) Only 1 and 2
- C) Only 1 and 3
- D) Only 2 and 3

E) All 1, 2 and 3

Question 24: In the given question, a word has been given and there are three ways in which the word has been used, in similar or different forms. You need to see which of the sentences have correctly used the highlighted word, and mark that as your answer.

Boot

1. I have bought a new pair of **boot**.
2. He found the lost keys in the **boot** of his car.
3. The manager **boot** James yesterday.

- A) Only 2
B) Only 1 and 2
C) Only 1 and 3
D) Only 2 and 3
E) All 1, 2 and 3

Question 25: In the given question, a word has been given and there are three ways in which the word has been used, in similar or different forms. You need to see which of the sentences have correctly used the highlighted word, and mark that as your answer.

Bat

1. A flock of **bat** flew in through the open window.
2. The sportsman happily signed his **bat** for the young fan.
3. She did not **bat** an eyelid when she was told that she had exhausted all her savings.

- A) Only 3
B) Only 1 and 2
C) Only 1 and 3
D) Only 2 and 3
E) All 1, 2 and 3

Question 26: In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelled in the sentence. Find out the word, which is wrongly spelled. If all the words are correctly spelled, mark (e) as your answer.

Obviously he can't make any **promises** but I am **confident** that he will look at the **arguements** carefully.

- A) obviously
- B) promises
- C) confident
- D) arguements
- E) All are correct

Question 27: In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelled in the sentence. Find out the word, which is wrongly spelled. If all the words are correctly spelled, mark (e) as your answer.

The air was **stale** and the dusty **atmosphere** was enough to make all of them **hesitent** to breathe **freely**.

- A) stale
- B) atmosphere
- C) hesitant
- D) freely
- E) All are correct

Question 28: In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelled in the sentence. Find out the word, which is wrongly spelled. If all the words are correctly spelled, mark (e) as your answer.

To most people, giraffes are **merely adorable**, long-necked animals that **rank** near the top of a zoo **visit**.

- A) merely
- B) adorable
- C) rank
- D) visit

E) All are correct

Question 29: In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelled in the sentence. Find out the word, which is wrongly spelled. If all the words are correctly spelled, mark (e) as your answer.

Blood transfusions are used for **various** medical **conditions** to **replace** lost **componants** of the blood.

A) various

B) conditions

C) replace

D) componants

E) All are correct

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Question 30: In the question below, a sentence is given with four words highlighted in bold. One of these four words may either be wrongly spelled in the sentence. Find out the word, which is wrongly spelled. If all the words are correctly spelled, mark (e) as your answer.

Austria was **keen** to **recover territory**, so it **invaded** France's client states in Eastern Europe.

A) keen

B) recover

C) territory

D) invaded

E) All are correct

ANSWER KEYS and SOLUTIONS:

1) - C)	2) - B)	3) - A)	4) - C)	5) - C)	6) - B)
7) - B)	8) - D)	9) - D)	10) - D)	11) - E)	12) - B)
13) - A)	14) - D)	15) - A)	16) - D)	17) - A)	18) - E)
19) - D)	20) - B)	21) - C)	22) - D)	23) - E)	24) - A)
25) - D)	26) - D)	27) - C)	28) - B)	29) - D)	30) - E)

Solution 1: C)

(c) is the correct answer. Refer to the lines- *"The term 'Biofuel' refers to a liquid or gaseous fuels for the transport sector that are predominantly produced from biomass."* It implies that biofuel is a liquid or gaseous fuel which is produced from biomass. Thus, (c) is true. (a) is untrue as biofuel is not a petroleum fuel. (b) is untrue as it is out of context, (d) is untrue as it is not generated from industrial waste. (d) is untrue as biofuel is not a mixture of petrol and diesel.

Solution 2: B)

(b) is the correct answer. Refer to the lines- *"The biomass resource base is composed of a wide variety of forestry and agricultural resources, industry residues and municipal solid and urban wood residues."* It implies that biomass resource base is composed of the following: forestry and agricultural resources, industry residues and urban woods. Thus, 2, 3 and 4 are true. 1 is untrue as only solid municipal residues contribute to the biomass resource base.

Solution 3: A)

(a) is the correct answer. Refer to the lines- *"..algae production has great promise because algae generate higher energy yields and require much less space to grow than conventional feedstocks. Also, algae would not compete with food crops for land and could be grown with minimal inputs using a variety of methods."* It implies that algae production has great promise because it generates higher yields, requires much less space to grow than conventional feedstock and also does not compete with other food crops for land. This makes 1 true and 2 and 3 false.

Solution 4: C)

(c) is the correct answer. As per the passage, fuels that can be produced from biomass resources are liquid fuels such as ethanol, methanol, biodiesel, Fischer-Tropsch diesel, and gaseous fuels such as hydrogen and methane. Thus, diesel cannot be produced from biomass. This makes (1) true.

Solution 5: C)

(c) is the correct answer. As per the passage, the first-generation liquid biofuels are made from sugar, starch, vegetable oils or animal fats using conventional technology. The second-generation technologies use a wider range of biomass resources – agriculture, forestry and waste materials. Third-generation biofuels may include the production of bio-based hydrogen for use in fuel cell vehicles. This makes 1 and 2 false and 3 true.

Solution 6: B)

(b) is the correct answer. Refer to the lines- *A variety of regionally significant crops such as cotton, sugarcane, rice and orchards can also be a source of crop residue.* It implies that wheat cannot be used as crop residue. Thus, 1 and 2 are correct.

Solution 7: B)

(b) is the correct answer. PRODUCED means to manufacture something. PROCESSED is the closest in the meaning of it. Surrounded- Encircled, Accessed- Acquired, Disturbed- Interrupted, Infused- Pervade.

Solution 8: D)

(d) is the correct answer. SIGNIFICANT means 'important'. Unimportant is the antonym of it.

Intent- Aim, Event- Occurrence, Adamant- Inflexible, Crucial- Vital

Solution 9: D)

In (d), replace the adverb SERIOUSLY with the adjective SERIOUS, as we need an adjective to modify the noun ISSUE. Thus, (d) is the right answer.

Solution 10: D)

In (d), replace the adverb THERE with the possessive pronoun THEIR, as we need the possessive pronoun here since the sentence talks about the limits of the rivers and freshwater sources. Thus, D is the right answer.

Solution 11: E)

The sentence is grammatically and meaningfully correct, and contains no error. Thus, (e) is the right answer.

Solution 12: B)

In (b), replace MADE with MAKE as the infinitive construction TO + VERB will always take the base form of the verb. Thus, (b) is the right answer.

Solution 13: A)

In (a), replace WONDERED with WONDER as the modal verb MIGHT will take the base form of the main verb that follows it. Thus, (a) is the right answer.

Solution 14: D)

(d) is the right answer. We need the past participle form of the verb as the present perfect tense construction HAS + VERB always takes the past participle form of the verb. The sentence seeks to convey that the Supreme Court has put off the trial in order to allow both parties to prepare. POSTPONED fits contextually. It means to schedule an event for a later time than initially planned.

TESTED- take measures to check the quality, performance of something

CALCULATED- to estimate the amount of something

DETERMINED- to ascertain or establish exactly by research or calculation.

Solution 15: A)

(a) is the right answer. We need a noun to be modified by the adjective NATIONWIDE. The sentence seeks to convey that the Prime Minister gave a speech to the people of his country after its capital was attacked by terrorists. ADDRESS(a formal speech delivered to an audience) fits contextually.

FAILURE- lack of success.

TOUR- a journey for pleasure in which several different places are visited

CAMPAIGN- an organized course of action to achieve a goal

Solution 16: D)

(d) is the right answer. We need an adjective to modify the noun phrase TOURIST DESTINATION. The sentence seeks to convey that Brussels is a beautiful city. We need an adjective that carries a negative meaning to fit in the blank as the sentence states that Brussels cannot be described by that word. MUNDANE means dull; boring.

AGILE- able to move quickly and easily

ESTEEM- respect and admiration

RESPECTABLE- regarded by society to be good, proper, or correct

Solution 17: A)

We need a noun here to form the object of the verb HAD. The sentence tells us how he had issues refusing the invitations and visitors, which left less time for work and his students.

DIFFICULTY will fit here. Thus, (a) is the right answer.

TROUBLED is a verb. Shortcoming - weakness; disadvantage. Complaint - grievance. Ailment - disease.

Solution 18: E)

(e) is the correct answer. The correct sequence is ABCD. A and B together introduces the subject -EXPONENTIAL RISE. C follows B by further adding what witnessed the exponential rise: Diet and

lifestyle related diseases. D concludes it by stating that the problem is related to a particular country.

Solution 19: D)

(d) is the correct answer. The correct sequence is - ADCB. A begins the sentence by introducing the subject- PREDICTION OF WEATHER EXPERTS. D follows A as it defines the region- the Himalayan region. C follows D as it states the prediction - more snow in the region. B concludes by stating the prediction is for coming days.

Solution 20: B)

(b) is the correct answer. The correct sequence is - ADBC. A begins the sentence by introducing the subject- THE STATE. D follows A as it talks about the objective of the state- enhance the dining experience. B and C form a pair as they talk about how the state will enhance its dining experience by displaying hygiene ratings on the restaurant's doors.

Solution 21: C)

(c) is the correct answer. The correct sequence is-CABD. C comes first as it introduces the subject- THE EDUCATION OUTREACH. A further adds to C by stating that education is unable to recognise certain things. B and D form a pair as they talk about the things that education fails to recognise- qualification of teachers and their understanding of child psychology.

Solution 22: D)

To BOW means to bend the head or the upper part of the body as a sign of respect. 2 uses the word to say that we must all bow before the queen. A BOW is a weapon used for shooting arrows. 3 uses the word to convey that the hunter carried a bow and seven arrows. Thus, (d) is the right answer.

1 is incorrect as it confuses BOW with BOUGH (branch).

Solution 23: E)

MINE is the possessive form of the pronoun ME. 1 uses the word to convey that the blue bike does not belong to the speaker. To MINE means to excavate. 2 uses the word to convey that the government has decided to mine the southern part of the plateau. A MINE can also be used as a noun to refer to a pit where excavation happens. 3 uses the word in to convey that he works at a site where gold is dug out. Thus, (e) is the right answer.

Solution 24: A)

BOOT refers to the trunk of a car. 2 uses the word to say that he found the lost keys in the trunk of his car. Thus, (a) is the right answer.

In 1, we need to replace the singular BOOT with the plural BOOTS as the word PAIR refers to two boots. In 3, we need to replace the base form verb BOOT (to fire or dismiss) with its past form BOOTED as the sentence talks about an event that happened yesterday.

Solution 25: D)

A BAT is an implement used to hit balls in games. 2 uses the word to convey that the sportsman happily signed the bat for a young fan. To BAT AN EYELID means to show an emotional reaction. 3 uses the word to convey that she didn't show any reaction at being told that she had exhausted all her savings. Thus, (d) is the right answer.

In 1, we need to replace the singular BAT with the plural BATS as the word FLOCK suggests that there were many bats.

Solution 26: D)

The sentence tells us it is obvious (evident) that he can't make any promises (vows) but the author is confident (certain) that he will look at the statements carefully. D is incorrectly spelled. The correct spelling of the word is ARGUMENTS. Thus, (d) is the right answer.

Solution 27: C)

The sentence tells us the air was stale (not fresh) and the dusty atmosphere (air) was enough to make all of them uneasy to breathe freely (openly). C is incorrectly spelled. The correct spelling of the word is HESITANT. Thus, (c) is the right answer.

Solution 28: B)

The sentence tells us how to most people, giraffes are merely (simply) appealing animals that rank (are at the top of) near the top of a zoo visit (tour). B is incorrectly spelled. The correct spelling of the word is ADORABLE. Thus, (b) is the right answer.

Solution 29: D)

The sentence tells us how blood transfusions are used for various (many) medical conditions (illnesses) to replace (supplant) lost parts of the blood. D is incorrectly spelled. The correct spelling of the word is COMPONENTS. Thus, (d) is the right answer.

Solution 30: E)

The sentence tells us how Austria was keen (eager) to recover (conquer) territory (regions), so it invaded (entered without permission) France's client states. All the word are correctly spelled. Thus, (e) is the right answer.

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RBI Assistant Previous Year Paper – Reasoning Section**Directions:** Answer the questions based on the information given below.

Seven persons A, B, C, D, E, F and G have exam on different days of a week from Monday to Sunday. Each of them likes different colours among Black, Blue, Green, Pink, Red, Yellow and White.

D has exam before G's exam. G does not have exam on Wednesday. C has exam just after F, who likes Yellow colour. A has exam two days before the one, who likes White colour. One person has exam between A's and B's exam. E likes Black colour and has exam on Sunday. B likes Red colour. Neither D nor A likes Pink colour.

Question 1: Who has exam on Monday?

- A) D
- B) B
- C) F
- D) E
- E) A

Question 2: Who among the following likes Green colour?

- A) D
- B) A
- C) F
- D) E
- E) Cannot be determined

Question 3: How many persons have exams after F's exam?

- A) Two
- B) One

- C) Four
- D) Three
- E) Five

Question 4: C likes _____ colour.

- A) Yellow
- B) Red
- C) White
- D) Pink
- E) Blue

Question 5: How many persons have exam between D's and G's exam?

- A) Three
- B) Four
- C) Two
- D) One
- E) Five

Directions: Answer the questions based on the information given below.

D > E S @ B # % Q A ^ & = P ? R U < T + F !

Question 6: How many such symbols are there which are immediately followed and immediately preceded by a consonant in the given arrangement?

- A) Four
- B) Three
- C) Two
- D) Five
- E) None of the above

Question 7: If all the consonants are dropped from the arrangement then which of the following, will be 2nd element to the right of the 6th element from the left end of the given arrangement?

- A) A
- B) ^
- C) =
- D) &
- E) None of the above

Question 8: In the given arrangement, how many such consonants are there which are immediately followed by vowel?

- A) Three
- B) One
- C) Zero
- D) Two
- E) None of the above

Question 9: In the given arrangement, how many such letters are there which are immediately followed by a symbol and immediately preceded by a letter?

- A) Four
- B) One
- C) Three
- D) Two
- E) None of the above

Question 10: How many symbols are there between 'B' and 'T' in the given arrangement?

- A) Six
- B) Five
- C) Eight
- D) Four

E) None of the above

Directions: Answer the questions based on the information given below:

Ten persons namely, A, B, C, D, E, F, G, H, I and J live on 10 different flats of a 5 storey building, where the bottommost floor is 1 and the floor above is 2 and so on. There are 2 types of flats on each floor, flat P and flat Q such that flat P is in the west of flat Q. Flat P of floor 1 is immediately below of flat P of floor 2, which is immediately below of flat P of floor 3 and so on, similarly for flat Q.

B and F live in the same type of flat. Two floors are there between the floors of B and F. F lives exactly in the west of G. B lives on the even numbered floor. I's floor is immediately above G's floor. I and E live in the same type of flat. There is one floor between the floors of I and E. D's floor is just below H's floor. J lives above A. C doesn't live in flat Q. H and J don't live in same type of flat.

Question 11: How many persons live below A (considering both types of flats)?

- A) 3
- B) 2
- C) 6
- D) Cannot be determined
- E) 4

Question 12: ____ lives just above C.

- A) I
- B) E
- C) No-one
- D) D
- E) J

Question 13: ____ lives in flat P of floor 2.

- A) B
- B) D
- C) H
- D) F

E) None of the above

Question 14: Who among the following lives to the west of J (on the same floor)?

A) C

B) B

C) D

D) Cannot be determined

E) None of the above

Question 15: ____ lives on the bottommost floor.

A) H, A

B) C, E

C) D, I

D) F, G

E) None of the above

Directions: Answer the questions based on the information given below.

There are seven members A, K, R, S, T, U and V in a family, which consists of three generations. There is only one married couple in the family. U is the only daughter of R, who is the daughter of K.

K is the sister-in-law of V, who is not married. S is the daughter of A, who has one brother. R has two children.

Question 16: How is T related to S?

A) Son

B) Niece

C) Nephew

D) Brother

E) None of the above

Question 17: How is R related to V?

A) Sister

- B) Daughter
- C) Can't be determined
- D) Niece
- E) None of the above

Directions: Answer the questions based on the information given below.

Eight persons are sitting at different places such that D is 6m north of A, who is 8m west of C. E is 12m east of B, who is 6m south of G. H is 4m south of C. F is 10m north of E. F is exactly between A and C.

Question 18: What is the shortest distance between G and H?

- A) 15m
- B) 16m
- C) 18m
- D) 20m
- E) None of the above

Question 19: What is the direction of C with respect to G?

- A) South west
- B) North east
- C) North west
- D) East
- E) None of the above

Question 20: If all the letters of the word 'DENLARUSSO' are replaced by 3rd succeeding letter in the alphabetical series then what is the difference between the number of consonants and vowels?

- A) More than seven
- B) Six
- C) Seven
- D) Five

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E) None of these

Directions: Answer the questions based on the information given below:

Nine persons A, B, C, D, E, F, G, H and I sit around a circular table. No two persons with names starting with consecutive alphabets are immediate neighbors of each other. Persons whose names start with vowel face towards the centre while others face outside.

C sits 3rd to the left of H. B sits 3rd to the right of G. A sits 2nd to the right of I. F doesn't sit adjacent to B. D doesn't sit 2nd to the right of E. Neither E nor D sits adjacent to G or H.

Question 21: Who sits to the immediate left of G?

- A) I
- B) A
- C) B
- D) F
- E) None of the above

Question 22: Who sits 4th to the right of A?

- A) B
- B) C
- C) E
- D) G
- E) None of the above

Question 23: What is the position of D with respect to F?

- A) 2nd to the left
- B) 3rd to the right
- C) 4th to the right
- D) 2nd to the right
- E) None of the above

Question 24: How many persons sit between G and A, if counted from the right of A?

- A) Two

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- B) Five
- C) Four
- D) Six
- E) None of the above

Question 25: __ sits to the immediate right of the person, who sits 4th to the left of H.

- A) G
- B) C
- C) D
- D) E
- E) None of the above

Directions: Answer the questions based on the information given below.

In a certain language,

- I. 'in time base thing demand' is coded as 'koe, poe, moe, goe, noe'
- II. 'beside right comment silence' is coded as 'yoe, coe, boe, xoe'
- III. 'demand head in right' is coded as 'uoe, poe, moe, xoe'
- IV. 'head demand comment base' is coded as 'moe, yoe, uoe, noe'

Question 26: What is the code of "thing"?

- A) boe
- B) coe
- C) poe
- D) yoe
- E) Cannot be determined

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Question 27: Which of the following words is coded as 'xoe'?

- A) in
- B) time
- C) demand
- D) right
- E) silence

Question 28: What is the code of "base head"?

- A) moe, uoe
- B) noe, uoe
- C) goe, koe
- D) coe, boe
- E) None of the above

Question 29: What is the code of "in"?

- A) poe
- B) noe
- C) moe
- D) yoe
- E) None of the above

Question 30: How many such numerals are there in the number '4573249145' which will remain at the same position when arranged in ascending order from right to left?

- A) None
- B) Three
- C) One
- D) Two
- E) Four

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Question 31: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

Only port are coast

Some port are boat

All boat are drain

Conclusions:

I. All coast are boat is a possibility

II. Some drain are coast

A) Only conclusion I follows

B) Both the conclusions I and II follow

C) Neither conclusion I nor II follow

D) Only conclusion II follows

E) Either conclusion I or II follows

Question 32: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

Some father is uncle

Every uncle is sister

Only a few sister is brother

Conclusions:

I. A few uncle can be brother

II. All father is sister

- A) Both conclusion I and conclusion II follow
- B) Only conclusion I follows
- C) Only conclusion II follows
- D) Neither conclusion I nor conclusion II follows
- E) None of the above

Question 33: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $T < N = W$; $U < T \leq H$; $K < W \leq A$

Conclusions:

I. $U < A$

II. $H > K$

III. $N > H$

- A) Only conclusion II is true.
- B) Only conclusions II and III are true.
- C) Only conclusion I is true.
- D) Only conclusions I and II are true.
- E) All conclusions I, II and III are false.

Question 34: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $L > K \geq D$; $C < K$; $S < M \geq L$

Conclusions:

I. $L > C$

II. $K < M$

III. $S < C$

- A) Only conclusion I is true
- B) Only conclusions I and II are true
- C) Only conclusion III is true
- D) All conclusions I, II and III are true
- E) Only conclusions II and III are true

Question 35: In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $V \geq R > D$; $K > C \geq Z$; $D < C$

Conclusions:

I. $V > C$

II. $Z < R$

III. $K > D$

- A) All conclusions I, II and III are true
- B) Only conclusions II and III are true
- C) Only conclusions I and II are true
- D) Only conclusion I is true
- E) Only conclusion III is true

निर्देश: दिए गए जानकारी के आधार पर सवालों के उत्तर दें।

सात व्यक्ति A, B, C, D, E, F और G की परीक्षा एक सप्ताह में Monday से Sunday तक भिन्न भिन्न दिन को है। इनमें से प्रत्येक को अलग-अलग रंग पसंद है - Black, Blue, Green, Pink, Red, Yellow और White।

D की परीक्षा G की परीक्षा से पहले है। G की परीक्षा Wednesday को नहीं है। C की परीक्षा F के तत्काल बाद है और F को Yellow रंग पसंद है। A की परीक्षा उस व्यक्ति से दो दिन पहले है जिसे White रंग पसंद है। एक व्यक्ति की परीक्षा A और B की परीक्षा के बीच है। E को Black पसंद है और उसी परीक्षा Sunday को है। B को Red पसंद है। ना ही D ना ही A को Pink पसंद है।

प्रश्न 1: इस व्यक्ति की परीक्षा Monday को है?

- A) D

B) B

C) F

D) E

E) A

प्रश्न 2: निम्नलिखित में से किसे Green रंग पसंद है?

A) D

B) A

C) F

D) E

E) निर्धारित नहीं किया जा सकता

प्रश्न 3: F की परीक्षा के बाद कितने व्यक्तियों की परीक्षा है?

A) दो

B) एक

C) चार

D) तीन

E) पांच

प्रश्न 4: C को _____ रंग पसंद है।

A) Yellow

B) Red

C) White

D) Pink

E) Blue

प्रश्न 5: D और G की परीक्षा के बीच कितने व्यक्तियों की परीक्षा है?

A) तीन

B) चार

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- C) दो
D) एक
E) पांच

निर्देश: दिए गए जानकारी के आधार पर सवालों के उत्तर दें।

$D > E S @ B \# \% Q A ^ \& = P ? R U < T + F !$

प्रश्न 6: दिए गए व्यवस्था में ऐसे कितने प्रतिक है जिनके तत्काल बाद और तत्काल पहले एक consonant है?

- A) चार
B) तीन
C) दो
D) पांच
E) इनमे से कोई नहीं

प्रश्न 7: यदि व्यवस्था से सभी consonant को हटा दिया जाता है तो दिए गए व्यवस्था के बाएं छोर से छोटे तत्व के दाएँ से दूसरा तत्व कौन सा है?

- A) A
B) ^
C) =
D) &
E) इनमे से कोई नहीं

प्रश्न 8: दिए गए व्यवस्था में, ऐसे कितने consonant है जिनके तत्काल बाद एक vowel है?

- A) तीन
B) एक
C) शून्य
D) दो
E) इनमे से कोई नहीं

प्रश्न 9: दिए गए व्यवस्था में, ऐसे कितने अक्षर है जिनके तत्काल बाद एक प्रतिक और तत्काल पहले एक अक्षर है?

- A) चार

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- B) एक
- C) तीन
- D) दो
- E) इनमे से कोई नहीं

प्रश्न 10: दिए गए व्यवस्था में 'B' और 'T' के बीच कितने प्रतिक है?

- A) छह
- B) पांच
- C) आठ
- D) चार
- E) इनमे से कोई नहीं

निर्देश: दिए गए जानकारी के आधार पर सवालों के उत्तर दें।

दस व्यक्ति A, B, C, D, E, F, G, H, I और J एक 5-तलीय ईमारत के 10 विभिन्न flats में रहते हैं जहाँ सबसे निचला तल को 1, इसके ऊपर के तल को 2 और इसी तरह अन्य तलों को भी अंकित किया गया है। प्रत्येक तल पर 2 प्रकार के flats है, flat P और flat Q जहाँ flat P flat Q के पश्चिम में है। तल 1 का flat P तल 2 के flat P से तत्काल नीचे है और तल 2 का flat P तल 3 के flat P से तत्काल नीचे है और इसी तरह, समान रूप से यह flat Q के लिए भी लागू होता है।

B और F समान प्रकार के flat में रहते हैं। B और F के तल के बीच दो तल है। F G के ठीक पश्चिम में रहता है। B एक सम संख्या से अंकित तल पर रहता है। I का तल G के तल से तत्काल ऊपर है। I और E समान प्रकार के flat में रहते हैं। I और E के तल के बीच एक तल है। D का तल H के तल से तत्काल नीचे है। J A के ऊपर रहता है। C flat Q में नहीं रहता है। H और J समान प्रकार के flat में नहीं रहते हैं।

प्रश्न 11: A के नीचे कितने व्यक्ति रहते हैं (दोनों प्रकार के flats का ध्यान रखते हुए)?

- A) 3
- B) 2
- C) 6
- D) निर्धारित नहीं किया जा सकता
- E) 4

प्रश्न 12: _____ C के तत्काल ऊपर रहता है।

- A) I
- B) E

C) कोई भी नहीं

D) D

E) J

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प्रश्न 13: _____ तल 2 के flat P में रहता है।

A) B

B) D

C) H

D) F

E) इनमें से कोई नहीं

प्रश्न 14: निम्नलिखित में से कौन J के पश्चिम में रहता है (समान तल में)?

A) C

B) B

C) D

D) निर्धारित नहीं किया जा सकता

E) इनमें से कोई नहीं

प्रश्न 15: _____ सबसे निचले तल पर रहता है।

A) H, A

B) C, E

C) D, I

D) F, G

E) इनमें से कोई नहीं

निर्देश: दिए गए जानकारी के आधार पर सवालों के उत्तर दें।

तीन पीढ़ी के एक परिवार में सात सदस्य हैं - A, K, R, S, T, U और V। परिवार में केवल एक विवाहित युगल है। U R की इकलौती पुत्री है और R K की पुत्री है।

K V की साली/ननद/भाभी है और V विवाहित नहीं है। S A की पुत्री है और A का एक भाई है। R के दो बच्चे हैं।

प्रश्न 16: T S से कैसे सम्बंधित है?

- A) पुत्र
- B) भतीजी/भांजी
- C) भतीजा/भांजा
- D) भाई
- E) इनमें से कोई नहीं

प्रश्न 17: R V से कैसे सम्बंधित है?

- A) बहन
- B) पुत्री
- C) निर्धारित नहीं किया जा सकता
- D) भतीजी/भांजी
- E) इनमें से कोई नहीं

निर्देश: दिए गए जानकारी के आधार पर सवालों के उत्तर दें।

आठ व्यक्ति भिन्न भिन्न स्थान पर इस तरह बैठे हैं कि D A के 6m उत्तर में बैठा है और A C के 8m पश्चिम में बैठा है। E B के 12m पूर्व में बैठा है और B G के 6m दक्षिण में बैठा है। H C के 4m दक्षिण में बैठा है। F E के 10 m उत्तर में है। F A और C के ठीक मध्य में बैठा है।

प्रश्न 18: G और H के बीच की न्यूनतम दूरी कितनी है?

- A) 15m
- B) 16m
- C) 18m
- D) 20m
- E) इनमें से कोई नहीं

प्रश्न 19: G के सन्दर्भ में C किस दिशा में है?

- A) दक्षिण पश्चिम

- B) उत्तर पूर्व
- C) उत्तर पश्चिम
- D) पूर्व
- E) इनमे से कोई नहीं

प्रश्न 20: यदि शब्द 'DENLARUSSO' के सभी अक्षरों को वर्णमाला श्रृंखला में तीसरे अगले अक्षर से प्रतिस्थापित किया जाता है तो consonants और vowels की संख्या के बीच का अंतर कितना है?

- A) सात से अधिक
- B) छह
- C) सात
- D) पांच
- E) इनमे से कोई नहीं

निर्देश: दिए गए जानकारी के आधार पर सवालों के उत्तर दें।

नौ व्यक्ति A, B, C, D, E, F, G, H और I एक वृत्ताकार मेज़ पर बैठे हैं। वैसे दो व्यक्ति एक दुसरे के तत्काल पड़ोसी नहीं है जिनके नाम लगातार अक्षरों से शुरू होते हैं। वह व्यक्ति केंद्र का सामना करते हैं जिनके नाम vowels से शुरू होते हैं जबकि शेष व्यक्ति केंद्र से बाहर का सामना करते हैं।

C H के बाएं से तीसरे स्थान पर बैठा है। B G के दाएँ से तीसरे स्थान पर बैठा है। A I के दाएँ से दुसरे स्थान पर बैठा है। F B के बगल में नहीं बैठा है। D E के दाएँ से दुसरे स्थान पर नहीं बैठा है। ना ही E ना ही D G या H के बगल में बैठे हैं।

प्रश्न 21: G के तत्काल बाएं ओर कौन बैठा है?

- A) I
- B) A
- C) B
- D) F
- E) इनमे से कोई नहीं

प्रश्न 22: A के दाएँ से चौथे स्थान पर कौन बैठा है?

- A) B
- B) C
- C) E

D) G

E) इनमें से कोई नहीं

प्रश्न 23: F के सन्दर्भ में D का क्या स्थान है?

A) बाएं से दूसरा

B) दाएँ से तीसरा

C) दाएँ से चौथा

D) दाएँ से दूसरा

E) इनमें से कोई नहीं

प्रश्न 24: A के दाएँ ओर से गणना करने पर, G और A के बीच कितने व्यक्ति बैठे हैं?

A) दो

B) पांच

C) चार

D) छह

E) इनमें से कोई नहीं

प्रश्न 25: _____ उस व्यक्ति के तत्काल दाएँ ओर बैठा है, जो H के बाएं से चौथे स्थान पर बैठा है।

A) G

B) C

C) D

D) E

E) इनमें से कोई नहीं

निर्देश: नीचे दी गई जानकारी के आधार पर प्रश्नों के उत्तर दें।

एक निश्चित भाषा में,

I. 'in time base thing demand' का कोड है 'koe, poe, moe, goe, noe'

II. 'beside right comment silence' का कोड है 'yoe, coe, boe, xoe'

III. 'demand head in right' का कोड है 'uoe, poe, moe, xoe'

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IV. 'head demand comment base' का कोड है 'moe, yoe, uoe, noe'

प्रश्न 26: "thing" का कोड क्या है?

A) boe

B) coe

C) poe

D) yoe

E) निर्धारित नहीं किया जा सकता

प्रश्न 27: निम्नलिखित में से कौन से शब्द को 'xoe' के रूप में कोडित किया गया है?

A) in

B) time

C) demand

D) right

E) silence

प्रश्न 28: "base head" का कोड क्या है?

A) moe, uoe

B) noe, uoe

C) goe, koe

D) coe, boe

E) इनमें से कोई नहीं

प्रश्न 29: "in" का कोड क्या है?

A) poe

B) noe

C) moe

D) yoe

E) इनमें से कोई नहीं

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प्रश्न 30: यदि संख्या '4573249145' में सभी अंको को दाएँ से बाएँ आरोही क्रम में व्यवस्थित किया जाता है तो कितने अंकों के स्थान में कोई बदलाव नहीं आएगा?

A) एक भी नहीं

B) तीन

C) एक

D) दो

E) चार

प्रश्न 31: निम्नलिखित प्रश्न में तीन कथन के बाद दो निष्कर्ष I और II दिए गए हैं। आपको दिए गए कथन को सत्य मानना है भले ही वह ज्ञात तथ्यों से भिन्न भी हो और फिर यह तय करना है कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष इन कथनों का तर्कसंगत अनुसरण करता है।

कथन:

केवल port coast है

कुछ port boat है

सभी boat drain है

निष्कर्ष:

I. सभी coast के boat होने की संभावना है

II. कुछ drain coast है

A) केवल निष्कर्ष I अनुसरण करता है।

B) दोनों निष्कर्ष I और II अनुसरण करता है।

C) ना ही निष्कर्ष I ना ही II अनुसरण करता है।

D) केवल निष्कर्ष II अनुसरण करता है।

E) या निष्कर्ष I या II अनुसरण करता है।

प्रश्न 32: निम्नलिखित प्रश्न में तीन कथन के बाद दो निष्कर्ष I और II दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है भले ही वह ज्ञात तथ्यों से भिन्न भी हो और फिर यह तय करना है कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष इन कथनों का तर्कसंगत अनुसरण करता है।

कथन:

कुछ father uncle है

प्रत्येक uncle sister है

केवल कुछ sister brother है

निष्कर्ष:

I. कुछ uncle brother हो सकते है

II. सभी father sister है

A) दोनों निष्कर्ष I और निष्कर्ष II अनुसरण करता है।

B) केवल निष्कर्ष I अनुसरण करता है।

C) केवल निष्कर्ष II अनुसरण करता है।

D) ना ही निष्कर्ष I ना ही निष्कर्ष II अनुसरण करता है।

E) इनमे से कोई नहीं

प्रश्न 33: निम्नलिखित प्रश्न में, दिए गए कथनों को सत्य मानकर, यह तय करना है कि दिए गए तीन निष्कर्षों में से कौन सा निष्कर्ष निश्चित रूप से सत्य है और उसी अनुसार अपना उत्तर दें।

कथन: $T < N = W$; $U < T \leq H$; $K < W \leq A$

निष्कर्ष:

I. $U < A$

II. $H > K$

III. $N > H$

A) केवल निष्कर्ष II सत्य है।

B) केवल निष्कर्ष II और III सत्य है।

C) केवल निष्कर्ष I सत्य है।

D) केवल निष्कर्ष I और II सत्य है।

E) सभी निष्कर्ष I, II और III गलत है।

प्रश्न 34: निम्नलिखित प्रश्न में, दिए गए कथन को सत्य मानकर, यह तय करना है कि दिए गए तीन निष्कर्षों में से कौन सा निष्कर्ष निश्चित रूप से सत्य है और उसी अनुसार अपना उत्तर दें।

कथन: $L > K \geq D$; $C < K$; $S < M \geq L$

निष्कर्ष:

I. $L > C$

II. $K < M$

III. $S < C$

A) केवल निष्कर्ष I सत्य है

B) केवल निष्कर्ष I और II सत्य है

C) केवल निष्कर्ष III सत्य है

D) सभी निष्कर्ष I, II और III सत्य है

E) केवल निष्कर्ष II और III सत्य है

प्रश्न 35: निम्नलिखित प्रश्न में, दिए गए कथन को सत्य मानकर, यह तय करना है कि दिए गए तीन निष्कर्षों में से कौन सा निष्कर्ष निश्चित रूप से सत्य है और उसी अनुसार अपना उत्तर दें।

कथन: $V \geq R > D$; $K > C \geq Z$; $D < C$

निष्कर्ष:

I. $V > C$

II. $Z < R$

III. $K > D$

A) सभी निष्कर्ष I, II और III सत्य है।

B) केवल निष्कर्ष II और III सत्य है

C) केवल निष्कर्ष I और II सत्य है

D) केवल निष्कर्ष I सत्य है

E) केवल निष्कर्ष III सत्य है

ANSWER KEYS and SOLUTIONS:

1) - B)	2) - E)	3) - D)	4) - C)	5) - A)	6) - B)
7) - D)	8) - D)	9) - C)	10) - E)	11) - E)	12) - C)
13) - B)	14) - A)	15) - D)	16) - C)	17) - D)	18) - B)
19) - B)	20) - B)	21) - A)	22) - C)	23) - D)	24) - B)

25) - B)	26) - E)	27) - D)	28) - B)	29) - A)	30) - C)
31) - C)	32) - B)	33) - C)	34) - B)	35) - E)	

Solution 1: B)

Starting point: Here, after using all the direct information we can use statements of A and B in order to make two cases:

Clues: A has exam two days before the one, who likes White colour. One person has exam between A's and B's exam. E likes Black colour and has exam on Sun day. B likes Red colour.

Inference: So, B must have exam on Tuesday or Monday.

Days	Case 1		Case 2	
Monday			B	Red
Tuesday	B	Red		
Wednesday			A	
Thursday	A			
Friday				White
Saturday		White		
Sunday	E	Black	E	Black

Clues: C has exam just after F, who likes Yellow colour. D has exam before G's exam. G does not have exam on Wednesday. Neither D nor A likes Pink colour.

Inference: So, case 1 must be rejected as G does not have exam on Wednesday. D and A like Green and Blue colour.

Days	Person	Colour
Monday	B	Red
Tuesday	D	Green/Blue
Wednesday	A	Blue/Green
Thursday	F	Yellow
Friday	C	White
Saturday	G	Pink
Sunday	E	Black

B has exam on Monday.

Hence, option b.

Solution 2: E)

Either D or A likes Green colour.

Hence, option e.

Solution 3: D)

Three persons have exams after F's exam.

Hence, option d.

Solution 4: C)

C likes White colour.

Hence, option c.

Solution 5: A)

Three persons have exam between D's and C's exam.

Hence, option a.

Solution 6: B)

Given series,

D > E S @ B # % Q A ^ & = P ? R U < T + F !

There are three such symbols which are immediately followed and immediately preceded by a consonant in the given arrangement.

Hence, option b.

Solution 7: D)

Given series,

D > E S @ B # % Q A ^ & = P ? R U < T + F !

If all the consonants are dropped from the arrangement, then the arrangement would be like

> E @ # % A ^ & = ? U < + !

So the 2nd element to the right of the 6th element from the left end of the given arrangement is &.

Hence, option d.

Solution 8: D)

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Given series,

D > E S @ B # % Q A ^ & = P ? R U < T + F !

There are two such consonants which are immediately followed by a vowel.

Hence, option d.

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Solution 9: C)

Given series,

D > E S @ B # % Q A ^ & = P ? R U < T + F !

There are three such letters which are immediately followed by a symbol and immediately preceded by a letter.

Hence, option c.

Solution 10: E)

Given series,

D > E S @ B # % Q A ^ & = P ? R U < T + F !

There are seven symbols between 'B' and 'T' in the given arrangement.

Hence, option e.

Solution 11: E)

Starting point: Start placing B, G and F, so B live in flat P of either floor 2 or floor 4.

Clues: I lives on a floor that is immediately above the floor of G. I and E live in the same type of flat. There is one floor between the floors of I and E.

Inference: I lives in either flat P or flat Q.

Case 1: When B lives on 2nd floor. G cannot be placed in this case, so this case is not possible.

Floors	Flat P	Flat Q
--------	--------	--------

5	F	G
4		
3		
2	B	
1		

Clues: D's floor is just below H's floor.

Inference:

Case 2: When B lives on 4th floor.

It means that E lives on 4th floor and since I and E live in the same type of flat, I lives in Flat-Q on 2nd floor. Thus D lives in flat-P on 2nd floor.

Floors	Flat P	Flat Q
5		
4	B	E
3		
2	D	I
1	F	G

Clues: J lives above A. C doesn't live in flat Q. H and J don't live in same type of flat.

Inference: So, J must live in flat Q which implies that H lives in flat P and thus C lives in flat P and A lives in Flat Q on 3rd floor.

The final arrangement is as follows:

Floors	Flat P	Flat Q
5	C	J
4	B	E
3	H	A
2	D	I
1	F	G

4 persons live below A.

Hence, option e.

Solution 12: C)

No-one lives above C.

Hence, option c.

Solution 13: B)

D lives in flat P of floor 2.

Hence, option b.

Solution 14: A)

C lives to the west of J.

Hence, option a.

Solution 15: D)

F and G live on the bottommost floor.

Hence, option d.

Solution 16: C)**Clues:**

U is the only daughter of R, who is the daughter of K.

R has two children.

K is the sister-in-law of V, who is not married.

S is the daughter of A, who has one brother.

Inference:

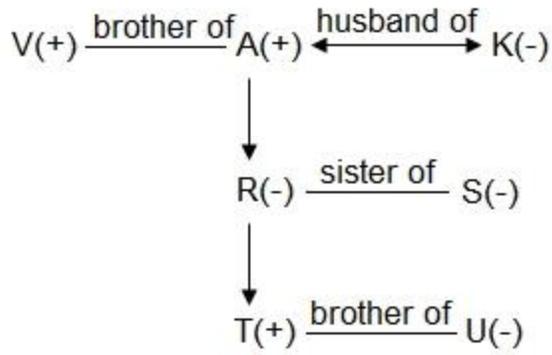
S is the sister of R.

V is the brother of A.

T is the only son of U.

The family tree:

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T is the nephew of S.

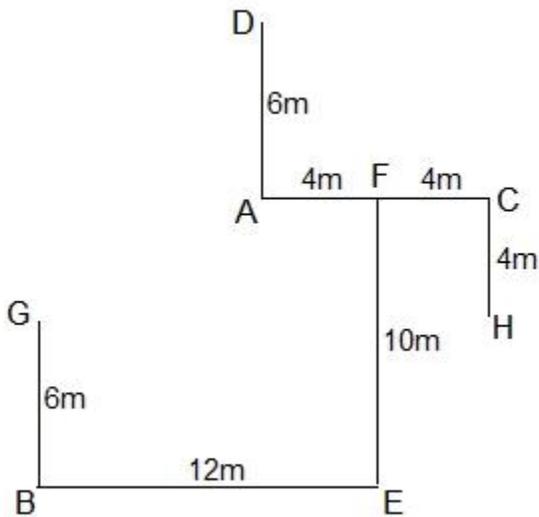
Hence, option c.

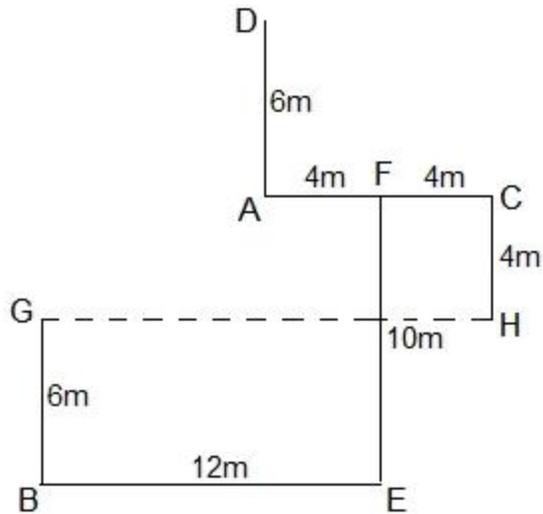
Solution 17: D)

R is the niece of V.

Hence, option d.

Solution 18: B)





The shortest distance between G and H is $(12 + 4) = 16\text{m}$

Hence, option b.

Solution 19: B)

C is to the north east of G.

Hence, option b.

Solution 20: B)

DENLARUSSO

If all the letters are replaced by 3rd succeeding letters, we get

GHQODUXVVR

Number of consonants is 8 and number of vowels is 2.

So, $8 - 2 = 6$

Hence, option b.

Solution 21: A)

Starting Point: First try to place C, H, B and G so as to get only two cases.

Clues:

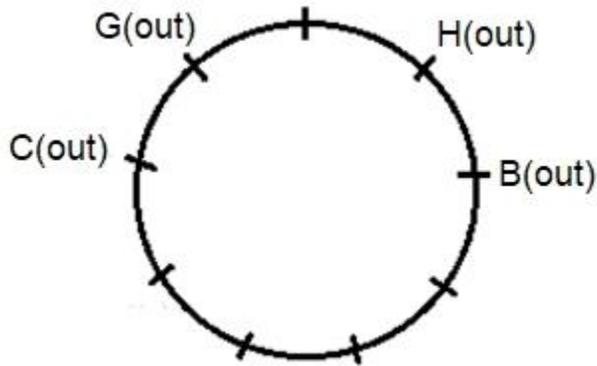
C sits 3rd to the left of H.

B sits 3rd to the right of G.

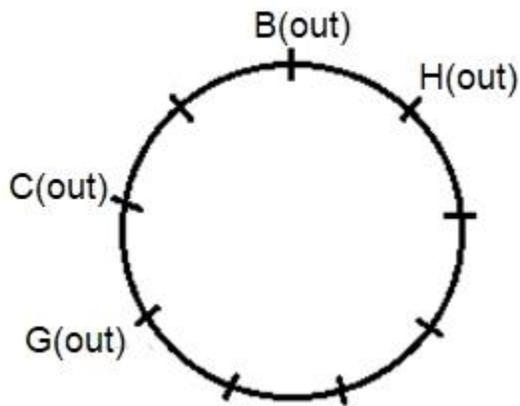
Inference:

B sits either immediate right of H or immediate left of H.

Case I: B sits immediate right of H:



Case II: B sits immediate left of H:



Clues:

A sits 2nd to the right of I.

F doesn't sit adjacent to B.

Neither E nor D sits adjacent to G or H, this is not possible in case I, so case I is rejected.

Inference:

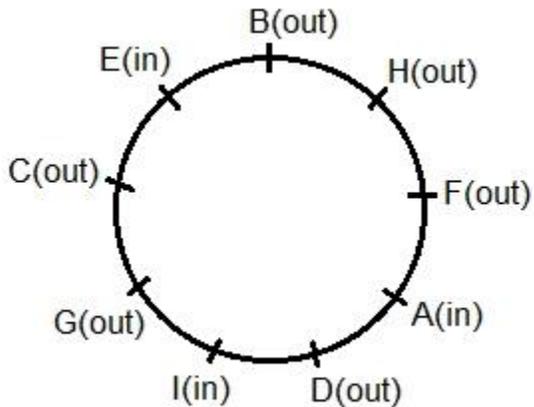
E sits immediate right of C.

I sits immediate left of G.

F sits immediate right of H.

A and D sits immediate left of each other.

The final seating arrangement is given below:



I sits to the immediate left of G.

Hence, option a.

Solution 22: C)

E sits 4th to the right of A.

Hence, option c.

Solution 23: D)

D sits 2nd to the right of F.

Hence, option d.

Solution 24: B)

Five persons sit between G and A, if counted from the right of A.

Hence, option b.

Solution 25: B)

C sits to the immediate right of G, who sits 4th to the left of H.

Hence, option b.

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Solution 26: E)

From statement I, III and IV, we conclude that “demand” is coded as “moe”.

From statement I and IV, we conclude that “base” is coded as “noe”.

From statement II and IV, we conclude that “comment” is coded as “yoe”.

From statement II and III, we conclude that “right” is coded as “xoe”.

From statement I and III, we conclude that “in” is coded as “poe”.

From statement III and IV, we conclude that “head” is coded as “uoe”.

The final table is shown below:

Word	in	time	base	Thing	demand	beside	right	comment	silence	head
Code	poe	koe/goe	noe	goe/koe	moe	boe/coe	xoe	yoe	coe/boe	uoe

Either “boe” or “coe” is coded as ‘thing’.

Hence, option e.

Solution 27: D)

“right” is coded as “xoe”

Hence, option d.

Solution 28: B)

“base head” is coded as “noe, uoe”

Hence, option b.

Solution 29: A)

“in” is coded as “poe”.

Hence, option a.

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Solution 30: C)

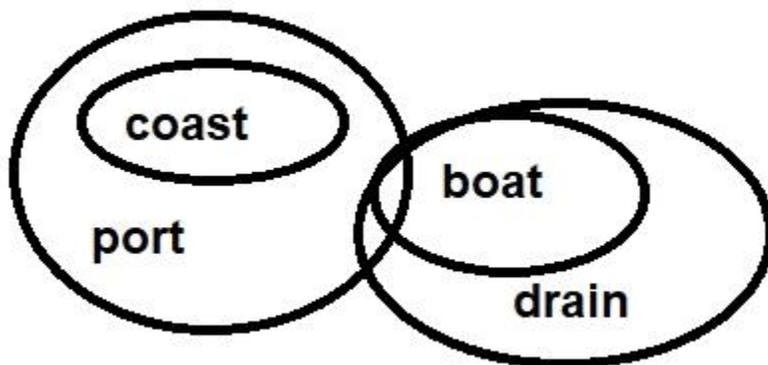
Given number '4573249145'

After rearrangement we get 9755444321 so, only one such numeral which remains at the same position i.e. 4.

Hence, option c.

Solution 31: C)

Following figures can be formed from the statements.

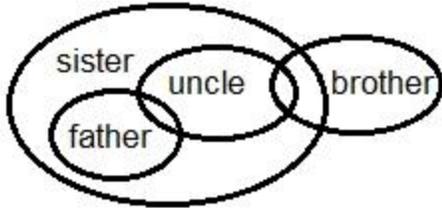
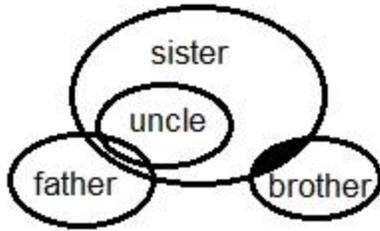


As, only port are coast means that nothing can be part of coast except port. So, none of the conclusion follows.

Hence, option c.

Solution 32: B)

Following figure can be formed:



From the figure, only conclusion I follows.

Hence, option b.

Solution 33: C)

Given statements: $T < N = W$; $U < T \leq H$; $K < W \leq A$

On combining, we get

$U < T < N = W \leq A$; $K < W = N > T \leq H$

Conclusions:

I. $U < A$: True (As $U < T < N = W \leq A$, so $U < A$)

II. $H > K$: False (As $K < W = N > T \leq H$, so relation between H and K can't be determined)

III. $N > H$: False (As $N > T \leq H$, so relation between N and H can't be determined)

Hence, option c.

Solution 34: B)

Given statements: $L > K \geq D$; $C < K$; $S < M \geq L$

On combining, we get

$S < M \geq L > K > C$; $D \leq K < L \leq M$

Conclusions:

I. $L > C$: True (As $L > K > C$, so $L > C$)

II. $K < M$: True (As $K < L \leq M$, so $K < M$)

III. $S < C$: False (As $S < M \geq L > K > C$, relation between S and C can't be determined)

Hence, option b.

Solution 35: E)

Given statements: $V \geq R > D$; $K > C \geq Z$; $D < C$

On combining, we get

$V \geq R > D < C \geq Z$; $K > C > D < R$

Conclusions:

I. $V > C$: False (As $V \geq R > D < C$, relation between V and C can't be determined)

II. $Z < R$: False (As $R > D < C \geq Z$, relation between Z and R can't be determined)

III. $K > D$: True (As $K > C > D$, so $K > D$)

Hence, option e.

RBI Assistant Previous Year Paper – Quant Section

Question 1: What will come in place of the question mark (?) in the following series?
81, 83, 87, 95, 111, ?

A) 139

B) 156

C) 143

D) 147

E) 136

Question 2: What will come in place of the question mark (?) in the following series?
24, 8, 15, ?, 12, 4

A) 5

- B) 7
- C) 4
- D) 9
- E) 11

Question 3: What will come in place of the question mark (?) in the following series?
111, 109, 115, ?, 211, -509

- A) 76
- B) 82
- C) 91
- D) 105
- E) None of these

Question 4: What will come in place of the question mark (?) in the following series?
25, 41, 73, ?, 185, 265

- A) 117
- B) 127
- C) 133
- D) 109
- E) 121

Question 5: What will come in place of the question mark (?) in the following series?
16, 16, ?, 96, 384, 1920

- A) 48
- B) 32
- C) 24
- D) 56
- E) 28

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Question 6: The difference between the downstream and upstream speeds of a boat is 12 km/hr. If the speed of the boat in still water is 14 km/hr more than that of the current, then find the downstream speed of the boat.

- A) 18 km/hr
- B) 32 km/hr
- C) 26 km/hr
- D) 28 km/hr
- E) None of these

Question 7: Ratio of present ages of Ranu and Rekha is 5:6, respectively. 5 years hence for now, ratio of age of Ranu and Rekha will be 6:7, respectively. Find the present age of Ranu.

- A) 15 years
- B) 20 years
- C) 25 years
- D) 30 years
- E) None of these

Question 8: Length of a rectangle is equal to the side of a square. If area of the square and rectangle is 484 m^2 and 330 m^2 , respectively then find the perimeter of the rectangle.

- A) 52 metres
- B) 68 metres
- C) 74 metres
- D) 92 metres
- E) None of these

Question 9: In a resort, 30% and 20% of the total number of guests ate pizza and burger, respectively. If 30% of the remaining number of guests which is equal to 810 ate cake, then find total number of guests in the resort.

- A) 5400
- B) 6400
- C) 4800

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- D) 7200
- E) None of these

Question 10: Jai Exp. started from Kota towards Delhi at 9 A.M. with a speed of 20 m/sec. Shakti Exp. started from Delhi towards Kota at 2 P.M. with a speed of 108 km/hr. If they met in between at 4 P.M., then find the distance between Kota and Delhi.

- A) 720 km
- B) 540 km
- C) 600 km
- D) 480 km
- E) 800 km

Question 11: Anita and Ajay started a business by investing Rs. 24000 and Rs. 30000, respectively. After 4 months, Vishal also joined them by investing Rs. 36000. If the annual profit received by them is Rs. 1820 then find the profit share of Ajay.

- A) Rs. 700
- B) Rs. 720
- C) Rs. 740
- D) Rs. 660
- E) Rs. 680

Question 12: 120 litres of mixture contains butter and oil in the ratio of 5:7, respectively. If 24 litres of the mixture is replaced by same quantity of butter, then find the ratio of butter and oil in the final mixture.

- A) 3:4
- B) 7:5
- C) 8:7
- D) 11:9
- E) 12:17

Question 13: A seller buys a product for Rs. 4400 and marked it 25% above the cost price and sold it after giving a discount of 30%. Find the loss percentage incurred to the seller.

- A) 10.5%

- B) 12.5%
- C) 14.5%
- D) 16.5%
- E) None of these

Question 14: 'A', 'B' and 'C' can do a piece of work in 10 days, 12 days and 15 days, respectively. If 'A' and 'B' together completed 60% of the work and remaining work will be completed by 'C' alone, then find the total time taken to complete the whole work.

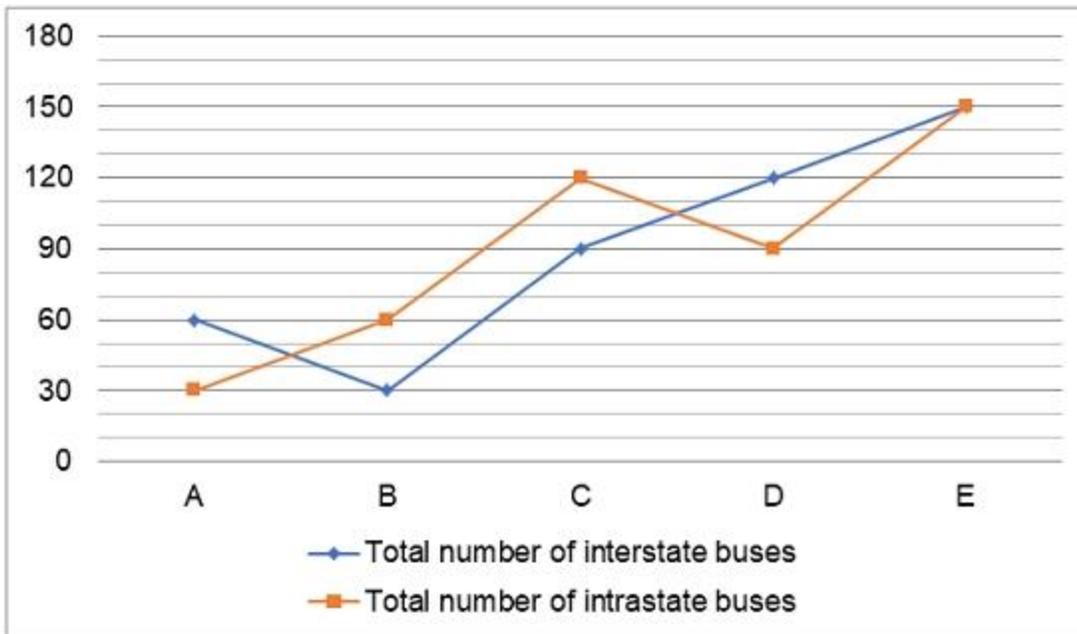
- A) $102/11$ days
- B) $80/13$ days
- C) $70/11$ days
- D) $70/13$ days
- E) None of these

Question 15: Rs. $(x + 250)$ when invested at 20% p.a. simple interest for 4 years gives an interest of Rs. $(0.8x + 200)$. Find the value of $(x + 450)$.

- A) 2100
- B) 1800
- C) 1200
- D) 1700
- E) Cannot be determined

Directions: Answer the questions based on the information given below.

The given line graph shows the number of interstate buses and intrastate buses, at five different bus stands.



Question 16: Find the ratio of the total number of interstate buses at bus stands 'A' and 'C', together to the number of intrastate buses at bus stand 'E'.

- A) 3:2
- B) 2:1
- C) 1:1
- D) 5:4
- E) 4:7

Question 17: Total number of buses (interstate + intrastate) at bus stand 'C' is how much percent more/less than the number of interstate buses at bus stand 'D'.

- A) 75%
- B) 60%
- C) 80%
- D) 45%
- E) None of these

Question 18: If $\frac{1}{3}$ rd of interstate buses and 20% of intrastate buses, at bus stand 'E' operates in night, then find the number of buses (interstate + intrastate) buses that operates in day.

- A) 220
- B) 180

- C) 250
- D) 120
- E) 300

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Question 19: Find the difference between number of intrastate buses at bus stands 'A' and 'B', together and total number of buses (interstate + intrastate) at bus stand 'D'.

- A) 100
- B) 120
- C) 130
- D) 80
- E) None of these

Question 20: The number of interstate buses at bus stand 'F' is 80 more than at bus stand 'D'. If the number of intrastate buses at bus stand 'F' is 25% more than the number of interstate buses in that bus stand, then find the total number of buses (interstate + intrastate) at bus stand 'F'.

- A) 540
- B) 320
- C) 360
- D) 450
- E) 480

Question 21: What will come in the place of question mark (?) in the given expression?

$$1728 + 270 \div 6 = ? \times 9$$

- A) 108
- B) 152
- C) 197
- D) 242

E) 274

Question 22: What will come in the place of question mark (?) in the given expression?

$$750\% \text{ of } 360 - ? \times 50 = 1050$$

A) 12

B) 33

C) 58

D) 76

E) 99

Question 23: What will come in the place of question mark (?) in the given expression?

$$2000 \div \sqrt{625} + (77/3) \times 12 = ?$$

A) 338

B) 348

C) 398

D) 388

E) 288

Question 24: What will come in the place of question mark (?) in the given expression?

$$36 \text{ of } 24 \div 12 + (25 \times 18) \div 45 = ?$$

A) 44

B) 82

C) 115

D) 146

E) 192

Question 25: What will come in the place of question mark (?) in the given expression?

$$320 + (24)^2 \div 16 \times 25 = ?$$

A) 700

B) 800

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- C) 900
- D) 1220
- E) 1100

Question 26: What will come in the place of question mark (?) in the given expression?

$$\sqrt{(484 \times 196)} \div 14 - 4 = ?^2 - 103$$

- A) 6
- B) 11
- C) 22
- D) 36
- E) 49

Question 27: What will come in the place of question mark (?) in the given expression?

$$[(3)^9 \div (3)^4 \times (3)^4] \div [(3)^8 \div (3)^4] = (3)^?$$

- A) 3
- B) 8
- C) 5
- D) 4
- E) 2

Question 28: What will come in the place of question mark (?) in the given expression?

$$252 \times 4 + 3660 \div 366 = ? + 16 \times 6$$

- A) 744
- B) 812
- C) 922
- D) 1002
- E) 1112

Question 29: What will come in the place of question mark (?) in the given expression?

$$(5/12) \times 480 + 150 = ?\% \text{ of } 875$$

- A) 30
- B) 35
- C) 20
- D) 40
- E) 25

Question 30: What will come in the place of question mark (?) in the given expression?
 $25\% \text{ of } 960 + 240 = ? \times 24$

- A) 36
- B) 32
- C) 30
- D) 24
- E) 20

Question 31: What will come in the place of question mark (?) in the given expression?
 $(220 + 180) \div 4 + (24 \times 2.5) = ?$

- A) 150
- B) 100
- C) 160
- D) 120
- E) 200

Question 32: What will come in the place of question mark (?) in the given expression?
 $(18 \times 5) + 12.5\% \text{ of } 480 = ? \times 3$

- A) 45
- B) 50
- C) 20
- D) 40

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E) 30

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Question 33: What will come in the place of question mark (?) in the given expression?

$$(15^2 + 125) \div 5 + 200 = ? \times 15$$

A) 24

B) 18

C) 16

D) 14

E) 22

Question 34: What will come in the place of question mark (?) in the given expression?

$$(? \times 24) - 88 = 25\% \text{ of } 800$$

A) 14

B) 12

C) 16

D) 18

E) 20

Question 35: The average of three numbers is 42.5, while the average of 1st two numbers is 38.75, then find the remaining third number.

A) 45.5

B) 47

C) 48

D) 50

E) 52.5

प्रश्न 1: निम्नलिखित श्रृंखला में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

81, 83, 87, 95, 111, ?

- A) 139
- B) 156
- C) 143
- D) 147
- E) 136

प्रश्न 2: निम्नलिखित श्रृंखला में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?
24, 8, 15, ?, 12, 4

- A) 5
- B) 7
- C) 4
- D) 9
- E) 11

प्रश्न 3: निम्नलिखित श्रृंखला में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?
111, 109, 115, ?, 211, -509

- A) 76
- B) 82
- C) 91
- D) 105
- E) इनमें से कोई नहीं

प्रश्न 4: निम्नलिखित श्रृंखला में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?
25, 41, 73, ?, 185, 265

- A) 117
- B) 127
- C) 133

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D) 109

E) 121

प्रश्न 5: निम्नलिखित श्रृंखला में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

16, 16, ?, 96, 384, 1920

A) 48

B) 32

C) 24

D) 56

E) 28

प्रश्न 6: एक नाव की धारा अनुप्रवाह और धारा विरुद्ध गति के बीच का अंतर 12 km/hr है। यदि शांत जल में नाव की गति धारा की गति से 14 km/hr अधिक है, तो नाव की धारा अनुप्रवाह गति ज्ञात कीजिए।

A) 18 km/hr

B) 32 km/hr

C) 26 km/hr

D) 28 km/hr

E) इनमें से कोई नहीं

प्रश्न 7: रानू और रेखा की वर्तमान आयु का अनुपात क्रमशः 5:6 है। अब से 5 वर्ष बाद रानू और रेखा की आयु का अनुपात क्रमशः 6:7 होगा। रानू की वर्तमान आयु ज्ञात कीजिए।

A) 15 years

B) 20 years

C) 25 years

D) 30 years

E) इनमें से कोई नहीं

प्रश्न 8: एक आयत की लंबाई एक वर्ग की भुजा के बराबर होती है। यदि वर्ग और आयत का क्षेत्रफल क्रमशः 484 m² और 330 m² है, तो आयत का परिमाण ज्ञात करें।

A) 52 metres

B) 68 metres

- C) 74 metres
D) 92 metres
E) इनमें से कोई नहीं

प्रश्न 9: एक रिजॉर्ट में, कुल मेहमानों की संख्या के क्रमशः 30% और 20% ने पिज्जा और बर्गर खाया। यदि शेष मेहमानों की संख्या का 30% जो 810 के बराबर है, केक खाया, तो रिजॉर्ट में मेहमानों की कुल संख्या ज्ञात कीजिए।

- A) 5400
B) 6400
C) 4800
D) 7200
E) इनमें से कोई नहीं

प्रश्न 10: Jai Exp. 20 m/sec की गति से 9 A.M. पर कोटा से दिल्ली के लिए रवाना हुई। Shakti Exp. 108 km/hr की गति से 2 P.M. पर दिल्ली से कोटा के लिए रवाना हुई। यदि वे बीच में 4 P.M. पर मिलते हैं, तो कोटा और दिल्ली के बीच की दूरी ज्ञात कीजिए।

- A) 720 km
B) 540 km
C) 600 km
D) 480 km
E) 800 km

प्रश्न 11: अनीता और अजय ने क्रमशः Rs. 24000 और Rs. 30000 का निवेश करके एक व्यवसाय शुरू किया। 4 महीने के बाद, विशाल भी Rs. 36000 का निवेश करके उनके साथ जुड़ गया। यदि उनके द्वारा प्राप्त वार्षिक लाभ Rs. 1820 है तो अजय का लाभ हिस्सा ज्ञात कीजिए।

- A) Rs. 700
B) Rs. 720
C) Rs. 740
D) Rs. 660
E) Rs. 680

प्रश्न 12: 120 litres मिश्रण में क्रमशः 5:7 के अनुपात में butter और oil है। यदि 24 litres मिश्रण को समान मात्रा में butter से प्रतिस्थापित किया जाता है, तो अंतिम मिश्रण में butter और oil का अनुपात ज्ञात कीजिए।

- A) 3:4
- B) 7:5
- C) 8:7
- D) 11:9
- E) 12:17

प्रश्न 13: एक विक्रेता एक उत्पाद को Rs. 4400 में खरीदता है और क्रय मूल्य से 25% अधिक अंकित किया और 30% की छूट देकर इसे बेच दिया। विक्रेता को हुई हानि प्रतिशत ज्ञात कीजिए।

- A) 10.5%
- B) 12.5%
- C) 14.5%
- D) 16.5%
- E) इनमें से कोई नहीं

प्रश्न 14: 'A', 'B' और 'C' एक काम को क्रमशः 10 दिन, 12 दिन और 15 दिन में पूरा कर सकते हैं। यदि 'A' और 'B' काम का 60% पूरा करते हैं और शेष काम अकेले 'C' द्वारा पूरा किया जाता है, तो पूरे काम को समाप्त होने में लगने वाला कुल समय ज्ञात कीजिए।

- A) 102/11 days
- B) 80/13 days
- C) 70/11 days
- D) 70/13 days
- E) इनमें से कोई नहीं

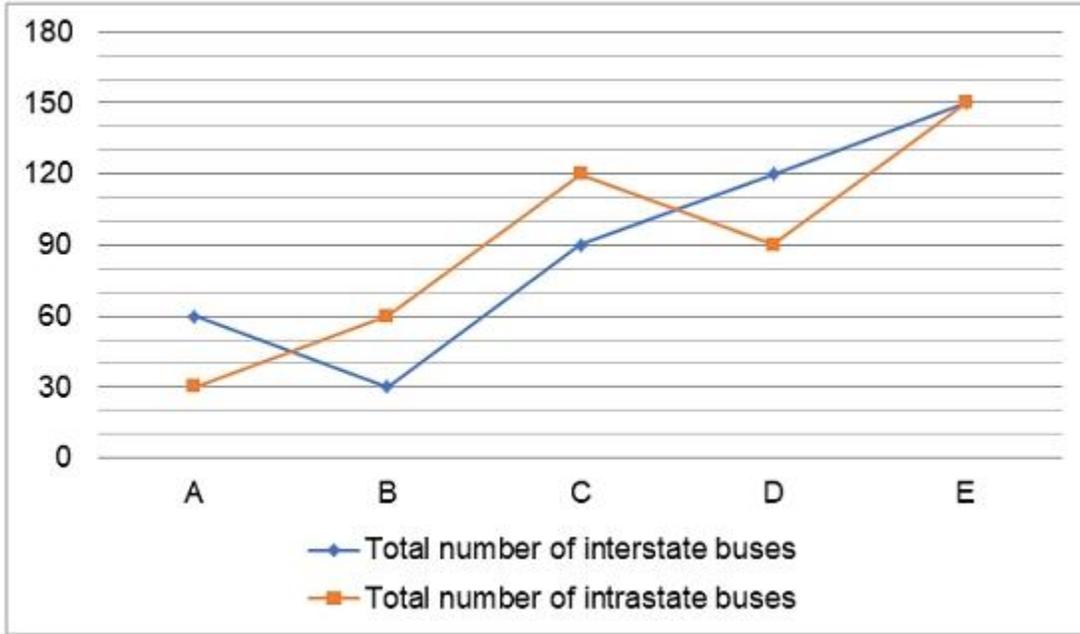
प्रश्न 15: Rs. $(x + 250)$ को जब 4 वर्ष के लिए 20% प्रति वर्ष साधारण ब्याज की दर से निवेश किया जाता है तो Rs. $(0.8x + 200)$ का ब्याज मिलता है। $(x + 450)$ का मान ज्ञात कीजिए।

- A) 2100
- B) 1800
- C) 1200
- D) 1700
- E) निर्धारित नहीं किया जा सकता

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निर्देश: नीचे दी गई जानकारी के आधार पर प्रश्नों के उत्तर दें।

दिए गए line graph पांच अलग-अलग bus stands पर interstate buses और intrastate buses बसों की संख्या दर्शाते हैं।



प्रश्न 16: Bus stands 'A' और 'C' पर interstate buses की कुल संख्या और bus stand 'E' पर intrastate buses की संख्या का अनुपात ज्ञात करें?

- A) 3:2
- B) 2:1
- C) 1:1
- D) 5:4
- E) 4:7

प्रश्न 17: Bus stand 'C' पर buses (interstate + intrastate) की कुल संख्या bus stand 'D' पर interstate buses की संख्या से कितना प्रतिशत अधिक / कम है।

- A) 75%
- B) 60%
- C) 80%
- D) 45%
- E) इनमें से कोई नहीं

प्रश्न 18: यदि bus stand 'E' पर interstate buses का एक- तिहाई और intrastate buses का 20% रात के समय चलती हैं, तो दिन में चलने वाली (interstate + intrastate) buses की संख्या कितनी है?

- A) 220
- B) 180
- C) 250
- D) 120
- E) 300

प्रश्न 19: Bus stands 'A' और 'B' पर intrastate buses की संख्या और bus stand 'D' में buses की कुल संख्या (interstate + intrastate) के बीच का अंतर ज्ञात करें?

- A) 100
- B) 120
- C) 130
- D) 80
- E) इनमें से कोई नहीं

प्रश्न 20: Bus stand 'F' पर interstate buses की संख्या bus stand 'D' की तुलना में 80 अधिक है। यदि Bus stand 'F' पर intrastate buses की संख्या उस bus stand में interstate buses की संख्या से 25% अधिक है, तो bus stand 'F' पर कुल buses (interstate + intrastate) की संख्या कितनी है?

- A) 540
- B) 320
- C) 360
- D) 450
- E) 480

प्रश्न 21: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$1728 + 270 \div 6 = ? \times 9$$

- A) 108
- B) 152
- C) 197

D) 242

E) 274

प्रश्न 22: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$750\% \text{ of } 360 - ? \times 50 = 1050$$

A) 12

B) 33

C) 58

D) 76

E) 99

प्रश्न 23: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$2000 \div \sqrt{625} + (77/3) \times 12 = ?$$

A) 338

B) 348

C) 398

D) 388

E) 288

प्रश्न 24: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$36 \text{ of } 24 \div 12 + (25 \times 18) \div 45 = ?$$

A) 44

B) 82

C) 115

D) 146

E) 192

प्रश्न 25: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$320 + (24)^2 \div 16 \times 25 = ?$$

A) 700

- B) 800
- C) 900
- D) 1220
- E) 1100

प्रश्न 26: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$\sqrt{(484 \times 196)} \div 14 - 4 = ?^2 - 103$$

- A) 6
- B) 11
- C) 22
- D) 36
- E) 49

प्रश्न 27: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$[(3)^9 \div (3)^4 \times (3)^4] \div [(3)^8 \div (3)^4] = (3)^?$$

- A) 3
- B) 8
- C) 5
- D) 4
- E) 2

प्रश्न 28: दिए गए समीकरण में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा?

$$252 \times 4 + 3660 \div 366 = ? + 16 \times 6$$

- A) 744
- B) 812
- C) 922
- D) 1002
- E) 1112

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प्रश्न 29:

दिए गये समीकरण में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

$$(5/12) \times 480 + 150 = ?\% \text{ of } 875$$

A) 30

B) 35

C) 20

D) 40

E) 25

प्रश्न 30:

दिए गये समीकरण में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

$$25\% \text{ of } 960 + 240 = ? \times 24$$

A) 36

B) 32

C) 30

D) 24

E) 20

प्रश्न 31:

दिए गये समीकरण में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

$$(220 + 180) \div 4 + (24 \times 2.5) = ?$$

A) 150

B) 100

C) 160

D) 120

E) 200

प्रश्न 32:

दिए गये समीकरण में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

$$(18 \times 5) + 12.5\% \text{ of } 480 = ? \times 3$$

A) 45

B) 50

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C) 20

D) 40

E) 30

प्रश्न 33:

दिए गये समीकरण में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

$$(15^2 + 125) \div 5 + 200 = ? \times 15$$

A) 24

B) 18

C) 16

D) 14

E) 22

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प्रश्न 34:

दिए गये समीकरण में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

$$(? \times 24) - 88 = 25\% \text{ of } 800$$

A) 14

B) 12

C) 16

D) 18

E) 20

प्रश्न 35: तीन संख्याओं का औसत 42.5 है, जबकि पहली दो संख्याओं का औसत 38.75 है, फिर शेष तीसरी संख्या ज्ञात करें?

A) 45.5

B) 47

C) 48

D) 50

E) 52.5

ANSWER KEYS and SOLUTIONS:

1) - C)	2) - A)	3) - C)	4) - E)	5) - B)	6) - C)
7) - C)	8) - C)	9) - A)	10) - A)	11) - A)	12) - C)
13) - B)	14) - A)	15) - E)	16) - C)	17) - A)	18) - A)
19) - B)	20) - D)	21) - C)	22) - B)	23) - D)	24) - B)
25) - D)	26) - B)	27) - C)	28) - C)	29) - D)	30) - E)
31) - C)	32) - B)	33) - B)	34) - B)	35) - D)	

Solution 1: C)

$$81 + 2^1 = 83$$

$$83 + 2^2 = 87$$

$$87 + 2^3 = 95$$

$$95 + 2^4 = 111$$

$$111 + 2^5 = 143$$

Hence, option c.

Solution 2: A)

$$24 \div 3 = 8$$

$$8 + 7 = 15$$

$$15 \div 3 = 5$$

$$5 + 7 = 12$$

$$12 \div 3 = 4$$

Hence, option a.

Solution 3: C)

$$111 - 2! = 109$$

$$109 + 3! = 115$$

$$115 - 4! = 91$$

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$$91 + 5! = 211$$

$$211 - 6! = -509$$

Hence, option c.

Solution 4: E)

$$25 + (8 \times 2) = 41$$

$$121 + (8 \times 4) = 73$$

$$73 + (8 \times 6) = 121$$

$$121 + (8 \times 8) = 185$$

$$185 + (8 \times 10) = 265$$

Hence, option e.

Solution 5: B)

$$16 \times 1 = 16$$

$$16 \times 2 = 32$$

$$32 \times 3 = 96$$

$$96 \times 4 = 384$$

$$384 \times 5 = 1920$$

Hence, option b.

Solution 6: C)

$$\text{Speed of the current} = 12/2 = 6 \text{ km/hr}$$

$$\text{Speed of the boat on still water} = 6 + 14 = 20 \text{ km/hr}$$

$$\text{Downstream speed of the boat} = 20 + 6 = 26 \text{ km/hr}$$

Hence, option c.

Solution 7: C)

Let present age of Ranu and Rekha is '5x' years and '6x' years, respectively.

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According to the question,

$$(5x + 5)/(6x + 5) = 6/7$$

$$\text{Or, } 35x + 35 = 36x + 30$$

$$\text{Or, } x = 5$$

Present age of Ranu = $5 \times 5 = 25$ years

Hence, option c.

Solution 8: C)

Side of square = $\sqrt{484} = 22$ metres

Area of rectangle = 330 m^2

$$\text{Breadth} \times 22 = 330$$

Or, Breadth of the rectangle = 15 metres

Perimeter of the rectangle = $2 \times (15 + 22) = 74$ metres

Hence, option c.

Solution 9: A)

Let total number of guests in the resort be 'x'

Number of guests who ate pizza = $0.3x$

Number of guests who ate burger = $0.2x$

Number of guests who ate cake = $0.3 \times \{x - (0.3x + 0.2x)\} = 0.3 \times 0.5x = 0.15x$

According to the question,

$$0.15x = 810$$

$$\text{Or, } x = 810/0.15 = 5400$$

Therefore, total number of guests in the resort = 5400

Hence, option a.

Solution 10: A)

$$\text{Speed of Jai Exp.} = 20 \times (18/5) = 72 \text{ km/hr}$$

$$\text{Distance travelled by Jai Exp. in 5 hours} = 72 \times 5 = 360 \text{ km}$$

$$\text{Distance travelled by Jai Exp. and Shakti Exp. together in next 2 hours} = 2 \times (108 + 72) = 360 \text{ km}$$

$$\text{Total distance} = 360 + 360 = 720 \text{ km}$$

Hence, option a.

Solution 11: A)

$$\text{Respective ratio of the profit share of Anita, Ajay and Vishal} = (24000 \times 12):(30000 \times 12):(36000 \times 8) = 4:5:4$$

$$\text{Profit share of Ajay} = 1820 \times \{5/(4 + 5 + 4)\} = \text{Rs. } 700$$

Hence, option a.

Solution 12: C)

$$\text{Remaining quantity of the original mixture} = 120 - 24 = 96 \text{ litres}$$

$$\text{Quantity of butter in final mixture} = 96 \times (5/12) + 24 = 64 \text{ litres}$$

$$\text{Quantity of oil in final mixture} = 96 \times (7/12) = 56 \text{ litres}$$

$$\text{Ratio of butter and oil in the final mixture} = 64:56 = 8:7$$

Hence, option c.

Solution 13: B)

$$\text{Selling price of the product} = 4400 \times 1.25 \times 0.70 = \text{Rs. } 3850$$

$$\text{Loss percentage} = [(4400 - 3850)/4400] \times 100 = 12.5\%$$

Hence, option b.

Solution 14: A)

Let, the total work is 60 units (LCM of 10, 12 and 15)

$$\text{Efficiency of 'A'} = 60/10 = 6 \text{ units/day}$$

$$\text{Efficiency of 'B'} = 60/12 = 5 \text{ units/day}$$

Efficiency of 'C' = $60/15 = 4$ units/day

Desired time = $[(0.60 \times 60)/(6 + 5) + (0.40 \times 60)/4] = 36/11 + 24/4 = (36 + 66)/11 = 102/11$ days

Hence, option a.

Solution 15: E)

According to the question,

$$\{(x + 250) \times 0.20 \times 4\} = 0.8x + 200$$

$$\text{Or, } 0.8x + 200 = 0.8x + 200$$

Therefore, value of 'x' cannot be determined

Hence, option e.

Solution 16: C)

Bus stands	Number of interstate buses	Number of intrastate buses
A	60	30
B	30	60
C	90	120
D	120	90
E	150	150

Required ratio = $(60 + 90):150 = 1:1$

Hence, option c.

Solution 17: A)

Total number of buses at bus stand 'C' = $90 + 120 = 210$

Required percentage = $\{(210 - 120)/120\} \times 100 = 75\%$

Hence, option a.

Solution 18: A)

Required number of buses = $\{(2/3) \times 150\} + (0.8 \times 150) = 100 + 120 = 220$

Hence, option a.

Solution 19: B)

$$\text{Required difference} = (120 + 90) - (30 + 60) = 120$$

Hence, option b.

Solution 20: D)

$$\text{Number of interstate buses at bus stand 'F'} = 120 + 80 = 200$$

$$\text{Number on intrastate buses at bus stand 'F'} = 1.25 \times 200 = 250$$

$$\text{Therefore, required number of buses} = 200 + 250 = 450$$

Hence, option d.

Solution 21: C)

$$1728 + 270 \div 6 = ? \times 9$$

$$1728 + 45 = ? \times 9$$

$$1728 + 45 = ? \times 9$$

$$1773 = ? \times 9$$

$$? = 197$$

Hence, option c.

Solution 22: B)

$$750\% \text{ of } 360 - ? \times 50 = 1050$$

$$2700 - ? \times 50 = 1050$$

$$? \times 50 = 1650$$

$$? = 33$$

Hence, option b.

Solution 23: D)

$$2000 \div \sqrt{625} + (77/3) \times 12 = ?$$

$$2000 \div 25 + 308 = ?$$

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$$80 + 308 = ?$$

$$? = 388$$

Hence, option d.

Solution 24: B)

$$36 \text{ of } 24 \div 12 + (25 \times 18) \div 45 = ?$$

$$36 \text{ of } 24 \div 12 + 10 = ?$$

$$864 \div 12 + 10 = ?$$

$$? = 82$$

Hence, option b.

Solution 25: D)

$$320 + (24)^2 \div 16 \times 25 = ?$$

$$320 + 576 \div 16 \times 25 = ?$$

$$320 + 36 \times 25 = ?$$

$$320 + 900 = ?$$

$$? = 1220$$

Hence, option d.

Solution 26: B)

$$\sqrt{(484 \times 196) \div 14} - 4 = ?^2 - 103$$

$$(22 \times 14) \div 14 - 4 = ?^2 - 103$$

$$22 - 4 = ?^2 - 103$$

$$?^2 = 121$$

$$? = \pm 11$$

Hence, option b.

Solution 27: C)

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$$[(3)^9 \div (3)^4 \times (3)^4] \div [(3)^8 \div (3)^4] = (3)^?$$

$$[(3)^9] \div (3)^4 = (3)^?$$

$$(3)^9 \div (3)^4 = (3)^?$$

$$(3)^5 = (3)^?$$

$$? = 5$$

Hence, option c.

Solution 28: C)

$$252 \times 4 + 3660 \div 366 = ? + 16 \times 6$$

$$1008 + 10 = ? + 96$$

$$? = 922$$

Hence, option c.

Solution 29: D)

$$(5/12) \times 480 + 150 = ?\% \text{ of } 875$$

$$(5 \times 40) + 150 = ?\% \text{ of } 875$$

$$? = (350/875) \times 100$$

$$? = 40$$

Hence, option d.

Solution 30: E)

$$25\% \text{ of } 960 + 240 = ? \times 24$$

$$0.25 \times 960 + 240 = ? \times 24$$

$$? = (240 + 240) \div 24$$

$$? = 480 \div 24$$

$$? = 20$$

Hence, option e.

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Solution 31: C)

$$(220 + 180) \div 4 + (24 \times 2.5) = ?$$

$$(400 \div 4) + 60 = ?$$

$$? = 100 + 60$$

$$? = 160$$

Hence, option c.

Solution 32: B)

$$(18 \times 5) + 12.5\% \text{ of } 480 = ? \times 3$$

$$90 + 0.125 \times 480 = ? \times 3$$

$$? = (90 + 60) \div 3$$

$$? = 50$$

Hence, option b.

Solution 33: B)

$$(15^2 + 125) \div 5 + 200 = ? \times 15$$

$$(225 + 125) \div 5 + 200 = ? \times 15$$

$$? = (70 + 200) \div 15$$

$$? = 18$$

Hence, option b.

Solution 34: B)

$$(? \times 24) - 88 = 25\% \text{ of } 800$$

$$(? \times 24) - 88 = 0.25 \times 800$$

$$? = (200 + 88) \div 24$$

$$? = 12$$

Hence, option b.

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Solution 35: D)

$$\text{Required number} = 42.5 \times 3 - 38.75 \times 2$$

$$= 127.5 - 77.5$$

$$= 50$$

Hence, option d.

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