

# EPFO Assistant Prelims 2019

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## Memory Based Questions PDF





13. I.  $2x^2 - 3x + 1 = 0$   
 II.  $y^2 - 5y + 4 = 0$

Ans. D

14. I.  $x^2 + 3x + 2 = 0$   
 II.  $y^2 + 8y + 12 = 0$

Ans. C

15. I.  $x^2 - 19x + 84 = 0$   
 II.  $y^2 - 7y + 10 = 0$

Ans. A

16.  $22 \times 5 - ?^2 = \sqrt{841}$

Ans. 9

17.  $3 \times 55 \div 0.05 = ? \times 300$

Ans. 11

18.  $8\sqrt{5} \times 12 \div 24\sqrt{5} = ?$

Ans. 4

19.  $(6 \times 25) \div ? + 2/3 = 34$

Ans. 4.5

20.  $1.5 \times ? - 16 = 50 \times 0.04$

Ans. 12

21.  $\sqrt{? \times 14} = 6^2 - 29$

Ans. 3.5

22.  $(21 \div 0.05 + 34) \times ? = 2270$

Ans. 5

23.  $\left( \sqrt{\frac{9}{64}} + \frac{1}{2} \right) \times 240 = ?$

Ans. 210

24.  $\sqrt{5.76} - 1.4 = 5^? \div 25$

Ans. 2

## REASONING

**Direction (1-3):** Study the information given below and answer them carefully. G is 19m to the east of H. G is 6m to the south of J. K is 25m to the east of J. K is 12m to the north of L. M is 44m to the west of L.

1. How far and in which direction is M with respect to H?

- A. 6m, South
- B. 19m, North
- C. 12m East
- D. 8m, East
- E. 25m, West

Ans. A

2. If Z is 6m north of L then which among the following points lie in the straight line?

- A. HZM
- B. ZCG
- C. ZKM
- D. HGZ
- E. JHZ

Ans. D

3. What is the position of G with respect to L?

- A. South
- B. South East
- C. North West
- D. West
- E. None of these

Ans. C

4. The position of how many digits will remain unchanged if each of the digits in the number '8619354' is arranged in ascending order from left to right?

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

Ans: E

5. How many such pairs of letters are there in the word EMPOWER, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?

- A. One
- B. Two
- C. Three
- D. More than three
- E. None

Ans: D

6. If in the word 'CHLORINE', all the vowels are first arranged in English alphabetical order and then all the consonants are arranged in English alphabetical order and after that each letter is changed to the next letter as per the English alphabetical order, then which letter will be fourth from the left end?

- A. J
- B. P
- C. D
- D. I
- E. M

Ans: C

**Direction (7-10):** In the question below are given three statements followed by two conclusions which are numbered as I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**7. Statements:**

No test is paper.  
Only a few papers are boat.  
Only a few boats are notes.

**Conclusions:**

- I. At least some papers are notes.
- II. All boats can never be test.
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusions I and II are true

Ans: B

**8. Statements:**

All vision are looks  
Only a few looks are eye.  
Only a few eyes are fans.

**Conclusions:**

- I. No vision is eye.
- II. All looks can never be fans.
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusions I and II are true

Ans: D

**9. Statements:**

Only a few bins are nets.  
Only a few nets are tips.  
All tips are pans.

**Conclusions:**

- I. All nets can never be pans.
- II. At least some bins are tips.
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusions I and II are true

Ans: D

**10. Statements:**

Only a few modes are types.  
All types are prints.  
No print is image.

**Conclusions:**

- I. At least some modes are prints.
- II. No type is image.
- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusions I and II are true

Ans: E

**Direction (11-15):** Study the information given below and answer them carefully.

Eight people A, B, C, D, J, K, L and M are sitting around a square table such that four people sit at the corners of the table and four people sit at the middle sides of the table. The people sitting at the corner face towards the centre of the table and the people sitting in the middle of the sides face opposite towards the centre of the table.

K is sitting at one of the middle sides of the table. Three people sit between K and A. J and A are immediate neighbours. Two people sit between J and D. L sits third to the left of D. Three people sit between C and L. Only one person is sitting between C and M.

11. Four of the following five are alike in a certain way, which one of the following does not belong to the group?

- A. B
- B. M
- C. L
- D. J
- E. C

Ans. A

12. Which of the following statements is true regarding B?

- A. Three people sit between B and M
- B. B sits at the corner of the table
- C. J and L are neighbours of B
- D. B sits second to the left of A
- E. None of these

Ans. C

13. What is the position of C with respect to A?

- A. Immediate right
- B. Immediate left
- C. Second to the left
- D. Third to the right
- E. None of these

Ans. B

14. How many people sit between C and A when counted from the right of A?

- A. One
- B. Three
- C. None
- D. Four
- E. Six

Ans. E

15. Who is sitting second to the left of J?

- A. C
- B. K
- C. L
- D. M
- E. D

Ans. C

**Direction (16-18):** In each of the questions, relationships between some elements are shown in the statements. These statements are followed by two conclusions numbered I and II. Read the statements and give the answer.

16. **Statements:**

$N \leq A \leq M = E; M \leq O = S$

**Conclusions:**

I.  $S > N$

II.  $N = S$

- A. Only conclusion I is true
- B. Only conclusion II is true

C. Either conclusion I or conclusion II is true

D. Neither conclusion I nor conclusion II is true

E. Both conclusion I and II are true

Ans: C

17. **Statements:**

$N \leq A \leq M = E; M \leq O = S$

**Conclusions:**

I.  $O \geq E$

II.  $A \leq S$

A. Only conclusion I is true

B. Only conclusion II is true

C. Either conclusion I or conclusion II is true

D. Neither conclusion I nor conclusion II is true

E. Both conclusion I and II are true

Ans: E

18. **Statements:**

$J \leq A = S \leq M = I > N$

**Conclusions:**

I.  $N < A$

II.  $I \geq J$

A. Only conclusion I is true

B. Only conclusion II is true

C. Either conclusion I or conclusion II is true

D. Neither conclusion I nor conclusion II is true

E. Both conclusion I and II are true

Ans: B

**Direction (19-23):** Study the information given below and answer them carefully.

Eight people are living in a eight-storey building, but not necessarily in the same order. The ground floor is numbered 1; the floor above it is numbered 2; and so on, until the topmost floor is numbered 8. More than five people live above V. Two people live between V and P. Three people live between P and T. Only one person is living between T and Q. The number of people living below Q is same as the number of people living above R. K lives on an even numbered floor immediately above S. W lives on one of the floors below S.

19. Four of the following five are alike in a certain way, which one of the following does not belong to the group?

- A. RS
- B. PR
- C. SW
- D. VT
- E. QV

Ans. C

20. Who among the following lives immediately above W?

- A. S
- B. R
- C. P
- D. V
- E. Q

Ans. C

21. On which of the following floor does R live?

- A. 4<sup>th</sup>
- B. 7<sup>th</sup>
- C. 5<sup>th</sup>
- D. 3<sup>rd</sup>
- E. 6<sup>th</sup>

Ans. E

22. How many people are sitting between V and R?

- A. One
- B. None
- C. Four
- D. Five
- E. Three

Ans. E

23. Which of the following statements is true regarding W?

- A. Three people sit below W
- B. W lives on an odd numbered floor
- C. V lives immediately above W
- D. The number of persons above W is same as the persons below S
- E. R lives immediately below W

Ans. A

## ENGLISH

**Direction (1-4):** Rearrange the following segments to form a coherent sentence.

1.

- A. To the construction of a
- B. Cricket among the
- C. Cricket ground in the colony
- D. The renewed interest in
- E. Children is largely due

- A. ABCDE
- B. BACED

- C. DBEAC
- D. CAEDB
- E. EBACD

Ans. C

Sol. The correct logical order is DBEAC. BE is a logical pair, as B uses the word 'among' implying a non-distinctive group of more than two people, which in fact is 'children' mentioned in E. AC is another logical pair as 'construction' mentioned in A can only be related to 'cricket ground' mentioned in C. 'Due' mentioned in E will be followed by 'to' mentioned in A. The order DBEAC makes a coherent sentence "The renewed interest in cricket among the children is largely due to the construction of a cricket ground in the colony".

2.

- A. His senior manager
- B. Significant increase in the salary
- C. A multinational company because
- D. He turned down the job offer by
- E. Promised him a promotion and a

- A. ABCDE
- B. DCAEB
- C. DBEAC
- D. CAEDB
- E. EABCD

Ans. B

Sol. The correct logical order is DCAEB. The sentence conveys a situation involving a cause and effect. The context implies that a person turned down an offer because of an offer made to him by his manager. In this regard, the opening part will be D which mentions "He turned down the job offer **by**". The agent who made the offer has been mentioned in part C i.e. "A multinational company". So, C will follow D. The reason has been provided in part E and B, in the same order connected by the conjunction 'and'. A will come before E as it expresses who made the new offer. So, the correct sentence is "He turned down the job offer by a multinational company because his senior manager promised him a promotion and a significant increase in the salary".

3.  
A. Path as a prank  
B. Yesterday, my mother tripped on  
C. That someone had  
D. A piece of wire  
E. Stretched across the

- A. BDCEA  
B. CDABA  
C. DEBAC  
D. BCEDA  
E. EABDC

Ans. A

Sol.

The correct logical order is BDCEA. The sentence describes a situation wherein the speaker's mother tripped yesterday on a wire placed by someone across a path. In this regard, part B will be the introductory one as it mentions "Yesterday my mother tripped **on**". The object on which she tripped has been mentioned in D i.e. "A piece of wire". A subordinate clause is then introduced by the use of 'that' in C. CE is a logical pair making the past perfect structure "had + stretched". "across the path" is an appropriate phrase making EA another logical pair. So, the correct sentence is "Yesterday my mother tripped on a piece of wire that someone had stretched across the path as a prank".

4.  
A. Important documents along  
B. For college in a hurry  
C. Angry because she had left  
D. And had forgotten to take the  
E. Her mother was

- A. BDECA  
B. ECBDA  
C. DEBAC  
D. CBEDA  
E. EABDC

Ans. B

Sol. The correct logical order is ECBDA. The sentence describes a situation involving a cause and effect. The context implies that the mother was angry because of something. The most appropriate part to start the sentence is E which mentions the subject "Her mother". E will be followed by C which

mentions that the mother was angry because she had left. The place to which she had left has been mentioned in B i.e. "college". DA is a logical pair connected by the phrasal expression "take along". So, the correct sentence is "Her mother was angry because she had left for college in a hurry and had forgotten to take the important documents along"

**Direction (5-7):** Out of the four statements given below, find the one which is grammatically incorrect.

5.

- A. We are not going for the picnic this year.  
B. His niece is very creative and can make ornaments out of waste items.  
C. Neha complained to her mother about the behaviour of her sister  
D. All are correct.  
E. The students promised to work hard in the next examination.

Ans. A

Sol. The incorrect sentence is A. The error in the sentence is in the use of preposition 'for'. 'For' is used to indicate period of time/ a schedule. Here, we need to use the preposition 'to' in order to impart the context of a destination.

6.

- A. Her brother quietly opened her cupboard and took a money.  
B. None is correct  
C. He was asked to cut the fruits by his mother.  
D. The training will help us in understanding the system.  
E. I had intended to return the library books this evening.

Ans. A

Sol. The incorrect sentence is A. The error in the sentence is in the use of article 'a'. The noun 'money' is either used without an article or with definite article. "The money" refers to some specific money, and "money (no article)" means money as a general phenomenon or idea. Here, we need to use "the money" to make the sentence grammatically correct.

- 7.
- A. This election day we are going be dressed in white outfits.
  - B. Everything must be sort into neat piles.
  - C. None is correct
  - D. He is very proud off his daughter who stood second in her class.
  - E. He call to ask that we are going for the graduation party.

Ans. C

Sol. None of the sentences are correct. In option A, we need to add 'to' before 'be' to make the sentence correct. In option B, we need to use participle form of the verb 'sort' i.e. 'sorted' to make the sentence correct. In option D, we need to replace 'off' with 'of' to make the sentence correct. In option E, we need to replace 'call' with 'called' and add 'if' before 'we' to make the sentence correct.

**Direction (8-12):** In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the emboldened part are given as (A), (B), (C) and (D), which may help improve the sentence. Choose the correct alternative out of the given five options. In case the given sentence is correct, your answer will be option (E), i.e., "No correction required".

8. The parcel had been **wrap loose** and was opened by the courier service.
- A. No correction required
  - B. properly wraps
  - C. come out
  - D. wrapping loose
  - E. loosely wrapped

Ans. E

Sol. The use of auxiliary 'had been' indicates the use of past perfect tense. The tense structure requires the use of the verb in past participle form. So, we need to use past participle form 'wrapped'. Option E is the only option which makes use of this. The adverb 'loosely' aptly modifies the verb 'wrapped'. So, the correct answer is option E.

9. He told the court that the people **participate** in the research were volunteers.

- A. took parts
- B. No correction required
- C. who had participated
- D. shared their
- E. contributing for

Ans. C

Sol. The act of participation is complete as implied by the use of past tense form of verbs in the sentence (told, were). So, the given sentence, option A and E are incorrect. D is contextually inappropriate. Option C appropriately makes use of the pronoun 'who' referring to the people and the past perfect tense structure (had+ past participle). So, the correct answer is option C.

10. The council has decided to cut down the trees **were in line** the highway.

- A. No correction required
- B. was besides
- C. had been side of
- D. side of
- E. along

Ans. E

Sol. We need to use a preposition or a prepositional phrase to connect the noun 'trees' to 'the highway'. The most appropriate option is E which points out that, the council has decided to cut down the trees **along** the highway. 'Along' as a preposition means 'extending in a more or less horizontal line on a surface'. So, the correct answer is option E.

11. The argument he had put forth **was not substance**.

- A. held substance
- B. was substantial
- C. highly significant
- D. neither important
- E. No correction required

Ans. B

Sol. The use of past perfect auxiliary 'had put' indicates the requirement of the second event to be in the simple past tense. This renders option A and B as feasible choices. But since we require an adjective to modify the noun 'argument', we must use the word 'substantial'. So, the correct answer is option B.

12. The movie really **tested** the patience of the audience.

- A. No correction required
- B. Stretched the
- C. exhausting
- D. seen the value
- E. choose the strains

Ans. A

Sol. The sentence is grammatically and contextually correct. So, the correct answer is option A.

**Direction (13-17):** Rearrange the following six sentences, (A), (B), (C), (D), (E) and (F), in a proper sequence to form a meaningful paragraph, then answer the questions that follow.

(A) As they went in the river the water got up to their neck. But to the young man's surprise the wise man ducked him into the water.

(B) The wise man asked, "What did you want the most when your head was in the water?" The young man replied, "Air." The wise man said, "That is the secret to success. When you want success as badly as you wanted the air while you were in the water, then you will get it. There is no other secret."

(C) Once a young man asked the wise man the secret to success.

(D) The young man struggled to get out of the water, but the wise man was strong and kept him there until the boy started turning blue. The wise man pulled the man's head out of the water. The young man gasps and took a deep breath of air.

(E) The wise man patiently listened to the man's question and told him to meet him near the river the next morning for the answer.

(F) The next morning the wise man asked the young man to walk with him towards the river.

13. Which of the following will be the LAST statement after rearrangement?

- A. E
- B. D
- C. C
- D. B
- E. A

Ans. D

Sol. The correct logical order is CEFADB. The passage narrates a course of events that followed when a young man asked a

wise man, the secret to success. The most appropriate sentence to open the passage is C. C will be followed by E which mentions that on listening to the young man's question, the wise man asked him to meet the next morning. The next morning the wise man asked the young one to walk with him towards the river. Thus, E will be followed by F. They together walked into the river as mentioned in A, where the wise man ducked the young man into the river. He kept him under the water until the young man started turning blue as mentioned in D. Then the wise man pulled the young man's head out of water and told him the secret to success as mentioned in B.

14. Which of the following will be the THIRD statement after rearrangement?

- A. D
- B. A
- C. B
- D. C
- E. F

Ans. E

Sol. The correct logical order is CEFADB. The passage narrates a course of events that followed when a young man asked a wise man, the secret to success. The most appropriate sentence to open the passage is C. C will be followed by E which mentions that on listening to the young man's question, the wise man asked him to meet the next morning. The next morning the wise man asked the young one to walk with him towards the river. Thus, E will be followed by F. They together walked into the river as mentioned in A, where the wise man ducked the young man into the river. He kept him under the water until the young man started turning blue as mentioned in D. Then the wise man pulled the young man's head out of water and told him the secret to success as mentioned in B.

15. Which of the following will be the SECOND statement after rearrangement?

- A. A
- B. C
- C. E
- D. B
- E. D

Ans. C

Sol. The correct logical order is CEFADB.

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The passage narrates a course of events that followed when a young man asked a wise man, the secret to success. The most appropriate sentence to open the passage is C. C will be followed by E which mentions that on listening to the young man's question, the wise man asked him to meet the next morning. The next morning the wise man asked the young one to walk with him towards the river. Thus, E will be followed by F. They together walked into the river as mentioned in A, where the wise man ducked the young man into the river. He kept him under the water until the young man started turning blue as mentioned in D. Then the wise man pulled the young man's head out of water and told him the secret to success as mentioned in B.

16. Which of the following will be the FIFTH statement after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. E

Ans. D

Sol. The correct logical order is CEFADB. The passage narrates a course of events that followed when a young man asked a wise man, the secret to success. The most appropriate sentence to open the passage is C. C will be followed by E which mentions that on listening to the young man's question, the wise man asked him to meet the next morning. The next morning the wise man asked the young one to walk with him towards the river. Thus, E will be followed by F. They together walked into the river as mentioned in A, where the wise man ducked the young man into the river. He kept him under the water until the young man started turning blue as mentioned in D. Then the wise man pulled the young man's head out of water and told him the secret to success as mentioned in B.

17. Which of the following will be the FIRST statement after rearrangement?

- A. E
- B. F
- C. C
- D. A
- E. B

Ans. C

Sol.

The correct logical order is CEFADB.

The passage narrates a course of events that followed when a young man asked a wise man, the secret to success. The most appropriate sentence to open the passage is C. C will be followed by E which mentions that on listening to the young man's question, the wise man asked him to meet the next morning. The next morning the wise man asked the young one to walk with him towards the river. Thus, E will be followed by F. They together walked into the river as mentioned in A, where the wise man ducked the young man into the river. He kept him under the water until the young man started turning blue as mentioned in D. Then the wise man pulled the young man's head out of water and told him the secret to success as mentioned in B.

**Direction (18-19):** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits in the blank making the sentence grammatically correct and meaningful.

18. Only one person was \_\_\_\_\_ to operate the local services.

- A. Designated
- B. Allow
- C. Abandon
- D. Followed
- E. Treated

Ans. A

Sol. The context of the sentence is that only one person was given with the authority to operate the local services. So, the correct option is 'designated' meaning 'to choose someone officially to do a particular job'.

19. The man stopped the car and \_\_\_\_\_ the man who was driving the adjacent car with his collar.

- A. Caught
- B. Rammed
- C. Banged
- D. Faced
- E. See

Ans. A

Sol. The sentence mentions that the man did something with the other man's collar. In this regard, 'caught' is the only feasible option which means held the other man by his collar.

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