QUANTITATIVE APTITUDE

1. The ratio of speed of a boat in still water to speed of running water is 10 : 1. If ratio of time taken by the boat to travel D km downstream to that of time taken to travel D – 45 km upstream is 3 : 2 then find the value of D ?
   A. 88   B. 54
   C. 110   D. 99
   E. 66
   Ans. D

2. 4 years hence sum of A’s age and B’s age is 16 more than the sum of present age of B and C. If sum of A’s age 4 years ago and C’s age 4 years ago was 32 then what is C’s present age ?
   A. 18   B. 14
   C. 10   D. 16
   E. 12
   Ans. D

3. 40 men can complete a work in 48 days. If 64 men started working and after X days 32 more men joined the work. If the remaining work is completed in \(16 \frac{2}{3}\) days, then find the value of X ?
   A. 2   B. 5
   C. 8   D. 4
   E. 6
   Ans. B

4. A started a project by investing Rs. X and after 6 months, B invested Rs. 4,000 more than what A had invested. At the end of the year the ratio of the overall profit to that of B was 7 : 3. What was the value X?
   A. 2000   B. 5000
   C. 8000   D. 4000
   E. 6000
   Ans. C

Directions (5-9) : The percentage of visitors (male and female) to a museum on 3 days is depicted in the pie chart below. Total number of visitors on the three days is 400.

5. On Tuesday the number of female visitors was 1/5 more than that of Saturday. If the respective ratio between the number of male visitors and that of female visitors is 11 : 15 on Tuesday, what was the total number of visitors (male and female) on Tuesday ?
   A. 208   B. 104
   C. 182   D. 130
   E. 156
   Ans. B

6. What is the total number of male visitors on the 3 days together ?
   A. 220   B. 230
   C. 200   D. 210
   E. 190
   Ans. D

7. Out of the total no. of visitors on Saturday 35% were adults the cost for 1 adult’s ticket is double that for one children’s ticket. If the total amount collected from selling ticket on Saturday was 8100. What is the cost of 1 adult’s ticket.
   A. 200   B. 160
   C. 120   D. 100
   E. 50
   Ans. D
8. What is central angle corresponding to the no. of visitors (male and female) on Sunday (in degrees) ?
   A. 172.8
   B. 165.6
   C. 162
   D. 154
   E. 198
   Ans. C

9. What is the no. of female visitors on Friday was what percentage of no. of female visitors on Sunday ?
   A. 70%
   B. 85%
   C. 80%
   D. 65%
   E. 75%
   Ans. E

Directions (10-12) : The number of bread loaf sold by 5 stores A, B, C, D and E in a particular period has been plotted on the bar graph below:

10. The number of whole wheat bread sold by store A was what percent less than the whole wheat bread sold by store C.
    A. 48
    B. 50
    C. 52
    D. 55
    E. 56
    Ans. C

11. What is the average no. of multi-grain bread loaf sold by B, D and E?
    A. 68
    B. 70
    C. 72
    D. 80
    E. None of these
    Ans. D

12. What is the respective ratio of total no. of bread loaf sold by D to E?
    A. 61 : 63
    B. 41 : 43
    C. 21 : 23
    D. 31 : 33
    E. None of these
    Ans. B

13. Find the missing term in given series. 26, 63, 124, 215, ?
    A. 315
    B. 421
    C. 342
    D. 426
    E. 388
    Ans. C

Directions (10-12) : The number of bread loaf sold by 5 stores A, B, C, D and E in a particular period has been plotted on the bar graph below:

14. Find the missing term in given series. 26, 110, 54, 26, ?
    A. 8
    B. 11
    C. 13
    D. 9
    E. 12
    Ans. E

15. Find the missing term in given series. 15, 8, 9, 15, 32, ?
    A. 82.5
    B. 81.5
    C. 84.5
    D. 80.5
    E. 86
    Ans. A

16. Find the missing term in given series. 5, 30, 150, 600, ?, 3600
    A. 1200
    B. 1800
    C. 1600
    D. 2400
    E. 3200
    Ans. B

17. Find the missing term in given series. 200, 197, 185, 163, 130, ?
    A. 80
    B. 85
    C. 82
    D. 84
    E. 86
    Ans. B

Directions (18-20) : In the following question two equations are given in variables X and Y. You have to solve these equations and determine the relation between X and Y.

18. 1. 5x + 2y = 31
    2. 3x + 7y = 36
    A. X > Y
    B. X ≥ Y
    C. X < Y
    D. X ≤ Y
    E. X = Y or No unique relation.
    Ans. A

19. 1. x^2 - 7x + 12 = 0
    2. y^2 - 9y + 20 = 0
    A. X > Y
    B. X ≥ Y
    C. X < Y
    D. X ≤ Y
    E. X = Y or No unique relation.
    Ans. D

20. 1. (x + 1)^2 = 12^2
    2. y^2 + 2y - 143 = 0
    A. X > Y
    B. X ≥ Y
    C. X < Y
    D. X ≤ Y
    E. X = Y or No unique relation.
    Ans. B

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ENGLISH LANGUAGE

**Direction (1-5):** Read the following information carefully and answer the questions that follow:

Renewable Energy (RE) is the future. With that said, one can argue that the future has arrived, in parts at least. Worldwide acceptance towards green energy is giving the sustainable energy sector more market share every year. The growth is consistent, with each year out-performing the previous, leading renewable energy to account for 1/3rd of global energy capacity.

It’s fair to state that the growth trajectory is incredible, and considering that it took only a little more than a just decade to reach this position, we could call it ___________. However, the most important question is, is this satisfactory? The goal of green energy transition is to solve growing energy scarcity and reduce dependency on fossil fuels in order to move towards a fully sustainable energy landscape. Therefore, to identify success, we need to compare renewable energy growth with the current scenario.

According to WHO’s estimates, currently, more than 7 million people die every year from pollution, up from 4.2 million in 2016. Fossil fuel consumption has increased globally from 94,462/twh in 2000 to 1,33,853/twh now. The rise in population (currently 7.7 billion) indicates a steady growth in energy demand worldwide. In comparison, the fact that renewable energy took a decade to become 1/3 of energy capacity is not the ideal pace, considering we might not have two more decades to wait for RE to catch up.

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1. Which of the following words is most similar to the word ‘fair’ with reference to the context of the passage?
   A. Excellent    B. Reasonable
   C. Coloured     D. Diligent
   E. Prejudiced

   Ans. B

2. Which of the following is similar in meaning to Account for?
   A. To form a particular part of something
   B. To consider or regard
   C. Take an opportunity
   D. Doing anything risky
   E. Take control of

   Ans. A

3. Which of the following words can most appropriately fill in the blank, as given in the passage grammatically and contextually?
   It’s fair to state that the growth trajectory is incredible, and considering that it took only a little more than a just decade to reach this position, we could call it ___________. However, the most important question is, is this satisfactory? The goal of green energy transition is to solve growing energy scarcity and reduce dependency on fossil fuels in order to move towards a fully sustainable energy landscape. Therefore, to identify success, we need to compare renewable energy growth with the current scenario.

   A. Phenomenal    B. Affordable
   C. Inadequate    D. Affective
   E. Dismal

   Ans. A

4. What does the author want to convey via this statement;
   “We need to understand that there are very real issues at play here, and choice of green energy transition was not actually a choice for us at the time we made an effort to change.”

   **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.

   5. He looked _______ for his calculator but could not find it.
      A. By    B. Around
      C. On    D. Up
      E. About

   Ans. E
6. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
The admin has taken the steps to ___________ the education system of the state.
A. Revamp      B. Improved
C. Increase     D. Rehearse
E. Deteriorate

**Ans.** A

7. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
This country remains poor despite ___________ rich in natural resources.
A. Very       B. Of it being
C. Have been   D. It well
E. Being

**Ans.** E

8. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
Healthcare & education are one of the most ___________ sectors in the country.
A. Iterative   B. Profiteer
C. Loss        D. Overcharged
E. Cashing

**Ans.** D

9. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
The navy officer was fascinated with ships since childhood and ___________ be a seafarer.
A. Wished to    B. Attempt
C. Frenzy       D. Is trying
E. Wanted

**Ans.** A

10. **Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct.
Choose the option as your answer.
(I)
A. Market research has shown us that
B. The government has
C. Demand has outstripped

(II)
D. Supplied of qualified teachers
E. People are loyal to a brand not prices
F. Reforms are entire tax system

**Ans.** A, E

11. **Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct.
Choose the option as your answer.
(I)
A. The rumours of petrol
B. The body of camera make
C. The threat of war has adversely

(II)
D. Is highly resilient for indoor use
E. Shortage turned out to be false
F. Impacted burns as actively.

**Ans.** A, E

Error Spotting
The questions were based on:
1. The application of subject verb agreement rule.
2. Appropriate usage of Subordinate conjunction: Although, Yet
**REASONING ABILITY**

**Direction (1-3):** Study the following information and answer the given questions carefully.

Point Q is 16m to the south of point P.
Point R is 5m to the west of point Q.
Point T is 25m to the north of point R.
Point V is 10m to the east of point T.
Point J is 9m to the south of point V.

1. In which direction is point V with respect to point Q?
   A. North East  
   B. North West  
   C. East  
   D. South West  
   E. North

   Ans. A

2. If W is to the west of point J and to the north of point R, then what is the distance between point W and point T?
   A. 9m  
   B. 18m  
   C. 15m  
   D. 5m  
   E. None of these

   Ans. A

3. In which direction and at what distance is point P with respect to point J?
   A. 10m towards north  
   B. 10m towards east  
   C. 5m towards east  
   D. 10m towards south  
   E. 5m towards west

   Ans. E

**Direction (4-6):** Study the following information and answer the given questions carefully.

Six people A, M, N, C, O and G are sitting around a triangle in such a way that three of them are sitting at the corners and three of them are sitting in the middle of the sides. Those who are sitting at the corners face inside and those who are sitting in the middle of the sides face outside.

A sits at the corner. M is an immediate neighbour of A. Two people sit between M and C. O sits to the immediate left of C. N is an immediate neighbour of O.

4. What is the position of O with respect to C?
A. Third to the right  
B. Fourth to the left  
C. Immediate left  
D. Second to the right  
E. None of these

   Ans. C

5. How many persons are sitting between A and O?
   A. One  
   B. Two  
   C. Three  
   D. Four  
   E. Five

   Ans. B

6. Who is sitting second to the right of A?
   A. M  
   B. G  
   C. O  
   D. N  
   E. C

   Ans. D

7. How many such pairs of letters are there in the word ‘PERSUADE’, 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. Four  
   E. More than four

   Ans. E

**Direction (8-12):** Study the following information carefully and answer the questions given below:

9 people are sitting in a straight line and some of them are facing north while some of them are facing south. The distance between any two immediate neighbours is the same. All the above information is not necessarily in the same order.

P sits second from one of the extreme ends of the line. R sits third to the right of P. Two people sit between R and S. U sits second to the right of S. Immediate neighbours of S face a direction opposite to that of S. Immediate neighbours of U face opposite directions. T sits second to the right of U. Both U and T face the same direction. W is a neighbour of T. W and T face opposite directions. Persons sitting at extreme ends face opposite directions. Q sits second to the left of V. X does not face south.
8. How many people sit between W and V.
   A. 2       B. 6
   C. 4       D. 5
   E. None of these
   Ans. D

9. Four of the following five are alike in a certain way, find the odd one out.
   A. Q       B. W
   C. P       D. V
   E. R
   Ans. E

10. Who among the following sit at the extreme ends?
    A. VX      B. QS
    C. QX      D. XS
    E. VS
    Ans. A

11. What is the position of T with respect to P.
    A. Third to the right
    B. Immediate left
    C. Fifth to the left
    D. Sixth to the right
    E. Second to the right
    Ans. E

12. Who sits to the immediate right of Q.
    A. T       B. W
    C. U       D. S
    E. X
    Ans. D

Direction (13-17): Study the following information and answer the given questions carefully.

Six boxes A, B, C, D, E and F are kept one above the other. They like different colours viz. Red, Orange, Pink, Blue, Violet and Green but not necessarily in the same order.

Box C is kept immediately above the orange coloured box. Two boxes are kept between the orange coloured box and pink coloured box. Only three boxes are there between the pink coloured box and box E. Box E is not blue in colour.

Red coloured box is kept immediately above the pink coloured box. Box F is violet in colour. Box A is immediately above box B. Box D is orange in colour.

13. How many boxes are there between box A and box C?
    A. One      B. Two
    C. Three     D. Four
    E. None
    Ans. D

14. Which box is kept at the second position from the bottom?
    A. D        B. E
    C. A        D. B
    E. C
    Ans. A

15. Which box is green in colour?
    A. C        B. D
    C. A        D. E
    E. B
    Ans. D

16. Which box is kept immediately above box E?
    A. A        B. F
    C. D        D. B
    E. C
    Ans. C

17. How many boxes are kept above box F?
    A. One      B. Two
    C. Three     D. Four
    E. None of these
    Ans. B

18. In a certain code language, ‘TABLE’ is coded as ‘BUEFM’ and ‘PRAYS’ is coded as ‘SQDTZ’, then how ‘MINOR’ will be coded in the same manner?
    A. JNSQP     B. JQNSP
    C. JNQSP     D. JNSPQ
    E. JNPQS
    Ans. C

Direction (19-22): In each of the following questions, some statements are given and these statements are followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

19. Statements:
    Only a few teachers are males.
    A few males are boys.

    Conclusions:
    I. All teachers being males is a possibility.
    II. All teachers being boys is a possibility.
A. Only conclusion I is true.
B. Only conclusion II is true.
C. Either conclusion I or II is true.
D. Neither conclusion I nor II is true.
E. Both conclusions I and II are true.

Ans. B
Sol.

20. **Statements:**
All cars are toys.
Some toys are lamps.

**Conclusions:**
I. Only a few cars are lamps.
II. Some cars are not toys.
A. Only conclusion I is true.
B. Only conclusion II is true.
C. Either conclusion I or II is true.
D. Neither conclusion I nor II is true.
E. Both conclusions I and II are true.

Ans. D
Sol.

21. **Statements:**
All telegrams are stamps.
All mobiles are telegrams.

**Conclusions:**
I. Only a few telegrams are mobiles.
II. Some stamps are telegrams.
A. Only conclusion I is true.
B. Only conclusion II is true.
C. Either conclusion I or II is true.
D. Neither conclusion I nor II is true.
E. Both conclusions I and II are true.

Ans. B
Sol.