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### Set –A (Aptitude)

- 1) The breadth of rectangular plot is  $\frac{1}{3}$ rd of its length. If the perimeter of the plot is 240meters, what is the length of that plot?  
a) 80M b) 240M c) 160M d) 90M
- 2) The difference between two consecutive even numbers is 2. What is the first of these two numbers?  
a) 20 b) 22 c) 24 d) cannot be definitely said
- 3) Mahesh walks 30 meters towards East. Then he turns to his right and walks 20 meters. Then again turning to his right, he walks 30 meters. How far and in which direction is he from his original position?  
a) 20 meters, North b) 50 meters, South c) 50 meters, West d) 20 meters, South
- 4) What should come in the place of question mark (?) in the following letter-digit series?  
 $\frac{1}{25}$  of  $200 \times 25.5 = ?$   
a) 20.4 b) 204 c) 10.4 d) 104
- 5) The average age of Nutan, Prakash, Gouri and Ramesh is 21years. The average age of Gouri and Ramesh is 18years. what is the average age of Nutan and Prakash?  
a) 24years b) 26years c) 20years d) 22years
- 6) When 24 is added to a number it increases to its  $1\frac{1}{4}$ . What is the number?  
a) 72 b) 48 c) 120 d) 96
- 7) Which of the following will come in place of the question mark (?) in the letter-number series given below? B8Y9 D7W7 F8U8 H7S6 J8Q7?  
a) L7O5 b) K7O5 c) L7M5 d) L7O4
- 8)  $7.009 - 5.9 = ?$   
a) 1.109 b) 108 c) 105 d) 0.109
- 9)  $? / 81 = 1/?$   
a) 81 b)  $\frac{1}{9}$  c) 9 d) 27
- 10) Which letter pattern should come in place of the question mark (?) in the following series of English letters? AB BA ABC CBA ABCD?  
a) BACD b) CABD c) ACBD d) DCBA
- 11) If the price of 5 Dozens of Apples is Rs.285, What will be the Price of 34 Apples?  
a) Rs.161.50 b) Rs.171.00 c) Rs.142.50 d) Rs.171.50
- 12)  $1350 \times 1.5 = ?$   
a) 2025 b) 150 c) 120 d) 1955
- 13) What should come in the place of question mark (?) in the following letter-digit series?  
 $(\frac{12}{60}) = (6/\sqrt{?})$   
a) 600 b) 30 c) 900 d) 60
- 14) From the four words given. Choose the equivalent to "CRUSH"  
a) Subdue b) execute c) grind d) crowded
- 15) From the four words given. Choose the equivalent to "FOSTER".  
a) REAR b) PROMOTING c) BEGIN d) BECOME

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### Set –B (Aptitude)

- 1) What should come in the place of question mark(?) in the following letter-digit series?  $15\%140 = X\%$  of 150  
a) 15 b) 16 c) 14 d) 14.5
- 2) What should come in the place of question mark(?) in the following letter-digit series?  $250/(\text{sqrt } ?) = 10$   
a) 25 b) 2500 c) 625 d) 250
- 3) Bud : Flower :: ? : Fruit  
a) Seed b) Flower c) Taste d) Twig
- 4) The difference between the cost price and sale price of an article is Rs.240. If the profit percent is Rs.20,at what price was the article sold?  
a) Rs.1240 b) Rs.1600 c) Rs.1440 d) Rs.1400
- 5) "play" is related to "ground" in the same way as "pray" is related to ?  
a) Forest b) Worship c) Temple d) Idol
- 6) Choose the word that is most opposite in meaning to the word "DESTROY"  
a) PRODUCE b) INVENT c) MAKE d) CREATE
- 7) T.B. : Lungs :: Cataract : ?  
a) Ear b) Eye c) Skin d) Nose
- 8) Mahesh walks 30 meters towards East. Then he turns to his right and walks 20 meters. Then again turning to his right, he walks 30 meters. How far and in which direction is he from his original position?  
a) 20 meters, North b) 50 meters, South c) 50 meters, West d) 20 meters, South
- 9) If the price of 5 Dozens of Apples is Rs.285, What will be the Price of 34 Apples?  
a) Rs.161.50 b) Rs.171.00 c) Rs.142.50 d) Rs.171.50
- 10) Find the correct alternative.  $336 \ 210 \ 120 \ ? \ 24 \ 60$   
a) 40 b) 50 c) 60 d) 70
- 11) The Percentage profit earned on an article by selling it at Rs. 960 was 20, What was the cost price of the article?  
a) Rs. 600 b) Rs. 900 c) Rs. 840 d) Rs. 800
- 12)  $12 \ ? \ \% \ \text{of } 250 = 37.50$   
a) 25 b) 35 c) 15 d) 5
- 13) Choose the word that is most opposite in meaning to the word "pride"  
a) humility b) humbleness c) Shame d) lowliness
- 14) From the four words given. choose the equivalent to "FOSTER".  
a) REAR b) PROMOTING c) BEGIN d) BECOME
- 15) From the given four words? choose the Equivalent to "REMEDY"  
a) redress b) cure c) restorative d) treatment

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### SET A (Technical)

1. What is Total station?
2. How many types of traverse?
3. How many types of bearing?
4. How many satellites require in observation time?
5. How many types of survey does the DGPS?
6. Why we need the handheld GPS in survey field?
7. Define Levelling. What are the uses of leveling?
8. What do you mean by datum surface?
9. List out the leveling problems?
10. Can we use ETS in Mine Survey?
11. What is a Boundary?
12. The first reading from a level station is?
13. What is the full form of GNSS?
14. What is meant by GPS?
15. How many types of North?

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### SET B (Technical)

16. Least count can study in total station?
17. What is the measurement unit of survey?
18. Why we assume the true North in survey field?
19. What are latitude & longitude?
20. What is the first coordinate and second coordinate?
21. How many types of height?
22. In leveling operation, when the instrument is being shifted, the staff must move or not?
23. During leveling operation, when the staff is being carried forward, the instrument must remain Stationary or not?
24. In leveling operation, if first reading is more than a second, it represents a rise or fall?
25. What is the Standard height of a prism pole?
26. What is the full form of ETS?
27. Cross-staff is used for?
28. Grid lines are parallel to?
29. What are the accessories for ETS?
30. Full form of RDM?

**SET C (Technical)**

1. How many points you need to start of the survey? What are they?
2. How many types of surveying error?
3. What is the maximum height of prism pole?
4. Why we use the static survey?
5. Total numbers of Zones in world?
6. How many Zones in India?
7. What are the different kinds of benchmarks?
8. Write the different types of levels?
9. What are the different type's leveling staffs?
10. What are the fundamentals of surveying?
11. How we calculate height or elevation?
12. What are the Classifications of survey based on the object?
13. What is meant by Benchmark?
14. What are the level booking methods?
15. How many types of bearing?