**PRAGATI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**TRAINING AND PLACEMENT CELL**

TEST:

1. A can complete a work in 12 days. A started the work alone and after 2 days, B joined him to help him complete the work. If the work is completed in 8 days. Then how many days will ‘B’ alone complete the total work?
2. 18 b) 6 c) 10 d) 15
3. A started a work and complete 30% of the work in 10 days. With the help of B. If he completes the remaining work in 15 days. In how many days will B alone complete the total work?
4. 50 b) 60 c) 40 d) 15

3. A goods train leaves a station at a certain time and at a fixed speed. After 6 hours, an express train leaves the same station and moves in the same direction at a uniform speed of 90 km/h. this train catches up the goods train in 4 hours. Find the speed of the goods train.

1. 36 kmph b) 30 kmph c) 20 kmph

d) 26kmph

4. The cost price of 165 items is same as the sale price of N items. If the profit is 32%. Then what is N?

1. 127 b) 124

c) 125 d) 126

5 One morning after sunrise, raju and Siva are standing with their backs towards each other. Raju’s shadow exactly fells towards his left side. Which direction was Siva facing?

1. East b) west c) North d) south

6. The charges of hired car are Rs.10 per km for the first 100 km. Rs. 8 per km for the next 200 km and Rs. 6 per km for any further distance. Sankar hired the car and paid some amount for travelling 1,60 km. if the amount left with Sankar is 1/3rd what he had initially, then how much money did he have with him initially?

1. Rs. 31,200 b) Rs. 15,600 c) Rs.5,200

d) Rs.10,400

7. Three years ago the ratio of Vijay’s age and Bunny’s age was 4:3. Three years hence the ratio of their ages will be 5:4. What is the sum of their present ages?

1. 28 yrs b) 48 yrs c) 50 yrs d) 60 yrs

8. A and B started a business by investing Rs.35000 and Rs.20000, respectively. After 5 months B left the business and C joined the business with a sum of Rs.15000. the profit earned at the end of year is Rs.84125. what is the share of B in profit?

1. 14133 b) 15000 c) 13460

d) Couldn’t be determine e) none

9. a boat takes 9 h to travel a distance upstream and takes 3 h to travel the same distance downstream. If the speed of the boat in still water is 4km/h, then what is the velocity of the stream?

a)4 km/h b) 3 km/h c) 6 km/h d) 2 km/h

10. At what time between 5 o’clock and 6 o’ clock in the morning in the morning, will the both hands of a clock be at right angle?

1. 43 7/11 min past 5 and 1 10/11 min past 6
2. 43 7/11 min past 5 and 10 10/11 min past 5

c) 42 7/11 min past 5 and 11 10/11 min past 5

d) 47 7/11 min past 5 and 1 10/11 min past

e) None of these

11. In the following number series, one of the numbers is wrong. Find out the wrong number.

14, 28, 112, 672, 5374, 53760

1. 28 b) 112 c) 672 d) 5374

12. A + B means A is the son of B.

A-B means A is the daughter of B.

A x B means A is the father of B.

A ÷ B means A is the mother of B.

Which of the following means S is the son-in-law of P?

1. P+Q÷RXS-T b) PXQ÷R-S+T

c) P+QXR-S÷T d) PXQ-R÷SXT

e) None of these

13. A man has a job which requires him to work on Monday,8 straight days and rest on 9th day, if he started work on Monday, find the day of the week on which he gets 12th rest day?

1. Thursday b) Wednesday c) Friday

d) Saturday

14. A bag contains 6 red, 5 white and 4 black balls. If two balls are drawn, what is the probability that none of them are red?

1. 12/35 b) 14/35 c) 6/35 d) 10/15
2. e) 12/15

15. Find Odd one out  3 2 3 6 12 37.5 115.5

(a) 37.5 (b) 3 (c) 6 (d) 2 (e) 12

16. How many different ways the letters of the word ALGEBRA can be arranged in a row ?

1. 2520 b) 1800 c) 200 d) 720 e) 2600

17. Statements: 1.Some actors are singers

2. All the singers are dancers

Conclusions: 1.Some actors are dancers

2. No singer is actor

a) Only conclusion (1) follows

b) Only conclusion (2) follows

c) Either (1) or (2) follows

d) Neither (1) nor (2) follows

e) Both (1) and (2) follows

18. An athlete decides to run the same distance in 1/4th less time that she usually took. By how much percent will she have to increase her average speed?

a) 25% b) 20% c) 33% d) 16.66%

19. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?

a) 20mins b) 30mins c) 27.5 mins d) 15 mins

**Directions 20:** These questions are based on the following data.

B-1, B-2 and B-3 are three buses that travel from Mumbai to Delhi. Each bus starts at a different time and arrives at a different time. The digit in the bus number and the order of their departure or arrival is not the same. The first bus to leave Mumbai is the third bus to reach Delhi.

20Which is the second bus to reach Delhi?

A)B-1 b) B-2 c) B-3 d) B-1 or B-2 e) Cannot

KEY:

1.A

2.B

3.A

4.C

5.D

6.B

7.B

8.E

9.D

10.B

11.D

12.E

13.A

14.A

15.E

16.B

17.A

18.C

19.B

20.B