

1. Two worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:

- A. Rs. 169.50
- B. Rs. 170
- C. Rs. 175.50
- D. Rs. 180

2. In what ratio must water be mixed with milk to gain 25% on selling the mixture at cost price?

- A. 1:2
- B. 2:1
- C. 1:4
- D. 4:1

3. A garrison of 500 men had provisions for 27 days. After 3 days a reinforcement of 300 men arrived. For how many more days will the remaining food last now.

- A. 15
- B. 16
- C. $17 \frac{1}{2}$
- D. 18

4. A rectangular lawn 55 by 35 has two roads each four meters wide running in the middle of it, one parallel to the length and the other parallel to breadth. The cost of gravelling the roads at 75 paise per square metre is

- A. 254.50
- B. 258
- C. 262.50
- D. 270

5. Ravi is travelling on his cycle and has calculated to reach point A at 2:00 p.m. if he travels at 10 kilometres per hour. He will reach there at 12 noon if he travels at 15 kilometres per hour. At what speed must he travel to reach A at 1:00 p.m.

- A. 8kmph
- B. 11kmph
- C. 12kmph
- D. 14kmph

6. Two pipes A and B can fill a cistern in 12 minutes and 15 minutes respectively while a third pipe C can empty the full tank in 6 minutes. A and B are kept open for 5 minutes beginning and then C is also opened. In what time is the cistern emptied?

- A. 30mins
- B. 33mins
- C. $37 \frac{1}{2}$ mins
- D. 45mins

7. A does $\frac{4}{5}$ of the work in 20 days. He then calls in B and they together finish the remaining work in 3 days. How long B alone would take to do the whole work?

- A. 23days
- B. 37days
- C. $37 \frac{1}{2}$ days
- D. 40 Days

8. $192^{3648} + 748^{177} + 197^{196}$

A. 8. B. 7. C. 5. D. 3

9. Five workers can complete a work in 8 hours. Assuming that every worker works with same efficiency. They started working at 10:00 a.m. if after 4:00 p.m. one worker is removed every hour. What is the time when they finish the work.

A. 6:00 p.m. B. 4:00 p.m. C. 8:00 p.m. D. None of these

10. What is the angle made by the hour hand and the minute hand at 5:10

A. 90degrees. B. 95 degrees. C. 85degrees. D. 265degrees

11. The last day of a century cannot be.

A. Monday. B. Wednesday. C. Friday. D. Tuesday. E. Cannot be determined

12. A physical education teacher was arranging the students in class to perform drill. When she arranged two students in a row, one student was left alone. When she arranged 3 students in a row again one student was left alone, when she arranged four students in a row again one student was left alone but when 5 students were arranged in a row, no students were left alone. What is the minimum number of students in the class.

A. 24. B. 25. C. 20. D. 120

13. Ankita starting a business with rupees 51000 and after 5 months Suraj join the business investing rs. 65000 and Ankita withdraws rupees 6000 out of her capital. At the end of the year, in what ratio should be the profits be shared between them

A. 14:91. B. 114:91. C. 42:93. D. None of these

14. If the price of petrol increases by 25% and Raj intends to spend only an additional 15% on petrol, by how much will he reduce the quantity of petrol purchased?

A. 10%. B. 12%. C. 6%. D. 8%

15. Statements : some fans are coolers.

Some coolers are machines

some machines are computers

all computers are televisions

Conclusions:

some televisions are machines

some machines are fans

No machine is a fan

- A. None follows
- B. Only I follows
- C. Only either II or III follows
- D. Only I and either II or III follows
- E. All follow

16. Statements :

No bangle is an earring

Some earrings are rings

Conclusions:

- I. No ring is a bangle
- II. Some rings are definitely not earrings
- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If either I or II follows
- D. If neither I nor II follows
- E. If both I and II follows

17. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

- A) 2: 3 B) 3:2 C) 1:3 D) 3:1

18. 12 divides, $ab313ab$ (in decimal notation, where a, b are digits > 0 , the smallest value of $a+b$ is

- A. 7. B. 4. C. 2. D. 6

Study the following information carefully and answer the questions given below:

- (i) ' $P + Q$ ' means 'P is father of Q'
- (ii) ' $P - Q$ ' means 'P is mother of Q'
- (iii) ' $P \times Q$ ' means 'P is brother of Q'
- (iv) ' $P \div Q$ ' means 'P is sister of Q'

19. Which of the following means A is the grandfather of F.

- A. $B+J -F+A$
- B. $A\div B-J+F$
- C. $B\times A\times T-F$
- D. $A-B\times T+F$
- E. None of these

20. How is D related to C in the expression $S+G\times D\div R\times B-C$

- A. Son
- B. Daughter
- C. Son or daughter
- D. Aunt
- E. Sister