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Question 1. 252 can be expressed as a product of primes as:

A. $2 \times 2 \times 3 \times 3 \times 7$

B. $2 \times 2 \times 2 \times 3 \times 7$

C. $3 \times 3 \times 3 \times 3 \times 7$

D. $2 \times 3 \times 3 \times 3 \times 7$

Answer: A

Question 2. If a and b are positive integers and $(a-b)/3.5 = 4/7$, then

A. $b < a$

B. $b > a$

C. $b = a$

D. $b \geq a$

Answer: A

Question 3. There is a merry-go-round race going on. One person says, "1/3 of those in front of me and 3/4 of those behind me, give the total number of children in the race". Then the number of children took part in the race?

A. 12

B. 11

C. 13

D. 14

Answer: C

Question 4. Find the value of X, Y and Z in the following

X X X X

Y Y Y Y

Z Z Z Z

.....

Y X X X Z

A. $X=9$, $Y=2$; $Z=8$

B. $X=9$, $Y=1$; $Z=9$

C. $X=8$, $Y=1$; $Z=8$

D. $X=9$, $Y=1$; $Z=8$

Answer: D

Question 5. The smallest number which when diminished by 7, is divisible 12, 16, 18, 21 and 28 is:

A. 1008

B. 1015

C. 1022

D. 1032

Answer: B

Question 6. The ratio of two numbers is 3 : 4 and their H.C.F. is 4. Their L.C.M. is

A. 12

B. 16

C. 24

D. 48

Answer: D

Question 7. A student got twice as many sums wrong as he got right. If he attempted 48 sums in all, how many did he solve correctly ?

A. 12

B. 16

C. 18

D. 24

Answer: B

Question 8. 21, 9, 21, 11, 21, 13, 21,

A. 14

B. 15

C.21

D.23

Answer: B

Question 9. Two trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is

A.2 : 3

B.4 : 3

C.6 : 7

D.9 : 16

Answer: B

Question 10. A sum of money amounts to Rs. 9800 after 5 years and Rs. 12005 after 8 years at the same rate of simple interest. The rate of interest per annum is

A.5%

B.8%

C.12%

D.18%

Answer: C

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Question 11. A man starts walking at 3 pm . he walks at a speed of 4 km/hr on level ground and at a speed of 3 km/hr on uphill , 6 km/hr downhill and then 4 km/hr on level ground to reach home at 9 pm. What is the distance covered on one way?

A.12 km

B.23 km

C.45 km

D.65 km

Answer: A

Question 12. In a group of cows and hens, the number of legs are 14 more than twice the number of heads. The number of cows is

A.5

B.7

C.10

D.12

Answer: B

Question 13. I have a few sweets to be distributed. If I keep 2, 3 or 4 in a pack, I am left with one sweet. If I keep 5 in a pack, I am left with none. What is the minimum number of sweets I have to pack and distribute ?

A.25

B.37

C.54

D.65

Answer: A

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Question 14. 2 trains starting at the same time from 2 stations 200km apart and going in opposite direction cross each other at a distance of 110km from one of the stations.what is the ratio of their speeds ?

A.11:9

B.11:8

C.10:9

D.10:90

Answer: A

Question 15. Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?

A.Rs. 4, Rs. 23

B.Rs. 13, Rs. 17

C.Rs. 15, Rs. 14

D.Rs. 17, Rs. 13

Answer: B

Question 16. If $9x-3y=12$ and $3x-5y=7$ then $6x-2y = ?$

A.-5

B.4

C.2

D.8

Answer: D

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Question 17. The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago ?

A.71 years

B.72 years

C.74 years

D.77 years

Answer: A

Question 18. A man took loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Rs. 5400 interest only for the period. The principal amount borrowed by him was.

A.Rs. 2000

B.Rs. 10,000

C.Rs. 15,000

D.Rs. 20,000

Answer: C

Question 19. The total age of A & B is 12 years more than the total age of B & C. C is how many year younger than A.

A.C is 12 years younger than A

B.C is 11 years younger than A

C.C is 18 years younger than A

D.C is 22 years younger than A

Answer: A

Question 20.If a boat is moving in upstream with velocity of 14 km/hr and goes downstream with a velocity of 40 km/hr, then what is the speed of the stream ?

(a) 13 km/hr

(b) 26 km/hr

(c) 34 km/hr

(d) none of these

Answer: A

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TECHNICAL QUESTIONS

Question 1. Can you explain the term “resource acquisition is initialization?”

Question 2. What is a “pure virtual” member function?

Question 3. What is the difference between public, private, and protected inheritance?

Question 4. What is virtual inheritance?

Question 5. What is placement new?

Question 6. What is the difference between operator new and the new operator?

Question 7. What is exception handling?

Question 8. Explain what happens when an exception is thrown in C++.

Question 9. What happens if an exception is not caught?

Question 10. What happens if an exception is thrown from an object’s constructor?