

EXAM GENIUS QUANTITATIVE APTITUDE

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1. A glass jar contains 48 litres of alcohol and x litres of water. If a new mixture containing $2x$ litres of alcohol and $3x$ litre water is added to the glass jar, then final quantity of this mixture becomes 60 litre.

What was the quantity of alcohol in the final mixture? (in litres)

A. 54

B. 48

C. 52

D. 45

E. 42

2. The average salary of the entire employees in a factory is ₹2800 per month. The average salary of managers is ₹5800 and that of leaders is ₹1800. If the number of managser is 4, then find the number of leaders in the factory.

A. 18

B. 12

C. 5

D. 7

E. None of these

3. Rohit is 6 years older than his wife Vandana. The present age of their daughter Aashvi is $\frac{1}{3}$ of Vandana's present age. If the sum of the present ages of Rohit and Aashvi is 54 years, then what was Vandana's age when Aashvi was born?(in years)

A. 32

B. 28

C. 24

D. 36

E. 30



QUANTITATIVE APTITUDE FOR ALL COMPITATIVE EXAM

4. Tanmay walks at a speed of 8kmph and he runs at a speed of 10kmph. How much time will he require to cover a distance of 36km, if he covers first 16km of his journey walking and the rest of his journey running?
- A. 4 hours
B. 2.5 hours
C. 3 hours
D. 6 hours
E. 5 hours
5. Gulnaaz alone can do a work in 15 days. Junaid's efficiency is 25% lesser than that of Gulnaaz. If Javed and Junaid together can do the same work in 12 days, then find the efficiency ratio of Javed to that of Gulnaaz.
- A. 1:2
B. 4:3
C. 2:1
D. 1:5
E. None of these
6. Sita and Gita working alone can do a piece of work in 20 days and 15 days respectively. They started working together but Gita left after some time and Sita finished the remaining work in 6 days. Find after how many days from start did Gita leave the work?
- A. 5 days
B. 4 days
C. 6 days
D. 3 days
E. 7 days
7. A shopkeeper sells a certain kg of rice at profit of 8%. If he had bought it at 5% less and sold it for ₹120 more he would have made a profit of 15%. Find the initial cost price of the rice. (in ₹)



- A. 7915
- B. 6705
- C. 9600
- D. 8206
- E. 5660

8. The ratio of the speed of a boat upstream to the speed of the boat downstream is 3:8. What is the speed of the boat in still water if it covers 64km downstream in 1 hour 20 minutes ? (in kmph)

- A. 23
- B. 42
- C. 33
- D. 65
- E. 36

9. Raman and Aman both started a small business with investments of ₹2000 and ₹3500 respectively. At the end of a few months from the start of the business, Raman withdrew from the business completely. If the annual profit was divided between Raman and Aman in the ratio of 1:3, then after how many months from the start of the business did Raman leave the business? A. 2 months

- B. 7 months
- C. 3 months
- D. 5 months
- E. None of these

10. The present average age of three friends Ritika, Sweety, and Arohi is 22 years. Three years ago, the average age of Sweety and Arohi was 18 years. Find Ritika's age 9 years hence.

- A. 24 years
- B. 27 years
- C. 30 years
- D. 33 years



E. 36 years

11. Train X crosses a pole in 40 seconds and another Train Z crosses it in 50 seconds. The length of Train X is $\frac{1}{3}$ of the length of Train Z. What is the ratio of the speed of Train X to that of Train Z?

A. 5:12

B. 5:3

C. 7:4

D. 13:7

E. 11:5

12. Ankur purchased an Air Conditioner of marked price ₹17600, on which a retailer allowed a discount of 5%. Later on Ankur spent ₹280 on its transportation and ₹1000 on its installation. At what price should Ankur sell the Air Conditioner so as to earn an overall profit of 20%? A. ₹21600

B. ₹23863

C. ₹23600

D. ₹23836 E.

₹23636

13. Kapil starts working on a job and works on it for 18 days and completes 60% of the work. To help him complete the work, he employs a helper named Chandu and together they work for another 10 days and the work gets completed. Kapi; is what per cent more efficient than Chandu?

A. 300%

B. 150%

C. 250%

D. 400%

E. None of these

14. A bag contains 5 red and 4 green balls. If two balls are drawn at random, find the probability that both are of different colours.



- A. $\frac{5}{2}$
- B. $\frac{5}{3}$
- C. $\frac{5}{6}$
- D. $\frac{1}{3}$
- E. $\frac{5}{9}$

15. The ratio of the ages of the Rahul and Anjali was 9: 8 when their daughter was born. The ratio of the ages of the Rahul and Anjali will be 17: 16 when the daughter will be twice her present age. What is the ratio of the present age of Rahul to that of Anjali?

- A. 15:14
- B. 16:15
- C. 13:12
- D. 10:9
- E. None of these

16. A jar contains 'x' litres of mixture of alcohol and water. The ratio of alcohol to water in the vessel is 9:4. If 20% of the mixture is taken out and this action is repeated once more, the remaining quantity of alcohol in the mixture will be 28.8 litres. What is the numerical value of 'x'?

- A. 67 litres
- B. 68 litres
- C. 65 litres
- D. 70 litres
- E. None of these

17. The difference between 55% of a number and 25% of the same number is 11. Find 67% of that number?

- A. 29.87
- B. 24
- C. 42.98
- D. 24.79



E. None of these

18. The average weight of 3 boys-X, Y and Z is 84 kg. Another boy W joins the group and the average now becomes 80 kg. If another boy V, whose weight is 3 kg more than that of W, replaces X, then the average weight of Y, Z, W and V becomes 79 kg. What is the weight of X?

A. 72 kg

B. 75 kg

C. 54 kg

D. 65 kg

E. 92 kg

19. There are 3 filling pipes and 2 emptying pipes capable of filling and emptying the tank in 9 minutes each and 12 minutes each respectively. If all the pipes are opened together they fill 6 litres of water per minute. Find the capacity of the tank?

A. 32 litres

B. 28 litres

C. 40 litres

D. 36 litres

E. None of these

20. The profit on selling 12 apples is equal to the selling price of 5 bananas. The loss on selling 12 bananas is equal to the selling price of 6 apples. Also, profit percentage is equal to the loss percentage and the cost of an apple is one-third of the cost of a banana. What is the ratio of the selling price of apple to the selling price of banana?

A. 4:3

B. 3:2

C. 5:2

D. 7:5

E. None of these



(21) $\sqrt{676} + \sqrt[3]{10648} = ? + 6.66\% \text{ of } 210$

- (a) 27
- (b) 34
- (c) 29
- (d) 26
- (e) None of these

(22) $22\% \text{ of } 250 + 45\% \text{ of } 360 = ? - 24\% \text{ of } 500$

- (a) 349
- (b) 441
- (c) 442
- (d) 337
- (e) None of these

(23) $65\% \text{ of } 520 + \sqrt{5476} = ? + \sqrt[3]{175616}$

- (a) 356
- (b) 524
- (c) 486
- (d) 628
- (e) None of these

(24) $5025 \div 25 + \sqrt{4225} \times 12 = ? - 22 \times 24$

- (a) 1322
- (b) 1167
- (c) 1073
- (d) 1509
- (e) None of these

(25) $18^2 \div 3 + 7350 \div 14 = ? - 648 \div 3^3$



- (a) 657
- (b) 407
- (c) 507
- (d) 527
- (e) None of these

(26) I. $x^2 - 8x + 16 = 0$

II. $y^2 + 6y + 9 = 0$

- (a) $x > y$
- (b) $x < y$
- (c) $x = y$ or the relationship cannot be established
- (d) $x \geq y$
- (e) $x \leq y$

(27) I. $28x^2 - 53x + 24 = 0$

II. $3y^2 - 13y + 10 = 0$

- (a) $x > y$
- (b) $x < y$
- (c) $x = y$ or the relationship cannot be established
- (d) $x \geq y$
- (e) $x \leq y$

(28) I. $6x^2 - x - 57 = 0$

II. $8y^2 + 18y + 7 = 0$

- (a) $x > y$
- (b) $x < y$
- (c) $x = y$ or the relationship cannot be established
- (d) $x \geq y$



(e) $x \leq y$

(29) I. $x^2 - 17x + 72 = 0$

II. $y^2 + 18y - 144 = 0$

(a) $x > y$

(b) $x < y$

(c) $x = y$ or the relationship cannot be established

(d) $x \geq y$

(30) I. $x^2 - 13x + 42 = 0$

II. $3y^2 - 22y + 7 = 0$

(a) $x > y$

(b) $x < y$

(c) $x = y$ or the relationship cannot be established

(d) $x \geq y$

(e) $x \leq y$

(31). 77, 101, 131, 164, 201, 242

(a) 201

(b) 164

(c) 101

(d) 77

(e) None of these

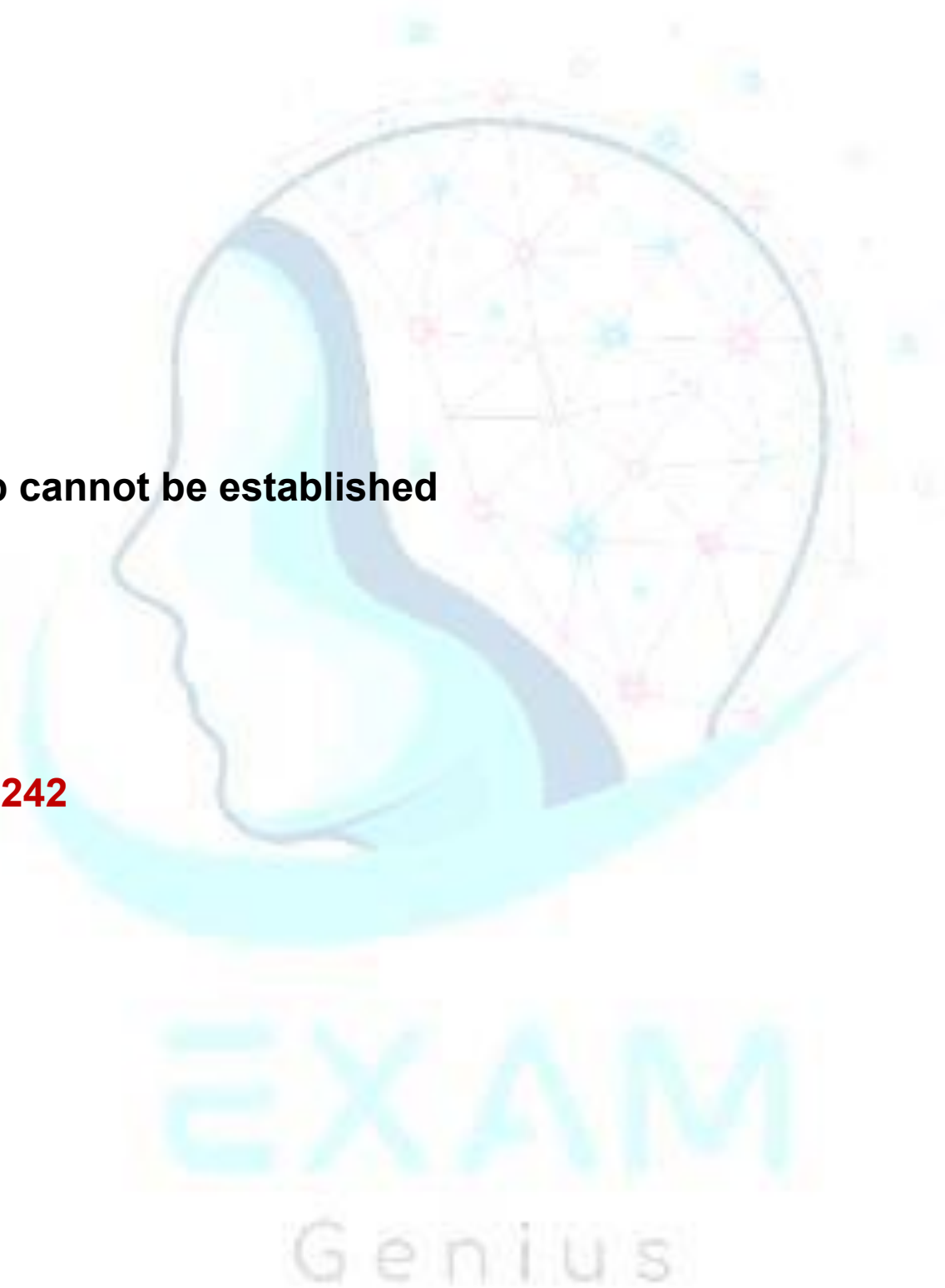
(32). 11, -110, -406, -562, -886, -1286

(a) -1286

(b) 11

(c) -406

(d) -886



(e) None of these

(33). **23625, 7875, 1475, 525, 105, 35**

(a) 25

(b) 525

(c) 1475

(d) 7875

(e) None of these

(34). **878.5, 738.5, 638.5, 548.5, 478.5, 428.5**

(a) 878.5

(b) 428.5

(c) 548.5

(d) 738.5

(e) None of these

(35). **7, 3.5, 4.25, 13.125, 45.9375, 206.71875**

(a) 45.9375

(b) 7

(c) 3.5

(d) 4.25

(e) None of these 36). **7735, 7411, 7122, 6866, ?**

a) 6641

b) 6656

c) 6651

d) 6631

e). None of these 37) **4735, 4625,**

4505, 4375, ?



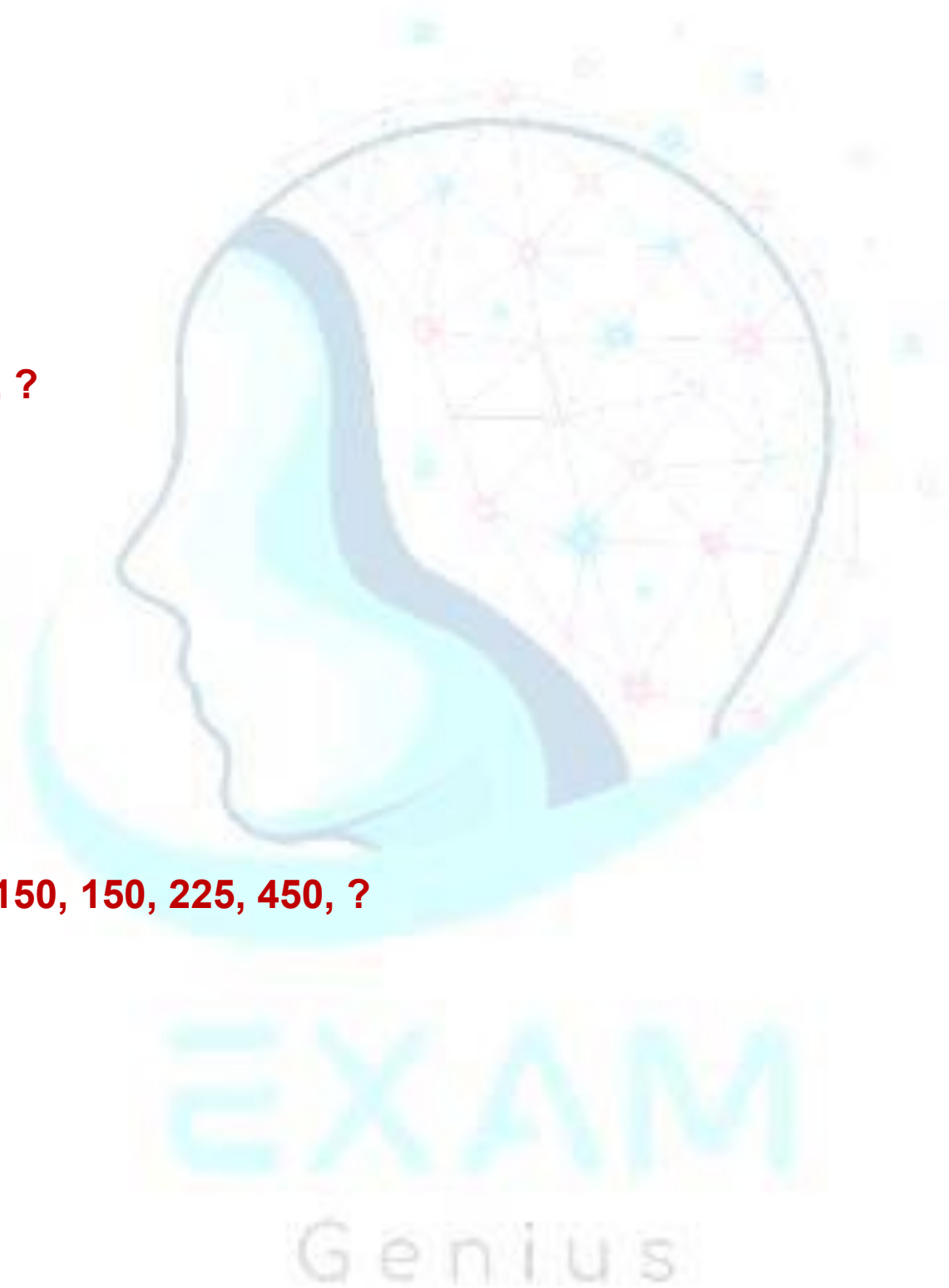
- a) 4256
- b) 4232
- c) 4235
- d) 4255
- e) None of these 38). **350, 520, ?, 1010, 1342**

- a) 789
- b) 738
- c) 748
- d) 758
- e) None of these

39). **222, 282, 352, 432, 522, ?**

- a) 722
- b) 922
- c) 625
- d) 622
- e) None of these 40). **300, 150, 150, 225, 450, ?**

- a) 1156
- b) 1165
- c) 1152
- d) 1125
- e) None of these



Answer key

(1). C



- (2). B
- (3). C
- (4). A
- (5). A
- (6). C
- (7). C
- (8). C
- (9). D
- (10).D
- (11).A
- (12).A
- (13).D
- (14).E
- (15).C
- (16).C
- (17).D
- (18).B
- (19).D
- (20).C
- (21) B
- (22) D
- (23) A
- (24) D
- (25) A
- (26) a
- (27) c
- (28) c



(29) a

(30) c

(31) c

(32) c

(33) c

(34) d

(35) d

(36) a

(37) c

(38) b

(39) d

(40) d

