

## FMN GRADUATE TRAINEE PAST QUESTIONS AND ANSWERS

1. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is (1 Point)

- A. 15
- B. 16 ans
- C. 18
- D. 25

2. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

(1 Point)

- A. 30%
- B. 16%
- C. 18%.
- D. 70% ANS
- E. 5%

3. A sum of money at simple interest amounts to N815 in 3 years and to N854 in 4 years. The sum is: (1 Point)

- A. N 650
- B. N 690
- C. N 698 ans
- D. N 700

4. Abel took a loan of N1200 with simple interest for as many years as the rate of interest. If he paid N432 as interest at the end of the loan period, what was the rate of interest? (1 Point)

- A. 3.6
- B. 6 ans?
- C. 25
- D. Cannot be determined

5. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6 years and that for 9 years?(1 Point)

- A. 1:03
- B. 1:04
- C. 2:03 ans?
- D. Data inadequate

6. A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75km away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is (1 Point)

- A. 100 kmph
- B. 110 kmph
- C. 120 kmph and?
- D. 130 kmph

7.  $112 \times 625 = ?$  (1 Point)

- A. 67000

B. 70000

C. 76500

D. 77200

8. A can do a work in 15 days and 'B' in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is : (1 Point)

A.  $\frac{1}{4}$

B.  $\frac{1}{10}$

C.  $\frac{1}{14}$ . Ans  $\frac{8}{15}$

D.  $\frac{1}{15}$

9. 'A' alone can do a piece of work in 6 days and 'B' alone in 8 days. 'A' and 'B' undertook to do it for N3200. With the help of 'C', they completed the work in 3 days. How much is will be paid to 'C'? (1 Point)

A. N 375

B. N 400 and  $\frac{2}{3}$

C. N 600

D. N 800

10. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child? (1 Point)

A. 4 years and  $\frac{2}{3}$

B. 8 years

C. 10 years

D. None of the above

11. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is (1 Point)

- A. 9
- B. 11
- C. 13
- D. 15 and ?

12. "In its annual report released today, Company Y indicates that all of its manufacturing plants plan to begin converting the raw material of its product from Material A, which is rapidly becoming scarce, to a new synthetic Material B currently under development in its laboratories. Implementation of this plan will almost absolutely increase the company's cost, since even if Material B is practical for use, it can be expected to cost considerably more than Material A.

Which of the following, if true, casts the most doubt on the argument above? (1 Point)

- A. Whatever increased expenses accrue from the development and use of Material B can and will be passed on to consumers of Company Y's product.
- B. Company Y's manufacturing plants can convert from Material A to Material B at little or no expense.
- C. In time, the raw materials used to produce Material B will become as scarce as Material A.
- D. Long-needed conservation procedures will become practical when Material B is introduced and will compensate for the higher cost of Material B

13. "A house sold for \$500,000 in 1990 and sold ten years later for \$400,000. By what percent did the value of the house change? (1 Point)

- A. 20 %

- B. 0 %
- C. -10%
- D. -20%

14. "It was once believed that women are born with all the eggs they'll ever have. In a study published in Nature Medicine, Jonathan Tilly, professor of obstetrics, gynecology, and reproductive biology found that stem cells taken from a women's ovaries can be used to create new eggs or oocytes, a potentially groundbreaking discovery for fertility treatments.

Using donated frozen ovaries from doctors in Japan who treat women seeking gender reassignment, Tilly's team isolated egg-producing stem cells in human ovaries using new cell-sorting techniques to coax them into developing oocytes. Building on research by Chinese scientists, they then fished out a protein believed to sit on the surface of only those stem cells and tracked them by inserting a gene into the cells which caused them to glow green. If the cells produced eggs, the eggs would also glow green. The cells were then injected into biopsied human ovarian tissue that was then grafted beneath the skin of mice. Within 7 to 14 days, the graft had produced a budding of oocytes, with some of the eggs glowing with the fluorescent tag, proving that they came from the stem cells. But others did not, which suggested they were already present in the human tissue before the injection.

"The discovery opens the door for development of unprecedented technologies to overcome infertility in women. If the process can be guided correctly, there is a chance that sometime in the future, we might get to the point of actually having an unlimited source of human eggs, which would rewrite human-assisted reproduction", Tilly said in a press release.

The primary purpose of the passage is to " (1 Point)

- A. evaluate a research study
- B. summarize the history of a research area

C. report new research findings

D. reinterpret old research findings

15. A group of 5 investment bankers and 5 clients recently frequented the Fine Tiger Indian Restaurant. The total bill for the meal, including 20% gratuity, came to \$960. On average, how much did the meal of each individual cost before gratuity? (1 Point)

A. \$160

B. \$96

C. \$90

D. \$80 and

16. Peter's bank account has  $p$  dollars. John's bank account has 5 times what Peter's bank account has and  $\frac{1}{3}$  what Fred's bank account has. How much more is in Fred's bank account than is in Peter's bank account, in terms of  $p$ ? (1 Point)

A.  $15p$

B.  $14p$  ans

C.  $4p$

D.  $3p$

17. "A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting? " (1 Point)

A. Between B and D

B. Between B and C ans

C. Between E and D

D. Between C and E

18. There are 8 houses in a line and in each house only one boy lives with the conditions as given below:

- A. Jack is not the neighbour Siman.
- B. Harry is just next to the left of Larry.
- C. There is at least one to the left of Larry.
- D. Paul lives in one of the two houses in the middle.
- E. Mike lives in between Paul and Larry.

19. If at least one lives to the right of Robert and Harry is not between Taud and Larry, then which one of the following statement is not correct? (1 Point)

- A. Robert is at the left end
- B. Robert is not at the left end
- C. Taud is in between Paul and Jack. Ans
- D. There are three persons to the right of Paul

20. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place? (1 Point)

- A. West
- B. South
- C. North-East
- D. South-East

21. Two of your team members are having a disagreement over which technical solution to use. What's the first thing that you should do in this situation? (1 Point)

- A. Do nothing
- B. Tell the team members to work out the problem themselves
- C. Ask the team members to write up a change request
- D. Meet with the team members and figure out what's causing the disagreement ans?

22. Flour for bread-making in Nigeria is typically made from... (1 Point)

- A. Rice
- B. Wheat
- C. Maize
- D. Cassava?

23. "What is the value of the integer  $p$ ?"

(1)  $p$  is a prime number.

(2)  $88 > p > 95$  (1 Point)

- A. " if statement (1) by itself is sufficient to answer the question, but statement (2) by itself is not;
- B. if statement (2) by itself is sufficient to answer the question, but statement (1) by itself is not;
- C. if statements (1) and (2) taken together are sufficient to answer the question, even though neither statement by itself is sufficient
- D. if either statement by itself is sufficient to answer the question;

24. "If  $y > 0$ , is  $x$  less than 0?"

(1)  $xy = 16$

(2)  $x - y = 6$ " (1 Point)



- A. " if statement (1) by itself is sufficient to answer the question, but statement (2) by itself is not;
- B. if statement (2) by itself is sufficient to answer the question, but statement (1) by itself is not;
- C. if statements (1) and (2) taken together are sufficient to answer the question, even though neither statement by itself is sufficient
- D. if either statement by itself is sufficient to answer the question;

25. "What is the value of x?"

(1)  $x^2 - 9 = 16$

(2)  $3x(x - 5) = 0$  (1 Point)

- A. " if statement (1) by itself is sufficient to answer the question, but statement (2) by itself is not;
- B. if statement (2) by itself is sufficient to answer the question, but statement (1) by itself is not;
- C. if statements (1) and (2) taken together are sufficient to answer the question, even though neither statement by itself is sufficient
- D. if either statement by itself is sufficient to answer the question; and

26. "Questions 30 to 33 consist of sentences that may contain some errors. Select the answer choice that represents the best revision the sentence. Choice A duplicates the original version. If the original seems better than any of the revisions, then choose it.

States now have an incentive to lower the blood alcohol level that constitutes drunk driving by a federal law that withholds highway funds from those states that don't enforce the applicable standard."

(1 Point)

- A. that constitutes drunk driving by a federal law that withholds
- B. that constitutes drunk driving, because a federal law withholds and
- C. that constitutes drunk driving, because a federal law withholds
- D. which constitutes drunk driving by a federal law that withholds

27. Unlike other primates, which are born with fully formed craniums, a newborn human baby's cranium consists of eight bones that take years to fuse together fully, allowing the brain to grow much larger during those early years. (1 Point)

- A. fully formed craniums, a newborn human baby's cranium
- B. fully formed craniums, a newborn human babies have craniums that
- C. fully formed cranium, a human baby's cranium
- D. fully formed cranium, the cranium of a newborn human baby

28. Because women buy approximately 80 percent of ties sold in the United States, they are often displayed near perfume or women's clothing departments. (1 Point)

- A. they are often displayed
- B. ties are often being displayed
- C. the displaying of ties is often
- D. ties are often displayed ans

29. With a boiling temperature of -195.8 degrees Celsius, nitrogen composes approximately 78 percent of the volume of the atmosphere. (1 Point)

- A. nitrogen composes approximately 78 percent of the volume of the atmosphere ans
- B. nitrogen is composing the volume of 78 percent of the atmosphere

C. "the atmosphere is approximately 78 percent nitrogen, as measured by volume

D. nitrogen is composed of 78 percent of the atmosphere's volume

30. "Kurt is a student of Spanish. All students study either Latin or English, but some students of English do not study Latin because they do not think it is a useful thing to know. Students of Spanish never study English. Therefore, Kurt must think Latin is a useful thing to know.

Which of the following must be true for the conclusion above to be logically correct?" (1 Point)

A. Spanish is more useful than English.

B. All students who think Latin is useful study it.

C. All students of Latin think it is a useful thing to know. Cans ?

D. Latin is more useful than Spanish

32. "Sabrine earns more than Pedro. Sabine earns the same as Maria.

Antonio earns less than Maria. Valeria earns less than Sabine.

Pedro earns less than Valeria.

Who earns the least money?"

(1 Point)

A. Sabrine

B. Valeria

C. Antonio

D. Pedro ans?

33. "Richard paid more for his house than did Robert.

Robert paid less for his house than did John.

Derek paid more for his house than did Sarah.

Sarah paid the same amount for her house as did John.

If the above information is true, which of the following must also be true?" (1 Point)

- A. Richard paid more for his house than did Derek.
- B. Derek paid more for his house than did Robert.ans
- C. Richard paid more for his house than did John.
- D. Sarah paid less for her house than did Richard

34. "What percentage of all the marbles in the bag were black?

Statement 1 - The ratio of black to white marbles in the bag was 20 : 1.

Statement 2 - There were 5 white marbles in the bag.

Which of the statements above make it possible to answer the question." (1 Point)

- A. Statement 1 alone is sufficient, but statement 2 alone is not sufficient.
- B. Statement 2 alone is sufficient, but statement 1 alone is not sufficient
- C. Both statements together are sufficient, but neither statement alone is sufficient
- D. Statements 1 and 2 together are not sufficient.ans

35. "The increase in the number of newspaper articles exposed as fabrications serves to bolster the contention that publishers are more interested in boosting circulation than in printing the truth. Even minor publications have staffs to check such obvious fraud.

The argument above assumes that; " (1 Point)

- A. Newspaper stories exposed as fabrications are a recent phenomenon.
- B. Everything a newspaper prints must be factually verifiable.
- C. Fact checking is more comprehensive for minor publications than for major ones
- D. Only recently have newspapers admitted to publishing intentionally fraudulent stories.
- E. The publishers of newspaper prints what they want ans?

36. "Some men are definitely intelligent, others are definitely not intelligent, but of intermediate men, we should say, 'intelligent'? Yes, I think, so or no, I shouldn't be inclined to call him intelligent."

Which of the following reflects the intention of the writer well?" (1 Point)

- A. To call men intelligent who are not strikingly so must be to use the concept with undue imprecision ans,
- B. Every empirical concept has a degree of vagueness
- C. Calling someone intelligent or not depends upon one's whim
- D. There is no need to be as indecisive as the writer of the above

37. Many business offices are located in buildings having 2-8 floors. If a building has more than 3 floors, it has a lift. If the above statements are true, which of the following must be true? (1 Point)

- A. 2nd floors do not have lifts
- B. 7th floors have lifts ans?
- C. Only floors above the 3rd floors have lifts
- D. All floors may be reached by lifts

38. Choose the word different from the rest (1 Point)

A. Chicken and Snake

B. Snake

C. Swine

D. Crocodile

39. Choose the word different from the rest (1 Point)

A. Cap

B. Turban

C. Helmet

D. Veil and Scarf

40. Choose the word different from the rest (1 Point)

A. Kiwi

B. Eagle and Owl

C. Emu

D. Ostrich

41. Choose the word different from the rest (1 Point)

A. Curd

B. Butter

C. Oil and Ghee

D. Cheese

42. Choose the word different from the rest (1 Point)

A. Tall

- B. Huge
- C. Thin
- D. Sharp and

43. A father is three times as old as his son. After fifteen years the father will be twice as old as his son's age at that time. Hence the father's present age is (1 Point)

- A. 36
- B. 42
- C. 45 anS
- D. 48

44. A machine painting a room at a constant rate takes 6 hours to paint  $\frac{5}{12}$  of the room. How much more time will it take to finish painting the room? (1 Point)

- A. 8 hours 10 minutes
- B. 8 hours 24 minutes and
- C. 8 hours 30 minutes
- D. 8 hours 36 minutes

45. A box contains  $b$  blue balls and  $r$  red balls. If 4 blue balls and 3 red balls are added to the box, and if one ball is obtained at random from the box, then the probability that a blue ball is obtained can be represented by (1 Point)

- A.  $b/r$
- B.  $b/(b+r)$
- C.  $(b+4)/(b+r+4)$
- D.  $(b+4)/(b+r+7)$

46. By walking at  $\frac{3}{4}$ th of his usual speed, a man reaches office 20 minutes later than usual. What is his usual time? (1 Point)

- A. 30 minutes
- B. 60 minutes and  $\frac{1}{2}$
- C. 70 minutes
- D. 50 minutes

47. Uche had to do a multiplication. Instead of taking 35 as one of the multipliers, she took 53. As a result, the product went up by 540. What is the new product? (1 Point)

- A. 1050
- B. 540
- C. 1440
- D. 1590

49. "A can complete a project in 20 days and B can complete the same project in 30 days. If A and B start working on the project together and A quits 10 days before the project is completed, in how many days will the project be completed?

- A. (1 Point)
- B. 18 days
- C. 27 days
- D. 26.67 days
- E. 16 days

50. "People should be held accountable for their own actions. However, no person should be held accountable for actions over which they have no control.



Which of the following is the most logical conclusion of the argument above? (1 Point)

- A. People should not be held accountable for the actions of other people.
- B. People have control over their own actions
- C. People cannot control the actions of other people.
- D. Actions that cannot be controlled should not be punished.