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PUNJAB NATIONAL BANK SPECIALIST
OFFICERS EXAM 2011- QUANTITATIVE
APTITUDE QUESTION PAPER

Directions—(Q. 1-4) What will come in place of the question-mark (?) in the following equation ?

1. $\frac{3}{5}$ of $\frac{5}{7}$ of 357 = ?

- (A) 51 (B) 153
(C) 255 (D) 159
(E) None of these

2. $4320 \div 16 \div 9 = ?$

- (A) 45 (B) 36
(C) 27 (D) 33
(E) None of these

3. 125% of 860 + 75% of 480 = ?

- (A) 1415 (B) 1385
(C) 1435 (D) 1365
(E) None of these

4. $1121 \cdot 21 + 121 \cdot 021 + 21 \cdot 0021 = ?$

- (A) 1263-2331 (B) 1263-2121
(C) 1163-2121 (D) 1163-2331
(E) None of these

Directions—(Q. 5-8) What approximate value will come in place of the question-mark (?) in following equation ?
(You are not expected to calculate the exact value.)

5. $\frac{2}{7}$ of $\frac{14}{19}$ of 305 = ?

- (A) 75 (B) 64
(C) 56 (D) 78
(E) 69

6. $384 \cdot 996 \times 15 \cdot 001 + 44 \cdot 99 = ?$

- (A) 5280 (B) 5420
(C) 5820 (D) 5480
(E) 5240

7. $(10 \cdot 998)^2 \times (4 \cdot 001)^3 = ?$

- (A) 7700 (B) 7640
(C) 7600 (D) 7560
(E) 7740

8. $(12 \cdot 001)^2 \times \sqrt{725} = ?$

- (A) 3560 (B) 4120
(C) 3720 (D) 3880
(E) 3640

Directions—(Q. 9-12) What will come in place of the question-mark (?) in each of the following number series ?

9. 4, 5, 13, 40, 104, ?

- (A) 229 (B) 308
(C) 315 (D) 241
(E) None of these

10. 8, 9, 13, 22, ?, 63

- (A) 31 (B) 41
(C) 36 (D) 38
(E) None of these

11. 7, 6, 10, 27, 104, ?

- (A) 520 (B) 420
(C) 515 (D) 525
(E) None of these

12. 3, 7, 15, ?, 63, 127

- (A) 35 (B) 37
(C) 33 (D) 29
(E) None of these

13. Mr. Baljit purchased 100 pieces of an article @ ₹ 480 per piece. He then listed the price so as to gain a profit of 25%. While selling the articles he offered a discount of 5%. What is the percentage of profit earned in the deal ?

- (A) 20-00 (B) 15-00
(C) 15-79 (D) 18-75
(E) None of these

14. The number formed by interchanging the positions of digits of a two digit number is less than the original number by 72. What is the original two digit number ?

- (A) 80 (B) 91
(C) 81 (D) 19
(E) None of these

15. Present ages of Leela and Shivani are in the ratio of 4 : 5 respectively. Three years hence this ratio becomes 5 : 6. What is the difference between their present ages ?

- (A) 5 years (B) 6 years
(C) 4 years (D) 3 years
(E) None of these

16. Perimeter of a circle is equal to the perimeter of a square whose area is 484 cm^2 . What is the radius of the circle ?

- (A) 22 cm
(B) 14 cm
(C) 7 cm
(D) Cannot be determined
(E) None of these

17. Mr. Rajesh spent 20% of his monthly income on grocery and household expenses. Out of the remaining he spent 25% on children's education, 20% on transport and 15% on entertainment. He is left with an amount of ₹ 14,400 after incurring above expenses. What was his monthly income ?

- (A) ₹ 45,000 (B) ₹ 24,000
(C) ₹ 35,000 (D) ₹ 32,000
(E) None of these

18. A and B together can complete a piece of work in 4 days. If A alone can complete the same piece of work in 5 days, in how many days will B alone complete it ?

- (A) 15 days (B) 12 days
(C) 9 days (D) 20 days
(E) None of these

19. Three-fifth of a number is equal to 70% of another number. What is the ratio between the first number and the second number respectively ?

- (A) 7 : 6 (B) 7 : 8
(C) 3 : 4 (D) 4 : 7
(E) None of these

20. Number of students in a school in June every year increases by 10% from the previous year. If the school had 2,400 students in June 2009, how many students did it have in June 2011 ?

- (A) 2,840 (B) 2,880
(C) 2,904 (D) 2,920
(E) None of these

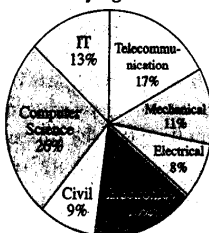
Directions—(Q. 21–25) In each of these question, two equations I and II are given with variables x and y . You have to solve both the equations and give answers :

- (A) If $x < y$
(B) If $x \leq y$
(C) If $x > y$
(D) If $x = y$
(E) If $x \geq y$
21. I. $4x^2 - 16x + 15 = 0$
II. $2y^2 - 5y + 3 = 0$
22. I. $x^2 + 3x + 2 = 0$
II. $y^2 - 3y + 2 = 0$
23. I. $x^2 - 3x + 2 = 0$
II. $y^2 - 5y + 6 = 0$
24. I. $6x^2 - 5x + 1 = 0$
II. $6y^2 + 5y + 1 = 0$
25. I. $x^2 = 9$
II. $y^2 - 9y + 20 = 0$

Directions—(Q. 26–30) Study the following pie charts carefully to answer these questions.

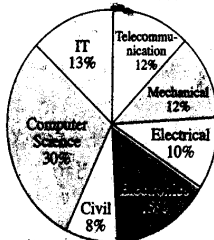
Details of Number of Students Studying in Different Engineering Branches

Total No. of Students Studying = 2500



Details of Number of Students who got Campus Placement

Total No. of Students who got Placement = 1600



26. Number of students who got placement from Mechanical is what per cent of the total number of students studying Engineering ?

- (A) 8.22 (B) 6.78
(C) 7.68 (D) 6.4
(E) None of these

27. If 40% of the students studying Civil are girls how many girls are studying Civil ?

- (A) 90 (B) 160
(C) 120 (D) 115
(E) None of these

28. Total number of students who got placement from IT and Computer Science together is **approximately** what per cent of the total number of students studying these two disciplines together ?

- (A) 43 (B) 75
(C) 60 (D) 65
(E) 70

29. What is the respective ratio between number of students who got placement from IT and the number of students studying Computer Science ?

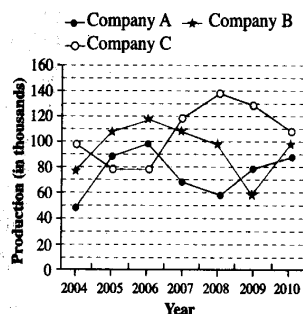
- (A) 108 : 325 (B) 52 : 325
(C) 208 : 325 (D) 104 : 325
(E) None of these

30. What per cent of students studying Electronics got the placement ?

- (A) 40 (B) 60
(C) 48 (D) 66
(E) None of these

Directions—(Q. 31–35) Study the following graph carefully to answer these questions.

Annual Production of Cars by Company A, Company B and Company C in Thousands



31. **Approximately**, what is the ratio between the average production of cars in Company A in 2007 and 2008 together and average production of cars in Company C for all the years taken together ?

- (A) 13 : 22
(B) 15 : 27
(C) 65 : 91
(D) 63 : 46
(E) None of these

32. The total production of cars by all three companies in 2006 is by what per cent (percentage rounded off to two digits after decimal) more / less than production of cars in all the three companies in 2004 ?

- (A) More by 30.43%
(B) Less by 15.65%
(C) Less by 33.45%
(D) More by 25.48%
(E) None of these

33. For Company C had the total production for all the years been less by 25%, what would have been the total production for all the years ?

- (A) 3,34,700 units
(B) 2,75,000 units
(C) 5,70,000 units
(D) 4,50,633 units
(E) 4,72,500 units

34. Total production of cars of Companies B and C together in 2010 is **approximately** what per cent of the total production of these two companies together for all the years together ?

- (A) 10% (B) 12%
(C) 5% (D) 15%
(E) 7%

35. The average production of cars in Company B is **approximately** what percentage of average production of cars in Company C for all the years taken together ?

- (A) 62%
(B) 74%
(C) 85%
(D) 82%
(E) 90%