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Simplifying Test Prep

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IDBI EXECUTIVE EXAM QUESTION
PAPER 2012: QUANTITATIVE APTITUDE

Directions—(Q. 1–5) What should come in place of question-mark (?) in the following questions ?

- 85% of $\frac{4}{7}$ of 6755 = ? + 1687
 (A) 1586 (B) 1592
 (C) 1594 (D) 1582
 (E) None of these
- $(5568 \div 87)^{1/3} + (72 \times 2)^{1/2} =$
 $(?)^{1/2}$
 (A) 256 (B) 4
 (C) $\sqrt{2}$ (D) 16
 (E) None of these
- $\sqrt{13^2 + 28 + 4 - (3)^3 + 107} = (?)^2$
 (A) 2 (B) 16
 (C) 256 (D) 4
 (E) $(256)^2$
- $(0.49)^4 \times (0.343)^4 \div (0.2401)^4 = (70 + 100)^{2+3}$
 (A) 3 (B) 1
 (C) 4 (D) 7
 (E) None of these
- 45% of $\sqrt{2025} \div 0.01 = (?)^2 \div 25$
 (A) 3 (B) $(81)^2$
 (C) 81 (D) 9
 (E) $(15)^2$
- Which of the following is second largest ?
 (A) $138.6 - 38.4 + 479.3$
 (B) $36.5 - 844.6 + 1289$
 (C) $931 - 564 + 156$
 (D) $564 - 213 + 120$
 (E) $130 - 461 + 888$
- Which of the following is the largest ? (You are not expected to calculate the exact value)
 (A) $(56 \times 15) \div 4^2$
 (B) $(25 \times 72) \div 6^2$
 (C) $(6 \times 441) \div 7^2$
 (D) $(28 \times 78) \div 56$
 (E) $(32 \times 48) \div 26$
- Which of the following is the smallest ? (You are not expected to calculate the exact value)

(A) $\left(\frac{5}{9} \text{ of } 1250\right)^{1/2}$

(B) $\left(\frac{7}{13} \text{ of } 4112\right)^{1/3}$

(C) $\left(\frac{5}{19} \text{ of } 3221\right)^{1/2}$

(D) $\left(\frac{15}{11} \text{ of } 412\right)^{1/2}$

(E) $\left(\frac{17}{13} \text{ of } 3444\right)^{1/3}$

- The cost of 8 dozen of eggs is ₹ 256. Which calculation is needed to find the cost of 9 eggs ?
 (A) $(9 \times 256) \times (8 + 12)$
 (B) $(12 \times 256) \div (8 \times 9)$
 (C) $(8 \times 256) \div (9 \times 12)$
 (D) $(9 \times 256) \times (8 \times 12)$
 (E) $(9 \times 256) \div (8 \times 12)$
- 24% of $4568 \div 8\%$ of 246 is approximately equal to—
 (A) 32 (B) 43
 (C) 89 (D) 1075
 (E) 55

Directions—(Q. 11–15) What will come in place of question-mark (?) in the following number series ?

- 123 277 459 669 907 ?
 (A) 1179 (B) 1173
 (C) 1167 (D) 1169
 (E) None of these
- 456.5 407 368.5 341 324.5 ?
 (A) 321 (B) 319
 (C) 317 (D) 323
 (E) None of these
- 23 42.2 80.6 157.4 311 ?
 (A) 618.2 (B) 623.6
 (C) 624.2 (D) 616.6
 (E) None of these
- 36 154 232 278 300 ?
 (A) 304 (B) 313
 (C) 308 (D) 307
 (E) None of these

- 24 536 487 703 678 ?
 (A) 768 (B) 748
 (C) 764 (D) 742
 (E) None of these

Directions—(Q. 16–20) In the following questions two equations numbered I and II are given. You have to solve both the equations and give answer. If—

- $x > y$
 (B) $x \geq y$
 (C) $x < y$
 (D) $x \leq y$
 (E) $x = y$ or the relationship cannot be established
- I. $\frac{15}{\sqrt{x}} - \frac{9}{\sqrt{x}} = (x)^{1/2}$
 II. $y^{10} - (36)^5 = 0$
- I. $5x + 2y = 96$
 II. $3(7x + 5y) = 489$
- I. $(441)^{1/2} x^2 - 111 = (15)^2$
 II. $\sqrt{121} y^2 + (6)^3 = 260$
- I. $17x = (13)^2 + \sqrt{196} + (5)^2 + 4x$
 II. $9y - 345 = 4y - 260$
- I. $3x^2 - 13x + 14 = 0$
 II. $y^2 - 7y + 12 = 0$
- A man sells calculator at the rate of ₹ 250 each which includes a profit of 14 per cent. What amount of profit will he earn in 19 days if he sells seven calculators per day ?
 (A) ₹ 4665 (B) ₹ 4565
 (C) ₹ 4545 (D) ₹ 4655
 (E) None of these
- Circumference of a Circle-A is $1\frac{4}{7}$ times perimeter of a square. Area of the square is 784 sq cm. What is the area of another Circle-B whose diameter is half the radius of the Circle-A ?
 (A) 38.5 sq cm
 (B) 156 sq cm
 (C) 35.8 sq cm

- (D) 616 sq cm
(E) None of these
23. Amit's present age is three times Pratibha's present age and nine-thirteenth of his father's present age. The sum of the present ages of all of them is 150 years. What is the difference between Pratibha's present age and Amit's father's present age ?
(A) 56 years
(B) 64 years
(C) 60 years
(D) Cannot be determined
(E) None of these
24. What value will you obtain if twenty five percent of 2340 is subtracted from four-ninth of square of 36 ?
(A) 9 (B) -18
(C) 18 (D) -9
(E) 3
25. Varun got a monthly increment of 12 per cent of Puja's monthly salary. Puja's monthly salary is ₹ 7800. Varun's monthly salary before increment was ₹ 6400. What amount will he earn in four months after his increment ?
(A) ₹ 29344 (B) ₹ 29434
(C) ₹ 28434 (D) ₹ 28344
(E) None of these

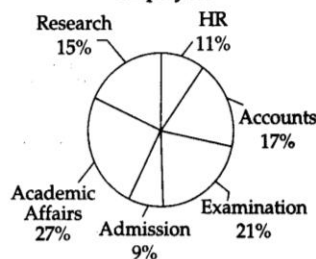
Directions—(Q. 26–30) Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and given answer—

- (A) If the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question
(B) If the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question
(C) If the data in either Statement I alone or in Statement II alone are sufficient to answer to question

- (D) If the data in both the Statements I and II are not sufficient to answer the question
(E) If the data in both the Statements I and II together are necessary to answer the question
26. What is the minimum passing percentage in a test ?
I. Raman scored 25% marks in the test and Sunil scored 288 marks which is 128 more than Raman.
II. Raman scored 64 marks less than the minimum passing marks.
27. What is the value of $x^2 + y + z$?
I. $4x + 3y + 5z = 60$ and $2x = y, 2y = z$
II. $3x + 3y + 2z = 34$
 $2x + 5y + 6z = 72$
28. Whose body weight is second highest among the five boys Arun, Vinay, Suraj, Raju and Pratap ?
I. Average weight of Arun, Suraj and Vinay is 68 kg and average weight of Raju and Pratap is 72 kg. Also Suraj is 78 kg, Raju is 68 kg and Vinay is 46 kg.
II. Average weight of Arun, Suraj, Vinay and Raju is 68 kg and also Suraj is 78 kg, Raju is 68 kg and Vinay is 46 kg. All of them have different weight.
29. What is the respective ratio between the length of a rectangle and side of a square ?
I. Area of the square is 576 sq cm and the area of the rectangle is 600 sq cm.
II. Breadth of the rectangle is half the side of the square.
30. What is the smaller angle of a parallelogram ?
I. Ratio between the angles of a triangle is 3 : 5 : 4 and the larger angle of the parallelogram is 34° more than the largest angle of the triangle.
II. Larger angle of the parallelogram is 38° more than its smaller angle.

Directions—(Q. 31–35) Study the following pi-chart and answer the following questions.

Total number of Employees = 12600
Percentagewise distribution of Employees



31. Number of employees in the department of Academic affairs is approximately what per cent more than the number of employees in Examination department ?
(A) 39 (B) 29
(C) 12 (D) 139
(E) 112
32. If 30 per cent of the number of employees of research department is females. Then what is the number of male employees in the research department ?
(A) 1343 (B) 1232
(C) 1323 (D) 1242
(E) None of these
33. Number of employees in Examination department is approximately what percentage of the total number of employees in the department of HR and Academic affairs together—
(A) 69 (B) 65
(C) 61 (D) 55
(E) 51
34. What is the average number of employees in Accounts, Admission and Research department together ?
(A) 1722 (B) 1742
(C) 1786 (D) 1784
(E) None of these
35. What is the difference between the total number of employees in the department of HR and Admission together and the total number of employees in Accounts and Examination department together ?
(A) 2268 (B) 2464
(C) 2286 (D) 2644
(E) None of these

Directions—(Q. 36–40) Study the table carefully to answer the questions that follow—

Number of Research Paper and Articles Published by Six Different Scholars (Person) in Five Different Journals										
Person	Journal									
	Edutrack		Frontier		Educon		New Era		Eduforms	
	Re-search Paper	Arti-cles	Re-search Paper	Arti-cles	Re-search Paper	Arti-cles	Re-search Paper	Arti-cles	Re-search Paper	Arti-cles
Anand	27	45	17	48	42	38	8	12	22	11
Vijay	16	35	6	24	12	4	6	14	38	25
Naidu	26	39	12	32	22	18	2	24	57	35
Mohan	42	75	22	39	62	36	12	16	39	48
Neeta	48	32	28	30	54	49	32	24	44	32
Ronit	13	23	29	21	69	56	19	4	11	18

36. How much more approximate percentage of the number of Research papers that were published by Neeta in Educon as compared to the number of Research papers that were published by Vijay in Eduforms ?
 (A) 52 (B) 42
 (C) 152 (D) 147
 (E) 47

37. What is the difference between the total number of Research papers published by Anand, Vijay and Neeta together in Educon and the total number of Articles published by Mohan, Naidu and Ronit together in Edutrack ?
 (A) 33 (B) 27
 (C) 32 (D) 29
 (E) None of these

38. Who published third highest number of Research papers and Articles together in Eduforms ?
 (A) Anand (B) Vijay
 (C) Neeta (D) Mohan
 (E) Naidu

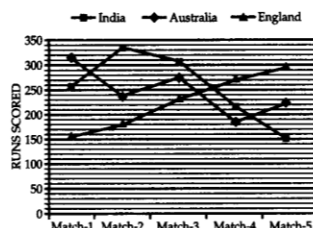
39. What is the average number of Research papers published by all the six scholars together in Frontier ?
 (A) 14 (B) 16
 (C) 17 (D) 15
 (E) None of these

40. Total number of Research papers and Articles together published by Mohan in Edutrack is approximately what percentage of the total number of Articles published by all the six scholars together in New Era ?

- (A) 145 (B) 117
 (C) 137 (D) 132
 (E) 124

Directions—(Q. 41–45) Study the following graph carefully to answer the questions that follow :

Runs Scored by Three Different Teams in Five Different Cricket Matches



41. Total runs scored by India and Australia in Match-4 together is approximately what percentage of the total runs scored by England in all the five matches together ?
 (A) 42 (B) 18
 (C) 36 (D) 24
 (E) 28
42. In which match is the difference between the runs scored by Australia and England second lowest ?
 (A) Match-1 (B) Match-2
 (C) Match-3 (D) Match-4
 (E) Match-5
43. In which match the total runs scored by India and England together are third highest/lowest ?
 (A) Match-1 (B) Match-2
 (C) Match-3 (D) Match-4
 (E) Match-5

44. What is the respective ratio between the runs scored by India in Match-5, Australia in Match-1 and England in Match-2 ?
 (A) 11 : 13 : 7
 (B) 11 : 7 : 13
 (C) 11 : 3 : 9
 (D) 11 : 13 : 9
 (E) None of these

45. What are the average runs scored by all the three teams in Match-3 together ?
 (A) 280 (B) 270
 (C) 275 (D) 285
 (E) None of these

Directions—(Q. 46–50) Study the information carefully to answer the questions that follow :

In a school there are total 120 staff members and 800 students. 65 per cent of the number of staff members is teachers and remaining staff members are administrative officials. Out of the total number of students 45 per cent are girls. Twenty per cent of the number of girls can speak only Hindi. Remaining girls can speak both Hindi and English. Three-fourth of the number of boys can speak only Hindi. Remaining boys can speak both Hindi and English. Two-third of the number of teachers is male. Five-fourteenth of the number of administrative officials is female.

46. What is the difference between the number of boys (student) who can speak both Hindi and English and the number of girls (student) who can speak both Hindi and English ?
 (A) 164 (B) 178
 (C) 188 (D) 174
 (E) None of these
47. Total number of girls (student) is what percentage of the total number of staff members in the school ?
 (A) 350 (B) 300
 (C) 400 (D) 450
 (E) None of these
48. What is the difference between the total number of female administrative officials and female teachers together and the number of male administrative officials ?

- (A) 16 (B) 12
 (C) 18 (D) 14
 (E) None of these
49. What is the respective ratio between the total number of teachers and the number of boys (student) who can speak Hindi only ?
 (A) 11 : 56 (B) 13 : 54
 (C) 13 : 56 (D) 11 : 54
 (E) None of these
50. What is the total number of male administrative officials, female teachers and girls (student) who can speak Hindi only ?
 (A) 125 (B) 115
 (C) 127 (D) 117
 (E) None of these

Answer 1 to 50

1	(C)	26	(E)
2	(A)	27	(A)
3	(D)	28	(A)
4	(B)	29	(E)
5	(E)	30	(C)
6	(E)	31	(B)
7	(E)	32	(C)
8	(B)	33	(D)
9	(E)	34	(A)
10	(E)	35	(A)
11	(B)	36	(B)
12	(B)	37	(B)
13	(A)	38	(C)
14	(E)	39	(E)
15	(D)	40	(E)
16	(E)	41	(C)
17	(A)	42	(C)
18	(A)	43	(A)
19	(C)	44	(D)
20	(C)	45	(B)
21	(E)	46	(B)

22	(E)	47	(B)
23	(C)	48	(D)
24	(D)	49	(E)
25	(A)	50	(A)

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