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Uttaranchal Gramin Bank Officers Exam 2012:  
Solved Numerical Ability Question Paper

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

1.  $36.7\%$  of 1760 -  $22.2\%$  of 675 =  $(?)^2 + 12.07$   
 (A) 468 (B) 22  
 (C) 484 (D) 28  
 (E) 784
2.  $(73)^2 - 6205 \div 17 = (?)^2 + 1243$   
 (A) 3481 (B)  $(69)^2$   
 (C) 59 (D) 69  
 (E) 61
3.  $5\frac{2}{7} - 12 + 6\frac{1}{8} = ? - \frac{17}{28}$   
 (A)  $\frac{5}{56}$  (B)  $\frac{3}{28}$   
 (C)  $-\frac{1}{56}$  (D)  $\frac{1}{28}$   
 (E) None of these
4.  $\sqrt{(1.6)^2 \times 5 + 1.6 \times (8)^3} - 103 = (?)^3$   
 (A)  $\sqrt{3}$  (B) 81  
 (C) 9 (D) 27  
 (E) None of these
5.  $(0.17 \times 10)^5 + (2.89)^5 \times (4.913)^7 = (1.7)^2 + 15$   
 (A) 5 (B) 2  
 (C) 6 (D) 1  
 (E) None of these

Directions—(Q. 6-10) What approximate value will come in place of question-mark (?) in the following questions ?

(You are not expected to calculate the exact value)

6.  $(47.1)^2 - (7.9)^2 - (12.01)^2 = ?$   
 (A) 2010 (B) 2070  
 (C) 2160 (D) 2280  
 (E) 2340
7.  $\sqrt{5667} \times \sqrt{3321} + \sqrt{7440} = \sqrt{?}$   
 (A) 2530 (B) 2680  
 (C) 2780 (D) 2120  
 (E) 2260

8.  $(458 + 343) \times 123 \div 191 + 324 = ?$   
 (A) 920 (B) 780  
 (C) 700 (D) 840  
 (E) 650

9.  $87\%$  of 3981 - 725.14 = ? +  $45\%$  of 2789  
 (A) 1360 (B) 1780  
 (C) 1480 (D) 1860  
 (E) 1660

10.  $(35.9)^2 \div 26.01 \times 29 = ? - 677$   
 (A) 2300 (B) 2110  
 (C) 2000 (D) 2410  
 (E) 2490

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

11. 621, 808, 587, 842, 553, ?  
 (A) 866 (B) 877  
 (C) 856 (D) 867  
 (E) None of these
12. 23.5, 40, 73, 122.5, 188.5, (?)  
 (A) 267.5 (B) 271  
 (C) 267 (D) 278.5  
 (E) None of these
13. 146, 1394, 770, 1082, 926, (?)  
 (A) 1022 (B) 1004  
 (C) 848 (D) 842  
 (E) None of these
14. 55.5, 122, 173.5, 212, 239.5, (?)  
 (A) 256 (B) 264  
 (C) 262 (D) 258  
 (E) None of these
15. 12, 12, 38, 62, 404, (?)  
 (A) 496 (B) 486  
 (C) 492 (D) 484  
 (E) None of these

Directions—(Q. 16-20) In the following questions three equations numbered I, II and III are given. You have to solve all the equations either together or separately, or two together and one separately, or by any other method and give answer—

- (A) If  $x > y = z$
- (B) If  $x \geq y < z$
- (C) If  $x < y > z$
- (D) If  $x = y > z$
- (E) If  $x = y = z$

or if none of the above relationship is established

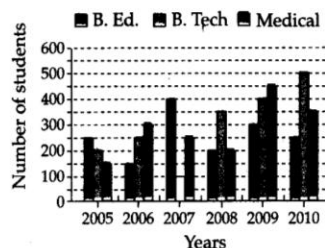
16. I.  $x = (16)^{1/2} \times (216)^{1/3}$   
 II.  $x + 3y = 96$   
 III.  $2x + 2y + z = 112$
17. I.  $12x = (8)^2 + \sqrt{64}$   
 II.  $8y^2 = 240 + 32 + (4)^2$   
 III.  $8(9z + 8z) = 1088$
18. I.  $x + y = 36$   
 II.  $x - y = 0$   
 III.  $x + 2z = 50$
19. I.  $3x + 4y + 3z = 61$   
 II.  $x + y + 2z = 24$   
 III.  $2x + 2y + z = 30$
20. I.  $3x + 5y = 59$   
 II.  $2x + 3y = 37$   
 III.  $8z = 14 + 6z$
21. Cost of nine pencils is equal to the cost of four pens. Cost of thirteen pencils and six pens is ₹ 159. What is the cost of twenty one pencils and seventeen pens together ?  
 (A) ₹ 345.50 (B) ₹ 354.50  
 (C) ₹ 342 (D) ₹ 355  
 (E) None of these
22. The average marks obtained by Sunny in seven subjects are 75. If after re-evaluation average marks in all the seven subjects changed to 82. How many marks were increased overall ?  
 (A) 48 (B) 59  
 (C) 57 (D) 49  
 (E) None of these
23. What value will be obtained if five-ninth of sixty per cent of cube of eighteen is added to forty per cent of square of twenty five ?

- (A) 2216 (B) 2186  
(C) 2194 (D) 2212  
(E) None of these
24. Ramesh is five years older than Suresh. Respective ratio between Suresh's age and Madan's age is 3 : 8. Raju is 8 years younger than Madan. Raju's present age is 48 years. What is Ramesh's present age ?  
(A) 16 years  
(B) 21 years  
(C) 26 years  
(D) Cannot be determined  
(E) None of these
25. A vendor sells deodorants at the rate of ₹ 160. The profit is 15% of the selling price. He also sells talc powder at the rate of ₹ 90 each. The profit of Talc Powder is 12% of its selling price. What amount of profit will he earn in three days if he sells 4 deodorants and 5 talc powder per day ?  
(A) ₹ 520 (B) ₹ 480  
(C) ₹ 540 (D) ₹ 450  
(E) None of these
26. The length of a rectangle is twenty five per cent more than its breadth. The area of the rectangle is 1620 sq cm. What is the area of a square whose side is half the length of the rectangle ?  
(A) 506.25 sq cm  
(B) 512.75 sq cm  
(C) 515.25 sq cm  
(D) 509.75 sq cm  
(E) None of these
27. Two angles of a triangle are in the ratio 2 : 3. Remaining angle is the largest angle which is twice the smallest angle of the triangle. what is the measure of larger angle of a parallelogram if the largest angle of the triangle is equal to smaller angle of the parallelogram ?  
(A) 100°  
(B) 110°  
(C) 120°  
(D) Cannot be determined  
(E) None of these
28. In a test, minimum passing percentage for girls and boys are 45% and 60% respectively. A boy scored 767 marks and failed by 313 marks. What are the **minimum** passing marks for girls ?

- (A) 910 (B) 920  
(C) 840 (D) 810  
(E) None of these
29. Train-A crossed a stationary train in 39 seconds. It also crossed a man standing on a platform in 19 seconds. The length of the train-A is 456 metre. What is the length of the stationary train?  
(A) 460 metre  
(B) 480 metre  
(C) 490 metre  
(D) Cannot be determined  
(E) None of these
30. In a metro train there are 600 passengers out of which 34 per cent are females. Fare of each male is ₹ 20 and each female's fare is 25 per cent less than each male. What is the total revenue generated by all the passengers together ?  
(A) ₹ 10,880 (B) ₹ 10,980  
(C) ₹ 10,740 (D) ₹ 10,680  
(E) None of these

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

**Number of Students Enrolled in three Different Courses in Six Different Years**



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

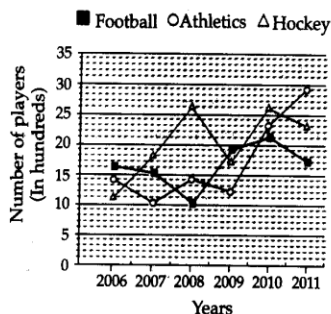
Banks	Districts									
	District - P		District - Q		District - R		District - S		District - T	
	Officers	Clerks	Officers	Clerks	Officers	Clerks	Officers	Clerks	Officers	Clerks
Bank-A	3.6	13.6	6.2	12.1	7.5	34.5	6.4	21.4	3.5	9.6
Bank-B	5.6	16.2	4.9	10.2	10.9	23.3	4.4	22.3	6.5	16.6
Bank-C	7.3	31.9	4.8	14.2	15.8	40.9	4.5	33.3	2.9	12.4
Bank-D	8.4	35.6	12.3	35.4	16.6	45.2	7.3	35.4	9.4	25.7
Bank-E	2.4	9.9	4.5	15.9	12.7	26.6	12.4	35.2	6.9	21.5
Bank-F	1.3	14.3	5.8	14.4	13.7	24.2	15.2	29.4	10.8	32.8

31. Number of students enrolled in B.Ed. in the year 2005 and 2009 together was **approximately** what percentage of the total number of students enrolled in Medical over all the years together ?  
(A) 32 (B) 37  
(C) 42 (D) 46  
(E) 29
32. What was the average number of the students enrolled in B-Tech over all the years together ?  
(A) 400 (B) 1600  
(C) 1800 (D) 900  
(E) None of these
33. What was the respective ratio between the number of students enrolled in Medical in the year 2010 and the number of students enrolled in B. Ed. in the year 2007 ?  
(A) 7 : 8 (B) 8 : 5  
(C) 5 : 8 (D) 7 : 9  
(E) None of these
34. In which year was the difference between the students enrolled in B. Ed. and B. Tech. second highest ?  
(A) 2005 (B) 2006  
(C) 2008 (D) 2009  
(E) 2010
35. What was the percentage increase in number of students enrolled in B. Tech in the year 2008 as compared to previous year ?  
(A) 150 (B) 250  
(C) 450 (D) 350  
(E) None of these

36. Twenty-six per cent of the number of officers in Bank-A from District-T is female. What is the number of male officers in Bank - A from District-T ?  
 (A) 336 (B) 332  
 (C) 248 (D) 259  
 (E) None of these
37. What is the respective ratio between the number of clerks in Bank-E from District-Q and the number of officers in Bank-C from District-S ?  
 (A) 51 : 16 (B) 53 : 15  
 (C) 43 : 16 (D) 53 : 16  
 (E) None of these
38. Total number of officers in Bank-C and Bank-F from District-P together is **approximately** what percentage of the number of clerks in Bank-B from district-S ?  
 (A) 29 (B) 23  
 (C) 45 (D) 49  
 (E) 39
39. In which Bank from District-R is the difference between the number of officers and clerks second lowest ?  
 (A) Bank-A (B) Bank-B  
 (C) Bank-C (D) Bank-D  
 (E) Bank-E
40. What is the average number of officers in Bank-D from all the districts together ?  
 (A) 400 (B) 700  
 (C) 800 (D) 900  
 (E) None of these
41. What was the difference between the number of players participated in athletics in the year 2010 and the number of players participated in Hockey in the year 2009 ?  
 (A) 660 (B) 600  
 (C) 580 (D) 700  
 (E) None of these
42. If 23 per cent of the players participated in athletics in the year 2006 found positive in doping test. What was number of players participated in athletics in the year 2006 found negative in doping test ?  
 (A) 1078 (B) 1048  
 (C) 1026 (D) 1064  
 (E) None of these
43. What was the **approximate** average number of players participated in hockey over all the years together ?  
 (A) 2034 (B) 2104  
 (C) 2046 (D) 2146  
 (E) 2004
44. Total number of players participated in all the sports together in the year 2007 was **approximately** what percentage of the total number players participated in football over all the years together ?  
 (A) 49 (B) 51  
 (C) 35 (D) 44  
 (E) 31
45. What was the per cent decrease in the number of players participated in football in the year 2008 as compared to previous year ?  
 (A) 30 (B) 44  
 (C) 48 (D) 52  
 (E) 34
46. What was the difference between the total yearly fee for all the courses together in the year 2009 and the yearly fees of MBA course in the year 2008 ?  
 (A) ₹ 4,85,000  
 (B) ₹ 48,200  
 (C) ₹ 4,82,000  
 (D) ₹ 48,500  
 (E) None of these
47. Total Yearly fees of B.A. course over all the years together was **approximately** what percentage of total yearly fees of BCA course in the year 2008, 2009 and 2010 together ?  
 (A) 76 (B) 72  
 (C) 58 (D) 62  
 (E) 68
48. What was the per cent increase in yearly fees of B.Sc. in the year 2010 as compared to the previous year ?  
 (A) 46 (B) 38  
 (C) 42 (D) 36  
 (E) None of these
49. What was the average yearly fee of MBA course over all the years together ?  
 (A) 16420 (B) 15640  
 (C) 16120 (D) 15440  
 (E) None of these
50. If twenty-five per cent of the yearly fees were reduced for BCA course in the year 2009. What was the rectified yearly fee for BCA course in the year 2009 ?  
 (A) ₹ 12,100 (B) ₹ 11,200  
 (C) ₹ 11,010 (D) ₹ 12,110  
 (E) None of these

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

**Number of Players (in hundreds) participated in a sports event in three different sports in six different years**



Directions—(Q. 46–50) Study the following table carefully and answer the questions that follows—

Years	Courses				
	MBA	BCA	B.Sc.	BBA	B.A.
2006	9.4	6.8	2.5	6.3	1.2
2007	12.3	8.8	5.4	7.6	3.8
2008	14.5	12.4	5.6	10.2	5.4
2009	19.8	14.8	7.5	12.4	8.5
2010	24.6	18.6	10.2	14.9	9.4

**ANSWERS:**

1	(B)
2	(E)
3	(E)
4	(E)
5	(D)
6	(A)
7	(A)
8	(D)
9	(C)
10	(B)
11	(E)
12	(B)
13	(B)
14	(D)
15	(D)
16	(D)
17	(E)
18	(D)
19	(C)
20	(A)
21	(E)
22	(D)
23	(C)
24	(C)
25	(D)

26	(A)
27	(A)
28	(D)
29	(B)
30	(B)
31	(A)
32	(E)
33	(A)
34	(C)
35	(B)
36	(D)
37	(B)
38	(E)
39	(B)
40	(E)
41	(B)
42	(A)
43	(A)
44	(D)
45	(E)
46	(D)
47	(D)
48	(D)
49	(C)
50	(E)