# JAGRAN Josh
your guide to success

ALLAHABAD BANK PO EXAM 2011:
QUANTITATIVE APTITUDE QUESTION PAPER

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

1. $\frac{3}{19}$ of 30% of 3420 = (?)$^2$ × 2

   (A) $(81)^2$     (B) 7

   (C) 9     (D) 81

   (E) 49

2. $1898 \div 73 \times 72 = (?)^2 \times 13$

   (A) – 256     (B) 256

   (C) 12     (D) 144

   (E) – 16

3. $\sqrt{7^2 \times 24 \times 2 - (11)^3 + 3} = ?$

   (A) 42     (B) 1024

   (C) 1764     (D) $(1024)^2$

   (E) 32

4. $(0.81)^2 \div (0.729)^3 \times (0.9)^2 = (0.9)^{? - 3}$

   (A) 6     (B) 2

   (C) 4     (D) 0

   (E) None of these

5. 65% of $\sqrt{3136} \times 5 = ? + 154$

   (A) 56     (B) 28

   (C) 35     (D) 32

   (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. $\sqrt{3100} \times \sqrt{567} \div \sqrt{250} = ? \div 8$

   (A) 620     (B) 670

   (C) 770     (D) 750

   (E) 700

7. 89·988% of 699·9 + 50·002% of 999·99 – 170·015 = ?

   (A) 990     (B) 900

   (C) 920     (D) 960

   (E) 860

8. $\frac{340}{20 \cdot 002} \div \frac{29 \cdot 997}{510} \times \frac{179 \cdot 909}{59 \cdot 919} = ?$

   (A) 760     (B) 800

   (C) 690     (D) 870

   (E) 780

9. $6999 \div 70 \cdot 005 \times 94 \cdot 998 = ? \times 19 \cdot 999$

   (A) 475     (B) 420

   (C) 320     (D) 540

   (E) 525

10. $(49 \cdot 99)^2 - (8 \cdot 9)^2 - (15 \cdot 9)^2 = ?$

    (A) 2165     (B) 2000

    (C) 1965     (D) 1920

    (E) 1885

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

11. 958, 833, 733, 658, 608, (?)

    (A) 577     (B) 583

    (C) 567     (D) 573

    (E) None of these

12. 11, 10, 18, 51, 200, (?)

    (A) 885     (B) 1025

    (C) 865     (D) 995

    (E) None of these

13. 25, 48, 94, 186, 370, (?)

    (A) 738     (B) 744

    (C) 746     (D) 724

    (E) None of these

14. 14, 24, 43, 71, 108, (?)

    (A) 194     (B) 154

    (C) 145     (D) 155

    (E) None of these

15. 144, 173, 140, 169, 136, (?)

    (A) 157     (B) 148

    (C) 164     (D) 132

    (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 :

(A) $x > y$

(B) $x \geq y$

(C) $x < y$

(D) $x \leq y$

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

16. I.   $\sqrt{25x^2} - 125 = 0$

    II.   $\sqrt{361}\, y + 95 = 0$

17. I.   $\frac{5}{7} - \frac{5}{21} = \frac{\sqrt{x}}{42}$

    II.   $\frac{\sqrt{y}}{4} + \frac{\sqrt{y}}{16} = \frac{250}{\sqrt{y}}$

18. I.   $(625)^{1/4} x + \sqrt{1225} = 155$

    II.   $\sqrt{196}\, y + 13 = 279$

19. I.   $5x^2 - 18x + 9 = 0$

    II.   $3y^2 + 5y - 2 = 0$

20. I.   $\frac{13}{\sqrt{x}} + \frac{9}{\sqrt{x}} = \sqrt{x}$

    II.   $y^4 - \frac{(13 \times 2)^{9/2}}{\sqrt{y}} = 0$

21. The ratio between the speed of a bus and train is 15 : 27 respectively. Also, a car covered a distance of 720 km in 9 hours. The speed of the bus is three-fourth the speed of the car. How much distance will the train cover in 7 hours ?

    (A) 760 km

    (B) 756 km

    (C) 740 km

    (D) Cannot be determined

    (E) None of these

22. Raman's present age is three times his daughter's present age and nine-thirteenth of his mother's present age. The sum of the present ages of all of them is 125 years. What is the difference between the Raman's daughter's present age and Raman's mother's present age ?

(A) 45 years

(B) 40 years

(C) 50 years

(D) Cannot be determined

(E) None of these

23. What is the value of twenty four per cent of four-ninth of five times square of twenty-seven ?

(A) 388·8

(B) 376·8

(C) 378·6

(D) 346·6

(E) None of these

24. The sum of the circumference of a circle and the perimeter a square is equal to 272 cm. The diameter of the circle is 56 cm. What is the sum of the area of the circle and the area of the square ?

(A) 2464 sq cm

(B) 2644 sq cm

(C) 3040 sq cm

(D) Cannot be determined

(E) None of these

25. The largest and the second largest angles of a triangle are in the ratio of 4 : 3 respectively. The smallest angle is half the largest angle. What is the difference between the smallest and the largest angles of the triangle ?

(A) 30°       (B) 60°

(C) 40°       (D) 20°

(E) None of these

26. Kamya purchased an item of ₹ 46,000 and sold it at loss of 12 per cent. With that amount she purchased another item and sold it at a gain of 12 per cent. What was her overall gain/loss ?

(A) Loss of ₹ 662·40

(B) Profit of ₹ 662·40

(C) Loss of ₹ 642·80

(D) Profit ₹ 642·80

(E) None of these

27. The sum of six consecutive even numbers of set-A is 402. What is the sum of another set-B of four consecutive numbers whose lowest number is 15 less than **double** the lowest number of set-A ?

(A) 444       (B) 442

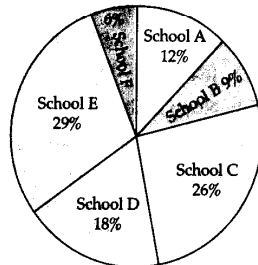(C) 440       (D) 446

(E) None of these

28. Call rate of a sim company-A is 1 paisa for every 3 seconds. Another sim company-B charges 45 paisa per minute. A man talked 591 seconds from Sim Company-A and 780 seconds from sim company-B. What would be the total amount he spent ?

(A) ₹ 7·80

(B) ₹ 7·40

(C) ₹ 7·46

(D) ₹ 7·82

(E) ₹ 8·46

29. A 280 metre long train moving with an average speed of 108 km/hr crosses a platform in 12 seconds. A man crosses the same platform in 10 seconds. What is the speed of the man in meter/ second ?

(A) 5 m/s

(B) 8 m/s

(C) 12 m/s

(D) Cannot be determined

(E) None of these

30. The ratio between the three angles of a quadrilateral is 13 : 9 : 5 respectively. The value of the fourth angle of the quadrilateral is 36°. What is the difference between the **largest** and the **second smallest** angles of the quadrilateral ?

(A) 104°       (B) 108°

(C) 72°       (D) 96°

(E) None of these

Directions—(Q. 31–35) Study the following pie-chart and bar chart and answer the following questions.
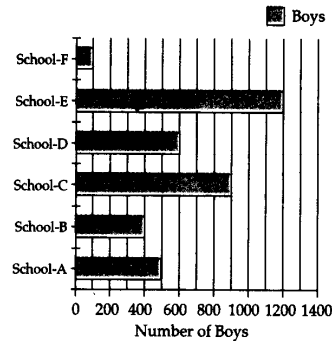
**Percentagewise Distribution of students in six different Schools**

**Total number of Students = 6000**

**Percentage of Students**



School A 12%

School B 9%

School C 26%

School D 18%

School E 29%

School F 6%

**Number of Boys out of the 6000 Students in each School Separately**



31. What is the total number of girls in School-C, number of girls in School-E and the number of boys in school-D together ?

(A) 1700       (B) 1900

(C) 1600       (D) 1800

(E) None of these

32. What is the respective ratio between the number of boys in School-C, number of girls in school-B and total number of students in School-E ?

(A) 45 : 7 : 97

(B) 43 : 9 : 97

(C) 45 : 7 : 87

(D) 43 : 9 : 87

(E) None of these

33. What is the difference between the total number of students in School-F and the number of boys in school-E ?

(A) 820       (B) 860

(C) 880       (D) 900

(E) None of these

34. In which school the total number of students (both boys and girls) together are equal to the number of girls in School-E ?

(A) A       (B) B

(C) C       (D) D

(E) F

35. Number of girls in School-A is **approximately** what per cent of total number of students in School-B ?
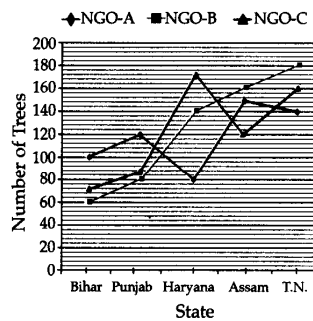
(A) 55       (B) 50

(C) 35       (D) 45

(E) 40

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

| | Number of Athletes (in hundreds) who Participated in a Sports Event from Five Different Countries over the years | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Countries | | | | | | | | | |
| Year | A | | B | | C | | D | | E | |
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 2005 | 4·4 | 3·3 | 6·3 | 4·2 | 4·5 | 3·1 | 5·6 | 4·1 | 4·7 | 2·1 |
| 2006 | 6·6 | 4·2 | 8·4 | 6·2 | 6·9 | 3·3 | 8·4 | 6·3 | 7·8 | 5·2 |
| 2007 | 4·6 | 1·8 | 7·4 | 4·8 | 4·8 | 2·8 | 9·3 | 7·3 | 8·7 | 6·5 |
| 2008 | 9·6 | 4·9 | 11·4 | 8·4 | 6·6 | 4·2 | 12·6 | 9·4 | 8·9 | 5·8 |
| 2009 | 11·8 | 6·4 | 10·6 | 5·2 | 7·9 | 6·3 | 14·4 | 10·2 | 11·8 | 9·2 |
| 2010 | 8·2 | 5·2 | 6·4 | 7·2 | 10·8 | 6·9 | 15·6 | 12·1 | 13·6 | 9·8 |

36. In which year was the total number of participants (athletes) second highest from Country-C ?
    (A) 2005   (B) 2006
    (C) 2007   (D) 2008
    (E) None of these

37. What was the average number of female athletes who participated from country-B over all the years together ?
    (A) 1200   (B) 400
    (C) 600   (D) 1800
    (E) 3600

38. What was the **approximate** percentage decrease in the number of male athletes who participated from Country-C in the year 2007 as compared to the previous year ?
    (A) 21   (B) 30
    (C) 35   (D) 39
    (E) 25

39. Number of female athletes who participated from Country-E in the year 2009 was **approximately** what percentage of the total nubmer of athletes who participated from Country-B in the year 2008 ?
    (A) 40   (B) 46
    (C) 50   (D) 56
    (E) 60

40. From which country is the difference between the number of male and female participants second highest in the year 2006 ?
    (A) A   (B) B
    (C) C   (D) D
    (E) E

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

**Number of Trees planted by three different NGOs in five different States**



41. In which state was the total number of trees planted by NGO-A and NGO-B together second lowest ?
    (A) Bihar   (B) Punjab
    (C) Haryana   (D) Assam
    (E) Tamil Nadu

42. What was the difference between the trees planted by NGO-A in Haryana and the number of trees planted by NGO-C in Tamil Nadu ?
    (A) 90   (B) 60
    (C) 120   (D) 100
    (E) None of these

43. What was the average number of trees planted in Haryana by all the NGOs together ?
    (A) 420   (B) 140
    (C) 120   (D) 390
    (E) None of these

44. Total number of trees planted by NGO-A and NGO-B together in Bihar was **approximately** what per cent of the total number of trees planted by NGO-B and NGO-C together in Punjab ?
    (A) 85   (B) 90
    (C) 105   (D) 110
    (E) 95

45. What was the respective ratio between the number of trees planted by NGO-B in Tamil Nadu, number of trees planted by NGO-C in Assam and the number of trees planted by NGO-A in Assam ?
    (A) 5 : 3 : 6   (B) 5 : 6 : 3
    (C) 6 : 4 : 5   (D) 6 : 5 : 3
    (E) None of these

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

In a ship there are 1200 passengers. 18 per cent of the total number of passengers is from Britain. Two-fifth of the total number of passengers is from South Africa 6 per cent of the total number of passengers is from Madagascar. Remaining number of passengers is from India. 25 per cent of the number of passengers from Britain is female. Half the number of passengers from South Africa are male. There is no female passenger from Madagascar. Two-third of the number of passengers from India are females.

46. What is the respective ratio between the number of passengers from Madagascar, number of female passengers from South Africa and the total number of passengers from India ?
    (A) 2 : 5 : 18   (B) 3 : 10 : 18
    (C) 3 : 11 : 18   (D) 2 : 18 : 5
    (E) None of these

47. Number of male passengers from South Africa is **approximately** what percentage of the total number of passengers from Britain ?
    (A) 111   (B) 115
    (C) 120   (D) 125
    (E) 131

48. What is the average number of male passengers from all the four countries ?

(A) 154·5       (B) 164·5

(C) 145         (D) 164

(E) None of these

49. What is the difference between the number of male passengers from Madagascar and the number of male passengers from India ?

(A) 64          (B) 82

(C) 74          (D) 72

(E) None of these

50. What is the total nubmer of male passengers from Britain and female passengers from India together ?

(A) 340         (B) 420

(C) 350         (D) 460

(E) None of these