IAS Prelims General Studies Paper 1993 (Part 7 of 10)

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1. If ABRA-CADABRA is 1,2, 9,1 – 3, 11, 2,9, 1, HOCUS-POCUS will be

    a. 5, 6,3, 7,8 – 0, 6,3, 7,8

    b. 8, 16, 5,21, 19 – 16,15, 5,21; 19

    c. 8, 16, 5,21, 19 – 15, 16,5, 21,19

    d. 5, 6,3, 7,8 – 6, 5,3, 8,7

2. Four persons Alok, Bhupesh, Chandu and Dinesh have a total of ₹ 100/-among
   themselves. Alok and Bhupcsh bctven them have as much money as Chandu and Dinesh
   between them but AIOIC has more money Than Bhupesh, and Chandu has only half the
   money that Dincsh has. Alok has in fad ₹ 5/-more than Dinesh. Who has the most
   money?

    a. Alok

    b. Bhupesh

    c. Chandu

    d. Dinesh

3. Given below is the performance of two learners A and B: Which one of the following
   can be deduced from the graph?

    a. The learning task was difficult

    b. The learning task was easy

    c. B learned faster than A throughout the task

    d. A learned faster than B throughout the task

4. Consider the Venn diagram given below: The numbers in the Venn diagram are persons
   reading the newspapers indicated. The diagram is drawn after surveying 50 persons.In
   a population of 10,000 how many can be expected to read at least two newspapers?
   Choose the correct answer from the codes given below:

    a. 5000

    b. 6250

    c. 6000

    d. 5400

5. In an examination, every candidate took physics or mathematics or both. 65.8% took physics and 59.2% took mathematics. The total number of candidates was 2000. How many took both mathematics and physics?

   a. 750

   b. 700

   c. 550

   d. 500

6. A point is selected at random inside a rectangle and perpendiculars are drawn on each side from the point. The sum of these perpendiculars is 24 cm. If the length of the rectangles is 3 times the width, the perimeter of the rectangle will be

   a. 36cm.

   b. 42cm.

   c. 24cm.

   d. 48 cm.

7. In a group of six women there are four dancers, four vocal musicians, one actress and three violinists. Girija and Vanaja are among the violinists while Jalaja and Shailaja do not know how to play on the violin. Shailaja and Tanuja are among the dancers. Jalaja, Vanaja, Shailaja and Tanuja are all vocal musicians and two of them are also violinists. If Pooja is an actress who among the following is both a dancer and a violinist?

   a. Jalaja

   b. Shailaja

   c. Tanuja

   d. Pooja

8. If you are the ninth person in the queue starting from either end the number of persons in the queue is

   a. 10

   b. 15

   c. 17

   d. 19

9. A father is now three times as old as his son. Five years back, he was four times as old as his son. The age of the son is

   a. 12

   b. 15

   c. 18

   d. 20

10. If the product of two numbers is 320 and their ratio is 1: 5, what is the difference between the squares of these two numbers?

a. 1024

b. 1356

c. 1536

d. 1635

11. Four equal circles are described at the four corners of a square so that each touches two of the others as shown in the above figure. The area enclosed by the circumferences of the circles (shaded area in the figure) is l3 13 5 7 sq. Cm. Find the radius of the circles (Assume 22 7 1 =)

a. 4 cm.

b. 2.5 cm.

c. 7.5 cm.

d. 6 cm.

12. A rectangular sheet of aluminum foil measuring 5 cm. By 10 cm. Is rolled into a cylinder of height 10cm. If the cost of painting the cylinder is ₹ 2/-per sq. Cm, then he cost of painting the outer surface of the cylinder will be

a. ₹ 400/-

b. ₹ 200/-

c. ₹ 150/-

d. ₹ 100/-

13. In a single throw of a pair of dice what is the probability of getting a sum of 8?

a. 8 12

b. 1 36

c. 4 36

d. 5 36

14. A lottery system has ticket numbers with eight digits. There are ten first prizes of ₹ 1.00 lakh each, one hundred second prizes of ₹ 10,000 each and one thousand third prizes of ₹ 1,000 each. At the draw of lots an eight digit number is generated by choosing for each digit from left to right a random number in the range of 0 to 9. Any one who has a ticket with the first two digits (from left to right) matching the chosen number gets a first prize, and soon. One individual purchases a large number of tickets at a discounted price of Re. 0.75 each. For how much money should he purchase tickets to achieve a 10% chance of winning a third prize?

a. ₹ 10,000

b. ₹ 75,000

c. ₹ 1,00, 000

d. ₹ 17,500

15. The average salary of skilled employees in a firm is ₹ 520 and that of the unskilled employees is ₹ 420. If the average salary of both groups of employees is ₹ 500, then the percentage of skilled employees in the firm is

   a. 50

   b. 20

   c. 80

   d. 70