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**SSC**

**MULTI TASKING**

**(NON-TECHNICAL) STAFF**

**RECRUITMENT EXAM.**

**Solved Papers**



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**S.S.C.**  
**Multi-Tasking (Non-Technical) Staff**  
**Recruitment Exam.**  
**(First Shift)**  
**Solved Paper**

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2014

(Held on February 23, 2014)

**Part – A**  
**General Intelligence and Reasoning**

**Directions**—In (Q. 1–4), select the related word/letters/numbers from the given alternatives.

1. Furniture : Carpenter : : Statue : ?  
(A) Sculptor (B) Engineer  
(C) Painter (D) Potter
2. Snake : Reptile : : Bat : ?  
(A) Ball (B) Cricket  
(C) Mammal (D) Bird
3. ABC : ZYX : : ? : XYZ  
(A) BCA (B) XZY  
(C) ACB (D) CBA
4. 18 : 27 ; : 60 : ?  
(A) 72 (B) 81  
(C) 90 (D) 100

**Directions**—In (Q. 5–7), select the one which is different from the other three alternatives.

5. (A) Milk (B) Cheese  
(C) Butter (D) Curd
6. (A) FEDC (B) ZYWX  
(C) UTSR (D) GFED
7. (A) 35 – 26 (B) 47 – 38  
(C) 36 – 27 (D) 24 – 29
8. Which one of the given responses would be a meaningful order of the following in descending order ?  
1. Belt 2. Shirt  
3. Hat 4. Socks  
(A) 3, 2, 4, 1 (B) 3, 2, 1, 4  
(C) 1, 4, 3, 2 (D) 2, 3, 4, 1

**Directions**—In (Q. 9 and 10), a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

9. EV, GT, JQ, ?  
(A) PQ (B) LN  
(C) OM (D) NM
10. 95, 90, 80, 65 ?  
(A) 55 (B) 45  
(C) 75 (D) 85
11. Pointing to an old man, Kunal said, “His son is my son’s uncle.” How is the old man related to Kunal ?  
(A) Brother (B) Uncle  
(C) Father (D) Nephew
12. From the given alternatives select the word which cannot be formed using the letters of the given word.  
COSMOPOLITAN  
(A) COAT (B) SPOT  
(C) POLE (D) CAST
13. In a certain code TWINKLE is written as ELKNIWT. How can TWILIGHT be written in that code ?  
(A) TGHILIWT (B) THGILIWT  
(C) TIGHLIWT (D) TLIGHIWT
14. Which of the following interchange of signs would make the equation correct ?  
 $(15 \times 5) + 2 \div 3 = 9$   
(A) + and – (B) ÷ and –  
(C) + and × (D) ÷ and ×
15. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.  
 $5 \times 7 \times 3 = 357, 8 \times 4 \times 2 = 284, 6 \times 1 \times 8 = ?$   
(A) 168 (B) 681  
(C) 816 (D) 861
16. Select the missing number from the given responses.  
144 169 121  
100 81 64  
2 4 ?

- (A) 2 (B) 5  
(C) 3 (D) 6

17. Mainak walks 6 km to South, then he walks 4 km turning to his right, Again he turns to his right and walks 6 km. After this, turning to his left he walks 6 km. In which direction is he now from the starting point ?

- (A) North (B) South  
(C) West (D) East

18. Two statements are given, followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions definitely follows from the given statements. Indicate your answer.

**Statements :** All men are fathers.  
All fathers are brother.

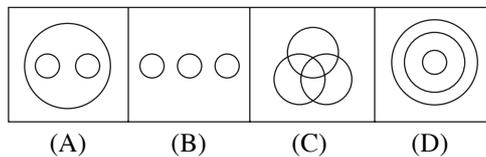
**Conclusions :** I. All men are brothers.  
II. Some men are not brothers.

- (A) Only conclusion I follows  
(B) Only conclusion II follows  
(C) Both conclusions I and II follow  
(D) Neither conclusion I nor II follows

19. Five friends are sitting in a row. Ramesh is to the immediate right of Hari. Inder is sitting between Ramesh and Shyam. Gopal is to the immediate left of Hari. Who is sitting in the middle ?

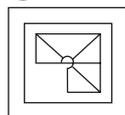
- (A) Hari (B) Inder  
(C) Ramesh (D) Shyam

20. Identify the diagram that best represents the relationship among the classes given below :  
Brothers, Sisters, Families.

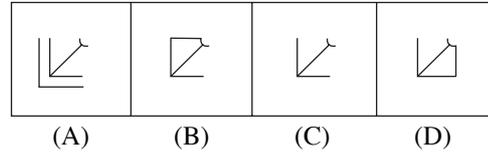


21. Which answer figure will complete the pattern in the question figure ?

**Question Figure :**



**Answer Figures :**

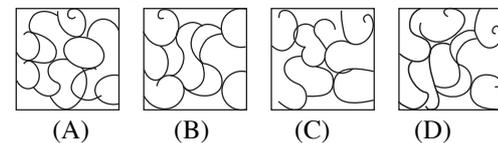


22. From the given answer figures, select the one in which the question figure is hidden/ embedded.

**Question Figure :**

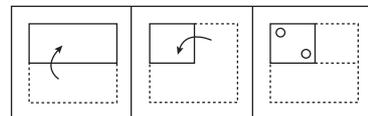


**Answer Figures :**

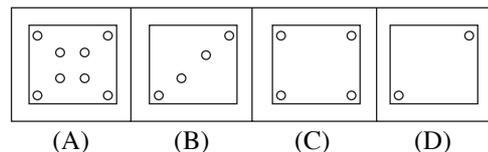


23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

**Question Figures :**



**Answer Figures :**

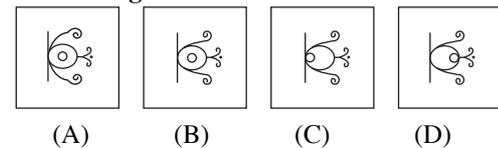


24. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure ?

**Question Figure :**



**Answer Figures :**



25. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows and of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'B' can be represented by 13, 31, 44, etc., and 'N' can be represented by 58, 75, 96, etc. Similarly, you have to identify the set for the word given below :

ASHA

Matrix I					Matrix II						
	0	1	2	3	4		5	6	7	8	9
0	B	S	U	Q	H	5	E	K	A	N	C
1	S	U	H	B	Q	6	K	A	C	E	N
2	Q	H	B	S	U	7	N	C	E	K	A
3	U	B	Q	H	S	8	A	E	N	C	K
4	H	Q	S	U	B	9	C	N	K	A	E

- (A) 85, 11, 40, 85      (B) 79, 01, 33, 98  
 (C) 66, 10, 21, 88      (D) 57, 20, 11, 57

**For Visually Handicapped Candidates Only**

20. Arrange the following words as per the other in the dictionary —
- Spherical
  - Sphinx
  - Sphincter
  - Sphere
- (A) 4, 1, 3, 2      (B) 2, 3, 1, 4  
 (C) 4, 3, 2, 1      (D) 1, 2, 3, 4
21. Given below are capital letters in the first line and numbers in the second line. Numbers and letters are codes for each other. Choose the correct code for given letters.
- M N A E I K S T P R  
 0 1 2 3 4 5 6 7 8 9
- Given letters : TIPPER  
 (A) 748389      (B) 748839  
 (C) 748938      (D) 743898
22. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
- \_ \_ N A B \_ \_ B N A \_ N
- (A) A N B A N      (B) A A B N A  
 (C) A B N A B      (D) A B A N A

23. Find out the set among the four sets which is like the given set of numbers.  
 81, 67, 53  
 (A) 90, 76, 64      (B) 75, 61, 47  
 (C) 43, 29, 12      (D) 65, 50, 36
24. Ram is taller than Shyam. Ram is shorter than Vinod. Shyam is taller than Pramod. Who is the shortest ?  
 (A) Pramod      (B) Ram  
 (C) Shyam      (D) Vinod
25. The age of a father is thrice that of his son. If the sum of their ages is 48 years, what is the age of the father ?  
 (A) 30 years      (B) 32 years  
 (C) 36 years      (D) 40 years

**Part – B  
 Numerical Aptitude**

26. The sum of the squares of the digits of the largest prime number in two digits is—  
 (A) 97      (B) 118  
 (C) 148      (D) 130
27. Find the number lying between 900 and 1000 which when divided by 38 and 57 leaves in each case a remainder 23.  
 (A) 935      (B) 962  
 (C) 912      (D) 926
28. Raju can do a piece of work in 20 days, while Ram can do it in 30 days. If both of them work at it together, then the number of days in which they will be able to finish the work is—  
 (A) 50 days      (B) 25 days  
 (C) 12 days      (D) 10 days
29. A is twice as good a workman as B and together they finish a piece of work in 20 days. In how many days will A alone finish the work ?  
 (A) 40 days      (B) 35 days  
 (C) 30 days      (D) 25 days
30. A spherical ball of lead of radius 14 cm is melted and recast into spheres of radius 2 cm. The number of the small spheres is —  
 (A) 343      (B) 450  
 (C) 300      (D) 525

31. Length of each equal side of an isosceles triangle is 10 cm and the included angle between those two sides is  $45^\circ$ . Find the area of the triangle.  
 (A)  $5\sqrt{2}$  cm<sup>2</sup> (B)  $15\sqrt{2}$  cm<sup>2</sup>  
 (C)  $25\sqrt{2}$  cm<sup>2</sup> (D)  $35\sqrt{2}$  cm<sup>2</sup>
32. Rita purchased a car with a market price of ₹ 2,10,000 at a discount of 5%. If the sales tax charged is 10%, find the amount she has to pay.  
 (A) ₹ 2,19,450 (B) ₹ 2,20,000  
 (C) ₹ 2,19,500 (D) ₹ 2,19,000
33. A shopkeeper sold an item for ₹ 1,800 at a discount of 10% and gained ₹ 200. Had he not given the discount, his gain would be—  
 (A) ₹ 180 (B) ₹ 200  
 (C) ₹ 300 (D) ₹ 400
34. A cycle merchant allows 25% discount on the marked price of the cycles and still makes a profit of 20%. If he gains ₹ 360 over the sale of one cycle, find the marked price of the cycle.  
 (A) ₹ 2,880 (B) ₹ 2,900  
 (C) ₹ 2,920 (D) ₹ 2,800
35. If  $2x = 3y = 4z$ , find  $x : y : z$ .  
 (A) 4 : 3 : 2 (B) 2 : 3 : 4  
 (C) 3 : 4 : 6 (D) 6 : 4 : 3
36. The ratio of the ages of A, B and C is 5 : 8 : 9. If the sum of the ages of A and C is 56 years, the age of B will be—  
 (A) 21 years (B) 32 years  
 (C) 12 years (D) 23 years
37. A box contains 280 coins of one rupee, 50 paise and 25 paise. The values of each kind of coin are in the ratio of 8 : 4 : 3. The number of one rupee coins will be—  
 (A) 60 (B) 80  
 (C) 52 (D) 81
38. The average height of 8 students is 152 cm. Two more students of heights 144 cm and 155 cm join the group. What is the new average height?  
 (A) 151 cm (B) 150.5 cm  
 (C) 151.5 cm (D) 152.5 cm
39. The batting average of a cricket player for 30 innings is 40 runs. His highest score exceeds his lowest score by 100 runs. If these two innings are not included, the average of the remaining 28 innings is 38 runs. The lowest score of the player is—  
 (A) 12 (B) 15  
 (C) 18 (D) 20
40. Aman sells two watches at ₹ 99 each. On one he gets 10% profit and on the other he loses 10%. His net gain or loss per cent is—  
 (A) profit of 10% (B) loss of 10%  
 (C) loss of 1% (D) no profit no loss
41. If a person lost 8% by selling an article for ₹ 1,035, he bought the article for—  
 (A) ₹ 1,105 (B) ₹ 1,125  
 (C) ₹ 1,135 (D) ₹ 1,152
42. A bookseller sells a book at a profit of 10%. If he had bought it at 4% less and sold it for ₹ 6 more, he would have gained  $18\frac{3}{4}\%$ . The cost price of the book is—  
 (A) ₹ 150 (B) ₹ 155  
 (C) ₹ 160 (D) ₹ 170
43. The length and breadth of a rectangle are 20 m and 15 m respectively. If length is increased by 20% and the breadth by 30%, the percentage increase in its area is—  
 (A) 50% (B) 52%  
 (C) 54% (D) 56%
44. A sales representative will receive a 15% commission on a sale of ₹ 2,800. If he has already received an advance of ₹ 150 on that commission, the remaining amount of commission is—  
 (A) ₹ 120 (B) ₹ 270  
 (C) ₹ 320 (D) ₹ 420
45. A railway train 100 metres long is running at the speed of 30 km/hr. In what time does it pass a man standing near a line?  
 (A) 12 seconds (B) 15 seconds  
 (C) 10 seconds (D) 13 seconds
46. Raju has to cover a distance of 240 km in 4 hours. If he covers one-third of the journey in  $\frac{2}{7}$ th time, what is his speed at the beginning of the journey?

- (A) 60 km/hr (B) 65 km/hr  
(C) 70 km/hr (D) 75 km/hr

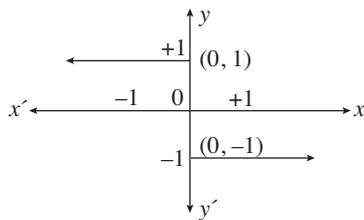
47. X borrowed some money from a source at 8% simple interest and lent it to Y at 12% simple interest on the same day and gained ₹ 4,800 after 3 years. The amount X borrowed, in ₹, is—

- (A) 1,20,000 (B) 40,000  
(C) 42,000 (D) 60,000

48. Ram borrows a certain sum of money at 8% per annum simple interest and Rahim borrows ₹ 2,000 at 5% per annum simple interest. If the interest at the end of 3 years is equal, then the amount borrowed by Ram is—

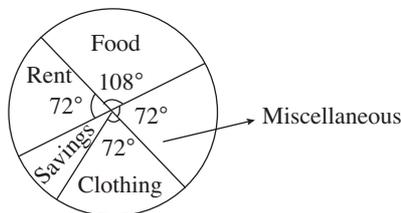
- (A) ₹ 2,000 (B) ₹ 1,000  
(C) ₹ 1,250 (D) ₹ 1,500

49. The equation of the graph shown here is—



- (A) when  $x < 0, y = +1$   
when  $x > 0, y = -1$   
(B) when  $x < 0, y = -1$   
when  $x > 0, y = +1$   
(C) when  $x \leq 0, y = +1$   
when  $x > 0, y = -1$   
(D) when  $x < 0, y = +1$   
when  $x \geq 0, y = -1$

50. Using the pie-chart answer the following :



If the annual income of the family is ₹ 60,000, then the savings is—

- (A) ₹ 3,000 (B) ₹ 6,000  
(C) ₹ 7,500 (D) ₹ 9,000

### For Visually Handicapped Candidates Only

49. Three different containers contain 496 litres, 403 litres, 713 litres of mixtures of milk and water respectively. What biggest measurer can measure all the different quantities exactly ?

- (A) 11 litres (B) 17 litres  
(C) 31 litres (D) 41 litres

50. A piece of work can be completed in 18 days if A and B work together, in 24 days if B and C work together and in 36 days if A and C work together. The number of days required if all the three work together is—

- (A) 10 (B) 16  
(C) 14 (D) 12

### Part – C

### General English

**Directions**—In (Q. 51–60), some parts of the sentences have errors and some are correct. Find out which part of a sentence has an/error and blacken the oval (●) corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

51. On a rainy day / I enjoy to watch TV / with a hot cup of tea. (A) (B) No Error (C) (D)
52. She told me / that she will come to my place / in the evening. (A) (B) No Error (C) (D)
53. A pair of two birds / were seen flying / high in the sky over the city at night. (A) (B) No Error (C) (D)
54. His office is at / an arm's length from / the house he inherited from his ancestors (A) (B) No Error. (C) (D)
55. I don't understand / how could she / treat him so badly. (A) (B) No Error. (C) (D)

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