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RECRUITMENT TEST 8.5.2011

The common test for recruitment of Inspectors (Grade-II), Sr. Assistants, Stenographer, Jr. Scale Steno, Clerks. Food & Civil Supplies Department, Punjab was held on 8.5.2011. The Question Booklet is hereby displayed in the following pages along with the Answer Key.

The objections if any to the correctness of the Question Booklet and the Answer Key may be pointed out in writing to the Director, Food, Civil Supplies & Consumer Affairs Punjab, Jeewan Deep Building, Sector 17, Chandigarh by 19.5.2011. No objection will be entertained after 19.5.2011. The objection if any will be reffered to the experts and the result will be prepared accordingly.

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RECRUITMENT TEST – MAY, 2011

1. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨੂੰ ਲਿਖਣ ਲਈ ਕਿਹੜੀ ਲਿੱਪੀ ਦੀ ਵਰਤੋਂ ਕੀਤੀ ਜਾਂਦੀ ਹੈ :
   (A) ਦੇਵਨਾਗਰੀ (B) ਗੁਰਮੁਖੀ
   (C) ਰੋਮਨ (D) ਸ਼ਾਹਮੁਖੀ
2. ਗੁਰਮੁਖੀ ਵਰਨਮਾਲਾ ਵਿਚ ਪੈਰ ਬਿੰਦੀ ਵਾਲੇ ਅੱਖਰ (ਸ਼, ਖ਼, ਗ਼) ਕਿਹੜੀ ਭਾਸ਼ਾ ਵਿੱਚੋਂ ਲਏ ਗਏ ਹਨ :
   (A) ਅੰਗਰੇਜ਼ੀ (B) ਸੰਸਕ੍ਰਿਤ
   (C) ਹਿੰਦੀ (D) ਫ਼ਾਰਸੀ
3. ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਸ਼ੁੱਧ ਸ਼ਬਦ ਚੁਣੋ :
   (A) ਕੇਹੜਾ (B) ਕੀਹੜਾ
   (C) ਕਿਹੜਾ (D) ਕੈਹੜਾ
4. ਕਿਹੜਾ ਸ਼ਬਦ 'ਦੂਰ' ਸ਼ਬਦ ਦਾ ਵਿਰੋਧੀ ਨਹੀਂ ਹੈ :
   (A) ਨੇੜੇ (B) ਪਾਸ
   (C) ਸਾਹਮਣੇ (D) ਕੋਲ
5. 'ਓਪਰਾ' ਸ਼ਬਦ ਦਾ ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਚੁਣੋ :
   (A) ਬੇਗਾਨਾ (B) ਆਪਣਾ
   (C) ਵਾਕਫ਼ (D) ਦੋਸਤ
6. ਨਾਂਵ ਕਿੰਨੇ ਪ੍ਰਕਾਰ ਦੇ ਹੁੰਦੇ ਹਨ :
   (A) ਅੱਠ (B) ਸੱਤ
   (C) ਪੰਜ (D) ਚਾਰ
7. ਵਸਤੂ-ਵਾਚਕ ਨਾਂਵ ਚੁਣੋ :
   (A) ਦੁੱਧ (B) ਭੀੜ
   (C) ਰਾਮ (D) ਮੁੰਡਾ
8. ਵਾਕ ਵਿਚ ਨਾਂਵ ਦੀ ਥਾਂ ਵਰਤੇ ਜਾਣ ਵਾਲੇ ਸ਼ਬਦ ਨੂੰ ਕੀ ਕਿਹਾ ਜਾਂਦਾ ਹੈ :
   (A) ਪੜਨਾਂਵ (B) ਵਿਸ਼ੇਸ਼ਣ
   (C) ਖਾਸ ਨਾਂਵ (D) ਨਾਂਵ
9. ਪ੍ਰਸ਼ਨ-ਵਾਚਕ ਪੜਨਾਂਵ ਚੁਣੋ :
   (A) ਉਹ (B) ਤੁਸੀਂ
   (C) ਕਿਹੜਾ (D) ਮੈਂ
10. ਵਿਸ਼ੇਸ਼ਣ ਕਿੰਨੀ ਪ੍ਰਕਾਰ ਦੇ ਹੁੰਦੇ ਹਨ :
    (A) ਦੋ (B) ਅੱਠ
    (C) ਪੰਜ (D) ਦਸ
11. ਕਿਰਿਆ ਚੁਣੋ :
    (A) ਖੇਡਦੇ (B) ਲੜਕੀ
    (C) ਕੌਣ (D) ਜੰਗਲ
12. ਪੰਜਾਬ ਦੀ ਦਫ਼ਤਰੀ ਭਾਸ਼ਾ ਕਿਹੜੀ ਹੈ :
    (A) ਹਿੰਦੀ (B) ਪੰਜਾਬੀ
    (C) ਅੰਗਰੇਜ਼ੀ (D) ਉਰਦੂ
13. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਜਨਮਦਾਤੀ ਭਾਸ਼ਾ ਹੈ :
    (A) ਉਰਦੂ (B) ਹਿੰਦੀ
    (C) ਵੈਦਿਕ ਸੰਸਕ੍ਰਿਤ (D) ਪਾਲੀ

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English (Objective Type/Multiple Choice)

Directions (Question no. 14-18) : Mark the correct form of Complex sentences which have been converted from the given Compound sentences out of the four choices given in each question :

14. Spare the rod and spoil the child :
(A) Having spared the rod, he spoiled the child.
(B) He spared the rod, and therefore, he spoiled the child.
(C) If you spare the rod, you will spoil the child.
(D) If you would spare the rod, you will spoil the child.

15. She put on her hat and went outside :
(A) If she put her hat, she will go outside.
(B) After she put her hat, she went outside.
(C) Supposing she put her hat, she went outside.
(D) Had she put her hat, she would go outside.

16. Do this, or you will be punished :
(A) Unless you do this, you will be punished.
(B) You would be punished because you did this.
(C) Having done this, you had been punished.
(D) After you had done this, you would be punished.

17. Sarita is poor, but contented :
(A) Sarita was poor and she was contented.
(B) Unless Sarita is poor, she is contented.
(C) Provided Sarita is poor, she is contented.
(D) Though Sarita is poor, she is contented.

18. We will win or die :
(A) Having won, we would die.
(B) If we do not win, we will die.
(C) Unless we win, we will not die.
(D) After we win, we will die.

Directions (Question no. 19-25) : Mark the correct meaning of the given idioms and phrases out of the four choices :

19. To burn the candle at both ends :
(A) to overtax one's energies.
(B) to be proud of one's wealth.
(C) to cause injury to others.
(D) to attain success.

20. To bring home to :
(A) to bring something home.
(B) to convince someone.
(C) to criticize someone.
(D) to feel at home.

21. To be let off :
(A) to run away.
(B) to disappear.
(C) to be punished leniently.
(D) to deceive someone.

22. To lay by :
(A) to be dismissed from one's job.
(B) to dismiss someone from his/her job.
(C) to lie down.
(D) to save for future needs.

23. To put out :
(A) to exting ish.
(B) to preserve something.
(C) to nurture something.
(D) to be punished.

24. To stand well with :
(A) to assume airs.
(B) to be well thought of by someone.
(C) to be humble.
(D) to attain height.

25. To be beside the mark :
(A) to commit a blunder (B) to insult others
(C) to be irrelevant (D) to ignore the mistakes

26. Which of the following country is area-wise smaller than the Punjab ?
(A) Iceland (B) Ireland
(C) Sri Lanka (D) Switzerland

27. Name the first ever Sikh and non-Chinese to become the Singapore Army chief.
(A) Kashmira Singh Gill (B) Mancharan Singh Gill
(C) Mota Singh (D) Ravinder Singh

28. Where is the Sobha Singh Art Gallery situated ?
(A) Amritsar (B) Andretta, Kangra
(C) Kapurthala (D) Naggar, Manali

29. Who built the Sheesh Mahal (Palace of Mirrors) in Patiala ?
(A) Maharaja Dalip Singh (B) Maharaja Narinder Singh
(C) Maharaja Yadvendra Singh (D) Maharaja Sher Singh.

30. How many alphanumeric numbers make up a Permanent Account Number (PAN) ?
(A) Eight (B) Nine
(C) Ten (D) Eleven

31. For which crop does HI 1531 provide an improved productivity and profitability under limited input conditions ?
(A) Maize (B) Rice
(C) Sugarcane (D) Wheat

32. Which Act made Punjabi in Gurmukhi script the sole official language of the Punjab State ?
(A) Punjab (State) Language Act 1947 (B) Punjab (State) Language Act 1948
(C) Punjab (State) Language Act 1966 (D) Punjab (State) Language Act 1967

33. Which is the correct order of 1-Amritsar, 2-Bathinda, 3- Jalandhar, and 4- Ludhiana, when arranged in the descending order of their population ?
(A) 1, 4, 2, 3 (B) 3, 4, 1, 2
(C) 4, 1, 3, 2 (D) 4, 3, 2, 1

34. What is the base value of Sensex ?
(A) 100 on April 1, 1959 (B) 100 on April 1, 1969
(C) 100 on April 1, 1979 (D) 100 on April 1, 1989

35. What was India's per capita income during 2009-10 ?
(A) Rs 40,605 (B) Rs 46,492
(C) Rs 50,065 (D) Rs 56,942

36. How many states of India share border with Myanmar ?
(A) 2 (B) 3
(C) 4 (D) 5

37. Which one of the following countries celebrates its independence day on August 15 ?
(A) South Africa (B) South Korea
(C) Sri Lanka (D) Pakistan

38. 'Light flyweights' is limited to the boxers weighing less than :
(A) 38 kilograms (B) 44 kilograms
(C) 48 kilograms (D) 54 kilograms

39. Which one of the following statements is most suited to reflect the conduct of 15th Census of India ?
(A) It was carried out in two phases, to cover 640 districts and 5924 sub-districts
(B) It was carried out in three phases, to cover 634 districts and 5492 sub-districts
(C) It was carried out in two phases, to cover 624 districts and 5924 sub-districts
(D) It was carried out in three phases, to cover 640 districts and 5492 sub-districts

40. Which one of the following statements is true ?
(A) India is world's largest producer of rice and second-largest producer of wheat
(B) India is world's largest producer of wheat and rice
(C) India is world's largest producer of wheat and second-largest producer of rice
(D) India is world's second-largest producer of wheat and rice

41. Which one of the following statements is most suited to reflect the population scenario in the world ?
(A) India alone accounts for 17.5 per cent of the world population while China accounts for 19.4 per cent
(B) India alone accounts for 15.7 per cent of the world population while China accounts for 19.4 per cent
(C) India alone accounts for 19.4 per cent of the world population while China accounts for 21.4 per cent
(D) India alone accounts for 20.7 per cent of the world population while China accounts for 21.4 per cent

42. Which one of the following awards is conferred only to the citizen of the Commonwealth of Nations, Ireland, or Zimbabwe ?
(A) Man Booker Prize for Fiction (B) Joseph Pulitzer Prize
(C) Dayton Literary Peace Prize (D) Bollingen Prize

43. The recently released National Security Index rates India as the :
(A) fifth most-powerful nation in the world (B) fourth most-powerful nation in the world
(C) seventh most-powerful nation in the world (D) sixth most-powerful nation in the world

44. Which one of the following statements is false ?
(A) In India, the Army Day is celebrated on January 15.
(B) The World Heritage Day is observed on April 18.
(C) The World Population Day is observed on July 11.
(D) In India, the National Girl Child Day is celebrated on November 19.

45. Match List I (Centre) with List II (Place)

List I	List II
1. Satish Dhawan Space Centre	a. Balasore
2. Vikram Sarabhai Space Centre	b. Sriharikota
	c. Thiruvananthapuram

(A) 1-a, 2-b (B) 1-b, 2-c
(C) 1-a, 2-c (D) 1-c, 2-b

46. Match List I (Title) with List II (Person)

List I	List II
1. Amar Chitra Katha	a. Anant Pai
2. Matters of Discretion	b. Inder Kumar Gujral
	c. Karan Singh

(A) 1-a, 2-b (B) 1-b, 2-c
(C) 1-c, 2-b (D) 1-a, 2-c

47. Match List I (Person) with List II (Association)

List I	List II
1. Haroon Lorgat	a. International Cricket Council
2. Leandro Negre	b. International Federation of Association Football
	c. International Hockey Federation

(A) 1-a, 2-b (B) 1-b, 2-c
(C) 1-b, 2-a (D) 1-a, 2-c

48. Match List I (Person) with List II (Association)

List I	List II
1. Julian Assange	a. Asian Development Bank
2. Tim Berners-Lee	b. WikiLeaks
	c. World Wide Web Consortium

(A) 1-a, 2-b (B) 1-b, 2-c
(C) 1-b, 2-a (D) 1-a, 2-c

49. Match List I (Organization) with List II (Year of establishment)

List I	List II
1. Telecom Regulatory Authority of India	a. 1995
2. Unique Identification Authority of India	b. 1997
	c. 2009
	d. 2010

(A) 1-a, 2-c (B) 1-b, 2-c
(C) 1-b, 2-d (D) 1-a, 2-d

50. Which of the following statements are true ?
1. Denier is a unit of measure for the linear mass density of fibers
2. Langley is a unit of energy distribution over area
3. Sievert is the Unit used to measure purity of silver
(A) 1 and 2 (B) 2 and 3
(C) 3 and 1 (D) 1, 2 and 3

51. Which is the odd number in the following sequence ?
1, 5, 13, 17, 25, 29, 36, 41
(A) 25 (B) 27
(C) 36 (D) 41

52. What would be next term in the following series ?
3, 5, 8, 12, 20, . .
(A) 28 (B) 32
(C) 35 (D) 42

53. What would be next term in the following series ?
2, 5, 10, 17, 26, . .
(A) 34 (B) 37
(C) 39 (D) 41

54. What would be next term in the following series ?
1, 3, 6, 11, 18, . .
(A) 25 (B) 27
(C) 29 (D) 31

55. What would be next term in the following series ?
2, 6, 12, 20, 30, . . .
(A) 40 (B) 41
(C) 42 (D) 43

56. What would be next term in the following series ?
1, 8, 9, 64, 25, . .
(A) 49 (B) 81
(C) 156 (D) 216

57. What could be a part of the following set of numbers ?
1201, 2121, 3142, 4253, 5342
(A) 1317 (B) 2315
(C) 2573 (D) 3456

58. What could be a part of the following set of numbers ?
32415, 13224, 35268, 21033, 40224
(A) 26445 (B) 34258
(C) 16347 (D) 42339

59. What would replace 'Z' in the following sequencing ?

5	6	7
8	9	1
2	3	4
1	1	Z

(A) 1 (B) 2
(C) 3 (D) 4

60. What would replace 'Z' in the following sequencing ?

2	3	4
7	6	5
8	7	1
3	0	Z
5	4	3

(A) 1 (B) 2
(C) 4 (D) 7

61. Find the missing letters in the following sequence.
a_b_aaa_bbaa
(A) aab (B) aba
(C) bab (D) bba

62. What is the smallest number for which the sum of four consecutive counting numbers is 158 ?
(A) 31 (B) 36
(C) 37 (D) 38

63. How many 2-digit numbers could be made out of 0, 1, 2 when repetitions are allowed ?
(A) 4 (B) 6
(C) 9 (D) 12

64. How many 2-digit numbers could be made out of 0,1,2,3,4,5,6,7,8,9 when repetitions are not allowed ?
(A) 100 (B) 72
(C) 81 (D) 90

65. If $5 - [2.8 - \{3.5 - (1 - X)\}] = 6$, Then value of X is :
(A) 2.3 (B) 1.5
(C) 1.3 (D) 2.5

66. What is 20 paise of Rs 6.20 ?
(A) Rs. 31 (B) 31
(C) Rs. 1/31 (D) 1/31

67. A mixture of 70 litres of milk and water contains 10 per cent of water. How much water must be added to make water 37 per cent of the resulting mixture ?
(A) 10 litres (B) 20 Litres
(C) 30 litres (D) 40 litres

68. By selling a pen for Rs. 75, a man would lose 4 per cent. For about what amount would he sell the pen to gain 20 per cent ?
(A) Rs. 94 (B) Rs. 90
(C) Rs. 92 (D) Rs. 84

69-71. Study the following table and answers the questions :
Exports in million Rs.

Year	Country 1	Country 2	Country 3	Country 4
2008	1600	6200	3400	4800
2009	2400	7200	4800	5600
2010	4600	8000	6400	6200

69. What was the maximum increase in exports between 2009 and 2010 in million Rs. ?
(A) 2000 (B) 2200
(C) 2300 (D) 2500

70. What was the average increase in export between 2008 and 2009 ?
(A) 9000 (B) 1000
(C) 1100 (D) 1200

71. What was the minimum percent increase in the exports during 2009-10 ?
(A) 1.11 (B) 3.33
(C) 9.17 (D) 10.7

72. An officer can complete a task in x hours. After 3 hours, he was called away. What fractional part of the assignment was left incomplete ?
(A) $2/3\,x$ (B) $3/x$
(C) $(3-x)/x$ (D) $(x-3)/x$

73. There are three manufacturing wings and two packing wings. An officer wishes to undertake surprise visits in such a way that he visits no two of the manufacturing wings one after the other. In how many ways he could plan his visits ?
(A) 6 (B) 12
(C) 18 (D) 24

74. Two candidates contested an election. Five per cent of the voters did not cast votes. The successful candidate won by 51,00 votes, securing 48 per cent of the total votes. How many votes were cast for the elected candidates ?
(A) 239700 (B) 244800
(C) 484500 (D) 510000

75. The average of 200 observations was found to be 34. In the course of scrutiny it was found that during the data entry 23 was entered as 32 and 36 was entered as 26. Later it was also found that 18 was entered as 19. What is the correct average ?
(A) 31 (B) 32
(C) 33 (D) 34

76. In doing a division of a question with zero remainder, a person took 6 as divisor instead of 9. The quotient obtained by him was 12. The correct quotient is :
(A) 6 (B) 8
(C) 9 (D) 12

77. There are five officers having 7, 9, 11, 13 and 14 inspectors respectively working under them. Last year, each of them discovered that every inspector had exactly the same number of cases. If the third inspector gives one file to the first, and the fifth gives three to each of the second and the fourth, they would all have exactly the same number of cases. What could be the number of cases per inspector with the third and fourth inspectors ?
(A) 9, 11 (B) 11, 9
(C) Data not adequate (D) Data not consistent

78. Five officers are working on a project. On the progress chart it was found that Jaswant was behind Harshinder. Rajinder was just ahead of Gurdeep. Kuwant was between Gurdeep and Harshinder. Who was the second ?
(A) Harshinder (B) Gurdeep
(C) Kuwant (D) Rajinder

79. If 1st January 2011 is Saturday, then which other month in 2011 will also have its 1st day as Saturday again ?
(A) April (B) June
(C) August (D) October

80. If South East is changed to North East, then West will become :
(A) South West (B) East
(C) South (D) North West

81. What is the number whose double is greater than its half by 6 ?
(A) 2 (B) 4
(C) 8 (D) 12

82. What percent is 1% of 2% ?
(A) 5% (B) 0.05%
(C) 0.005% (D) None of the above

83. For departmental promotions, a three stage evaluation process was worked on. As many as 120 employees were competing for the promotions. While 40 employees cleared the First stage, 39 cleared the Second stage and 48 cleared the Third stage. While 9 employees cleared the first two stages only, 19 failed to clear first two stages only. If 19 cleared all the three stages, how many cleared at least two stages ?
(A) 28 (B) 38
(C) Data inconsistent (D) Data inadequate

84. An office is dealing with 200 cases through its 15 branches. Some branches look after 20 cases and remaining look after 10 cases. How many branches deal with 20 cases ?
(A) 5 (B) 7
(C) 10 (D) 12

85. During a survey 60% of the factories in a region were inspected. Of these, 40% failed to be working as per guidelines. The number of factories working as per guidelines was found to be 53040. How many total factories were there in the region ?
(A) 125000 (B) 150000
(C) 155000 (D) 230000

86. The percentage of marks obtained by a candidate in entrance test are as follows : English – 70, Mathematics – 85, Chemistry –78, Physics – 75. While preparing the merit list on averaging out the scores, the selection committee decided to regard mathematics and physics twice as important as Chemistry and English. What would be the score of the candidate in the merit list ?
(A) 75 (B) 78
(C) 80 (D) 82

87. With a view to save fuel, CEO of a company decided paddle his way to office from his residence on the cycle. He reaches office 7 minutes late, while paddling at 7 km/hr. When paddling at 8 km/hr, he reaches 8 minutes earlier. How far is his office from the residence ?
(A) 12 kms (B) 14 kms
(C) 16 kms (D) Data not adequate

88. In a queue, Arvind is 5th from the left, Kevin is 5th from the right and Ajmal is 7th from the right, while Balwinder is 8th from the left. After some time Ajmal and Arvind interchange their positions and so do Kevin and Balwinder. After the change in the positions, Arvind becomes 17th from the left, how many persons are in the queue ?
(A) 23 (B) 24
(C) 25 (D) Data inadequate

89. A pen of Brand A is available at Rs. 60. If ⅔ of what Brand A coats is ¼ of what Brand B costs, then how much does Brand B cost ?
(A) 80 (B) 120
(C) 140 (D) 160

90. Working together, Rajinder and Kulwinder can complete a work in 8 days. If Rajinder is half as efficient as Kulwinder, how long will he take to complete a work alone ?
(A) 6 days (B) 12 days
(C) 16 days (D) 24 days

91. A train traveling at 90 km/hr crosses a platform in 30 seconds and a man standing on the platform in 18 seconds. What is the length of the platform in meters ?
(A) 300 meters (B) 300 Km
(C) 1080 meters (D) 108 Km

92. A bus traveled the first 2 hours of its journey at 40 km/hr and the remaining 3 hours of its journey at 80 km/hr. What is average speed for the entire journey of the bus ?
(A) 50 km/hr (B) 56 km/hr
(C) 60 km/hr (D) 64 km/hr

93. Each of the 14 captains of 2011 World Cup teams shook-hands with each of the other captains before and after the inaugural ceremony. How many handshakes were there in all ?
(A) 56 (B) 91
(C) 182 (D) 364

94. What is the % change in the area of a rectangle when its length increases by 20% and its width decreases by 20% ?
(A) 4% decrease (B) 40% decrease
(C) 40% increase (D) 0%

95. A hotel uses a mixture of a blend of two varieties of rice costing Rs. 30 and Rs. 60 respectively. If the hotel uses only the expensive variety, it will have to spend Rs. 450 more. The weekly consumption of rice by the hotel is 20Kgs. In what ratio are the two blends being used ?
(A) 2 : 1 (B) 2 : 3
(C) 3 : 1 (D) 4 : 5

96. A signal flashes yellow light every 2 seconds, how many times will it flash in 1/2 an hour ?
(A) 899 (B) 900
(C) 901 (D) 902

97. The average age of husband and wife was 27 years when they were married five years ago. Now the average age of the husband, wife and the child, who was born to them after marriage, is 22. How old is the child ?
(A) 2 years (B) 3 years
(C) 4 years (D) Data inadequate to compute

98. A train starts from place P at 7 am and reaches destination D at 9 am. The second train starts from D at 7 am and reaches P at 10 am. At about what time the two trains will meet ?

(A) 8.00 am (B) 8.15 am

(C) 8.30 am (D) Data inadequate to compute

99. A factory produces two sizes of shirts, large and extra-large. The profit margin is Rs. 20 on a large shirt and Rs. 30 on a extra-large shirt. Every shirt must be processed on machine A and on Machine B. Following table gives information on the processing times per shirt on the two machines.

Time required (Hours/shirt) and Machines availability

	Machine A	Machine B
	Available for Maximum of 700 hours	Available for Maximum of 1250 hours
Large Shirt	4	6
Extra-Large Shirt	5	10

Among the following production plans, which one meets the machine availability constraints and maximizes the profit ?

(A) Large Shirt 75 caps, Extra-Large Shirt 80 caps

(B) Large Shirt 100 caps, Extra-Large Shirt 60 caps

(C) Large Shirt 50 caps, Extra-Large Shirt 100 caps

(D) Large Shirt 60 caps, Extra-Large Shirt 90 caps

100. As per the plans of a tournament each one of the participant was to play one match against each of the other participants. For some reason three players, after each of them had played three matches, had to leave the tournament. What was the total number of participants at the start of the tournament, if the total number of matches played was 30 ?

(A) 8 (B) 10

(C) 12 (D) 15

101. A car travels 600 km with a speed of 40 km/hour and returns with a speed of 60 km/hour. What is the average speed of the car during the entire journey ?

(A) 50 km/hour (B) 48 km/hour

(C) 40 km/hour (D) 60 km/hour

102. A train travels at 90 km/hour. How many meters will it travel in 15 minutes ?

(A) 22500 m (B) 1350 m

(C) 22.5 m (D) none of these

103. What will be the remainder if $(x^{97} - 1)$ is divided by $x + 1$.

(A) 96 (B) 0

(C) 2 (D) –2

104. A man rows upstream 20 km and downstream 30 km taking 5 hours each. What is the speed of the current ?

(A) 4 km/hour (B) 6 km/hour

(C) 1 km/hour (D) none of these

105. At what time between 3 and 4o'clock, the hands of a clock coincide ?

(A) 3 : 15 hrs (B) 3 : 16 hrs

(C) $3 : 16\frac{4}{11}$ hrs (D) $3 : 15\frac{4}{11}$ hrs

106. The sum of two numbers is 50. The fraction obtained by dividing the larger number by the smaller number is 3/2. Find the numbers.
(A) 25, 25 (B) 10, 40
(C) 15, 35 (D) 20, 30

107. Father's age is 5 times the age of his son. After 15 years the father will be $2\frac{1}{2}$ times older than his son. What is the present age of the father ?
(A) 35 years (B) 45 years
(C) 55 years (D) 30 years

108. Mohan and Sohan can together do a job in 12 days. Sohan alone can do it in 28 days. In how many days can Mohan finish this work ?
(A) 21 days (B) 16 days
(C) 12 days (D) 28 days

109. If M men can complete a job in H hours, in how many hours 5 men will complete the job ?
(A) $\frac{H}{5}$ (B) $\frac{H}{5M}$
(C) $\frac{MH}{5}$ (D) $\frac{M}{5H}$

110. The ratio of circumference to the diameter of a circle is :
(A) Constant and a rational number (B) Constant and an irrational number
(C) An integer (D) An irrational number but not a constant

111. Which of the following is true ?
(A) 0.6 is an irrational number (B) –1/6 is an irrational number
(C) $\sqrt{4}$ is an irrational number (D) 2 is a rational number

112. $x^2 + 7x + 12 = 0$ implies :
(A) $x = -4$ or $x = -3$ (B) $x = 6$ or $x = -2$
(C) $x = 4$ or $x = 3$ (D) $x = 6$ or $x = 2$

113. log (a·b) may be expressed as :
(A) log a · log b (B) log a + log b
(C) log (a + b) (D) log a – log b

114. Rs. 100 invested for 5 years at 6% per annum interest compounded annually will grow to :
(A) $100(1 + .06)^5$ (B) $100[1 + (.06)(5)]$
(C) $[100(1.06)]^5$ (D) 106^5

115. When the price of T.V. was reduced by 20%, the sale increased by 80%. What was the net effect on sale value in rupees ?
(A) 60% more (B) 44% less
(C) 44% more (D) 40% more

116. A number 'A' exceeds 'B' by 25%. By what % is B short of A.
(A) 25 (B) 20
(C) 10 (D) 15

117. When N is reduced by 4, it becomes 80% of itself. The value of N is :
(A) 25 (B) 15
(C) 10 (D) 20

118. A mixture of 40 liters of milk and water contains 10% water. How much water must be added to make 20% of water in the new mixture ?
(A) 25 liters (B) 5 liters
(C) 10 liters (D) 15 liters

119. What are all the solutions to the system $x + 2y = 3$ and $2x + 4y = 5$?
(A) There are infinitely many solutions (B) There are no solutions
(C) $x = 0$ and $y = 1$ (D) x can be arbitrary, and y is equal to $(5 - 2x)/4$

120. The equation $|x + 2| = -2$ has :
(A) A unique solution (B) Two solutions
(C) Infinitely many solutions (D) No solution

121. A sum of Rs. 600 amounts to Rs. 720 in 4 years. What will it amount to if the rate of interest (simple interest) is increased by 2%.
(A) Rs. 678 (B) Rs. 876
(C) Rs. 768 (D) Rs. 867

122. Two trains of lengths 190 m and 210 m respectively, are running in opposite directions on parallel tracks. If their speeds are 40 km/h and 32 km/h respectively, in what time will they cross each other ?
(A) 20 seconds (B) 30 seconds
(C) 40 seconds (D) 10 seconds

123. If the average of three numbers is V. If one of the numbers is Z and another is Y, what is the remaining number ?
(A) V – Z – Y (B) Z/V – 3 – Y
(C) Z/3 – V – Y (D) 3V – Z – Y

124. The average of six numbers is 12. If each number is increased by 2, the new average is :
(A) 18 (B) 24
(C) 14 (D) 12

125. A right pyramid 10 m high has a square base for which the diagonal is 10 m. What is volume of the pyramid ?
(A) $100\ m^3$ (B) $100\frac{2}{3}\ m^3$
(C) $166\ m^3$ (D) $166\frac{2}{3}\ m^3$

126. What is the area, in square feet, of the triangle whose sides have lengths equal to 10, 6 and 8 feet ?
(A) 480 (B) 24
(C) 48 (D) 30

127. If volume of a sphere is 36π then its surface area will be :
(A) 18π (B) 6π
(C) 12π (D) 36π

128. The number of integers from 1 to 1000, which are neither divisible be 2 nor by 5 are :
(A) 400 (B) 600
(C) 900 (D) 300

129. The Sup. $\{\sin x + \cos x\}$ is equal to :
(A) 2 (B) 1
(C) $\sqrt{2}$ (D) $\frac{1}{\sqrt{2}}$

130. How many real solutions are there of the equation $x^3 = 2$.
(A) 3
(B) 2
(C) 1
(D) No solution

131. HCF and LCM of two numbers are 16 and 240 respectively. If one of the numbers is 48, then other is :
(A) 15
(B) 80
(C) 25
(D) 5

132. The smallest number from which if 4000 subtracted, is exactly divisible by 7, 11 and 13, is :
(A) 2999
(B) 1000
(C) 6303
(D) 5001

133. There are 40 students in a class. One day $\frac{7}{10}$ students were present. The number of absentees on that day is :
(A) 7
(B) 10
(C) 12
(D) 15

134. The value of the expression $2+\sqrt{2}+\frac{1}{2+\sqrt{2}}+\frac{1}{\sqrt{2}-2} =$
(A) 2
(B) 9
(C) $\sqrt{2}$
(D) none of these

135. The value of the expression $(-2)^{-(2)^{(-2)}} =$
(A) 16
(B) 8
(C) –8
(D) none of these

136. Of 80 students in a class, 25 are studying German, 15 French and 13 Spanish. 3 are studying German and French; 4 are studying French and Spanish; 2 are studying German and Spanish; and none is studying all 3 languages at the same time. How many students are not studying any of the three languages ?
(A) 27
(B) 44
(C) 53
(D) 36

137. If A and B are two sets then A × B = B × A when :
(A) $A \subset B$
(B) always
(C) A = B
(D) none of these

138. The probability of getting two heads in a simultaneous throw of two coins is :
(A) 1/4
(B) 1/3
(C) 1/2
(D) none of these

139. If 10 persons are arranged at random in a ring then the probability of getting 2 particular persons together is :
(A) 1/9
(B) 1/5
(C) 1
(D) none of these

140. The sum of three numbers A, B and C is 98. If A : B = 2 : 3 and B : C = 5 : 8, then B is :
(A) 14
(B) 24
(C) 30
(D) 40

141. The value of $(\cos 15° + i \sin 15°)^3$ is equal to :

(A) $\frac{1-i}{\sqrt{2}}$ (B) $\frac{1+i}{\sqrt{2}}$

(C) $\frac{1}{\sqrt{2}}$ (D) $\frac{-1}{\sqrt{2}}$

142. Maximum value of $\sin\theta + \cos\theta$ is :

(A) 1 (B) 2

(C) $\frac{1}{\sqrt{2}}$ (D) $\sqrt{2}$

143. Two angles of an isosceles triangle are always :

(A) equal (B) equal to 45°

(C) equal to 60° (D) none of these

144. Sum of the opposite angles of a cyclic quadrilateral is equal to :

(A) 2 right angles (B) 4 right angles

(C) a right angle (D) none of these

145. The value of the expression $0.7 \times \frac{0.08}{0.004}$ is equal to :

(A) 0.14 (B) 14

(C) 140 (D) 0.56

146. The unknown value in the equation $\sqrt{?} \times 7 \times 18 - 4 = 122$ is :

(A) 14 (B) 7

(C) 6 (D) none of these

147. After covering five-eighth of my journey I found that I have travelled 60 km. How much journey is left ?

(A) 60 (B) 40

(C) 36 km (D) none of these

148. P% of q is q% of :

(A) $\frac{p}{100}$ (B) $100q$

(C) $\frac{q}{100}$ (D) p

149. Out of the 5 boys and 2 girls, a committee of 3 is to be found. In how many ways can it be formed if at least one girl is to be included ?

(A) 20 (B) 25

(C) 32 (D) 60

150. If we know that $a < b$ and $c \leq d$, then we can deduce that :

(A) $a - c < b - d$ (B) $a - c \leq b - d$

(C) $a - d < b - c$ (D) $c - a < d - b$

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KEY

Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans
1	B	26	D	51	C	76	B	101	B	126	B
2	D	27	B	52	C	77	B	102	A	127	D
3	C	28	B	53	B	78	B	103	D	128	A
4	C	29	B	54	C	79	D	104	C	129	C
5	A	30	C	55	C	80	C	105	C	130	C
6	C	31	D	56	D	81	B	106	D	131	B
7	A	32	D	57	D	82	D	107	B	132	D
8	A	33	C	58	C	83	B	108	A	133	C
9	C	34	C	59	D	84	A	109	C	134	A
10	C	35	D	60	B	85	B	110	B	135	A
11	A	36	C	61	B	86	B	111	D	136	D
12	B	37	B	62	D	87	B	112	A	137	C
13	C	38	C	63	B	88	A	113	B	138	A
14	C	39	A	64	C	89	D	114	A	139	A
15	B	40	D	65	C	90	D	115	C	140	C
16	A	41	A	66	D	91	A	116	B	141	B
17	D	42	A	67	C	92	D	117	D	142	D
18	B	43	A	68	A	93	C	118	B	143	A
19	A	44	D	69	B	94	A	119	B	144	A
20	B	45	B	70	B	95	C	120	D	145	B
21	C	46	A	71	D	96	C	121	B	146	B
22	D	47	D	72	D	97	A	122	A	147	C
23	A	48	B	73	B	98	B	123	D	148	D
24	B	49	B	74	B	99	A	124	C	149	B
25	C	50	A	75	D	100	B	125	D	150	C

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