

**QUESTION BOOKLET- NTPC (GRADUATE LEVEL) POST ON  
COMPASSIONATE GROUND**

DATE OF EXAM:07.01.22

TOTAL MARKS:100

TIME: 90 MINUTES

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE YOU BEGIN TO ANSWER THE QUESTION

**INSTRUCTIONS TO CANDIDATES:**

- 1.This question booklet contains 73 Questions. All questions are compulsory.
2. The candidates are not permitted to use books, notebooks, calculator and mobile phone in the examination hall.
- 3.Candidates will not be allowed to leave the examination hall until the examination is over and answer sheets are collected and properly accounted.
4. Single color ink pen must be used while writing the answer sheets. Overwriting and /or corrections must be avoided.
5. There is no negative marking.
- 6.Never write your name, mobile number or any symbol etc. on the answer paper.
- 7.Please cross the blank pages after completing the answers.

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**SECTION 1 - Objective type questions ( 70 X 1=70 MARKS )**

1. Which is the common fuel used in running of commercial airlines?  
a) Diesel    b) Crude oil    c) Aviation fuel    d) Petrol
2. The Hirakud dam is located on which river?  
a) Krishna    b) Baitarani    c) Mahanadi    d) Cauvery
3. Who is the present Chief Minister of Punjab?  
a) Charanjit Singh Channi    b) Navjot Singh Sidhu    c) Amarinder Singh    d) Rakesh Tikat
4. How many Fundamental Duties are there in our constitution?  
a) 10    b) 11    c) 12    d) 13
5. Pramod Bhagat who claimed a historic gold medal in Tokyo paralympics 2021 is related to which sport?  
a) Cricket    b) Shooting    c) Javlin    d) Badminton
6. Which gas is filled in balloons?  
a) Helium    b) Oxygen    c) Carbon monoxide    d) Nitrogen
7. Poona pact was signed in which year?  
a) 1930    b) 1931    c) 1932    d) 1934
8. Study of birds is called \_\_\_\_?  
a) Ornithology    b) Astrology    c) Archaeology    d) Geology
9. Ethanol as an alternative fuel in India is commonly made from which crop?  
a) Rice    b) Sugarcane    c) Jowar    d) Bajra
10. The brightest star in the night sky is \_\_\_\_?

- a)North star    b)Vega    c)Mars    d)Sirius
11. The state with the highest literacy rate is \_\_\_\_?  
a)Madhya Pradesh    b)Kerela    c)Odisha    d) Punjab
  12. The Headquarters of ISRO is \_\_\_\_?  
a)New Delhi    b)Mumbai    c)Chennai    d)Bengaluru
  13. The First President of Indian National Congress was \_\_\_\_?  
a)W.C. Banerjee    b) George Yule    c) William Wedderburn    d) Dadabhai Naoroji
  14. Ellora caves in which state \_\_\_\_?  
a)Gujarat    b)Maharashtra    c)Rajasthan    d)Bihar
  15. The filament of a light bulb is made up of \_\_\_\_?  
a) Platinum    b) Copper    c) Tungsten    d) Antimony
  16. The Jallianwala Bagh is located at \_\_\_\_?  
a)Chandigarh    b)Ambala    c)Amritsar    d)Patiala
  17. The capital of Syria is \_\_\_\_?  
a)Kabul    b)Baghdad    c)Palestine    d) Damascus
  18. Which one of the following is not an input device?  
a)Monitor    b)Mouse    c)Keyboard    d)Scanner
  19. R.K. Laxman is a renowned \_\_\_\_?  
a)Doctor    b)Journalist    c)Director    d) Cartoonist
  20. Who is known as the Flying Sikh of India?  
a)Kapil Dev    b)Milkha Singh    c)Dhyanchand    d)Neeraj Chopra
  21. Select the correct option that will fill in the blank and complete the series.  
KNQ, OPR, SRS, \_\_\_\_  
(a) TVT    (b) TWT    (c) WTT    (d) TTW
  22. Select the letter that will come next in the following series.  
O, R, U, X, A, \_\_\_\_  
(a) D    (b) C    (c) B    (d) E
  23. If P means 'add to', V means 'multiply by', M means 'subtract from' and L means 'divide by' then  $30 L 2 P 3 V 6 M 5 = ?$   
(a) 18    (b) 28    (c) 31    (d) 103
  24. 'Fish' is related to 'Pisciculture' in the same way as 'Bees' is related to:  
(a) Horticulture    (b) Apiculture    (c) Sericulture    (d) Viticulture
  25. 'Day' is related to 'Calendar' in the same way as 'Time' is related to:  
a) Watch    b) Hour    c) Sun    d) Week
  26. What will come in place of the question mark in the following number series?  
40, 205, 1030, 5155, ?  
a) 36044    b) 25780    c) 22428    d) 15890
  27. Amit rides a bike 10 km east and then the same distance towards south. Now he turns east for another 5 km. Then he turns only left at two points to travel 15 km each. How far is he from the starting point?  
a) 10 km    b) 7.5 km    c) 5 km    d) 15 km
  28. Select the number that can replace the question mark (?) in the following series.  
423, 407, 439, 391, 455, 375, ?  
(a) 420    (b) 365    (c) 360    (d) 471
  29. If 7<sup>th</sup> January, 2004 is Wednesday, what will be the day on 7<sup>th</sup> January 2005?  
a) Wednesday    b) Thursday    c) Friday    d) Saturday
  30. Speed of 1km/hour is equal to \_\_\_\_?  
a) 6/1000 m/s    b) 60/1000 m/s    c) 3600/1000 m/s    d) 1000/3600 m/s

31. Select the missing number from the given responses

2	4	3	4	6	-2
1	8	2	24	-5	?

- a) 45                      b) 30                      c) 70                      d) 60

32. Find out the alternative figure which contains figure (X) as its part

**Question Figure**

**Answer Figure**



(X)



a



b



c



d

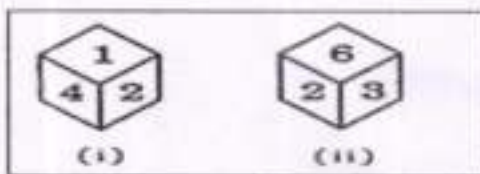
33. 'Cricker' is related to 'Bat' in the same way as 'Hockey' is related to:

- a) Stick                      b) Field                      c) Player                      d) Ball

34. In a certain code language 'LIBERAL' is coded as 'MJCFSBM', then how is the word 'REDUCTION' coded in that language?

- a) SFEVDUJPO    b) EDCTBSHNM    c) SFDUCTJPO    d) SFEVCTJPO

35. What will be the number at the bottom, if 5 is at the top; the two positions of the dice being as given below:



- a) 1                      b) 2                      c) 3                      d) 6

36. Arrange the following in a logical order:

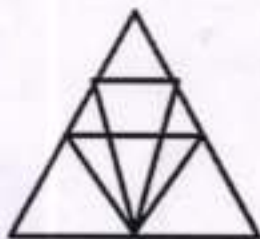
1. Plane 2. Take off 3. Stop 4. Airport 5. Runway

- a) 4, 1, 5, 3, 2    b) 4, 5, 2, 1, 3    c) 4, 5, 1, 2, 3    d) 4, 5, 3, 1, 2

37. Which word does not belong with others?

- a) centimetre    b) ounce    c) Kilometre    d) millimetre

38. Find the number of triangle in the given figure.



- (a) 12    (b) 18    (c) 22                      (d) 26

39. Select the correct option that will fill in the blank and complete the series.

LM, QR, VW \_\_\_\_

(a) UK (b) AB (c) AD (d) SM

40. Which one of the following is equivalent to  $\frac{6}{20}$ ?

a) 5%      b) 10%      c) 20%      d) 30%

41. Choose the alternative which is closely resembles the water-image of the given combination.

**NUCLEAR**

(1) **ƆAƆEƆSUI**

(2) **INCTEVB**

(3) **INUGƆVB**

(4) **INUGƆVB**

(a) 2    (b) 1    (c) 4    (d) 3

42. Choose the alternative which is closely resembles the water-image of the given combination.

**bridge**

(1) **ƆI|QƆE**

(2) **ƆI|QƆE**

(3) **ƆI|QƆE**

(4) **ƆI|ƆE**

(a) 2    (b) 1    (c) 4    (d) 3

43. In the following question, select the missing number from the given series.

49, 46, 43, 40, ?, 34

(a) 38    (b) 37    (c) 36    (d) 39

44. There are 45 trees in a row. The lemon tree is 21<sup>st</sup> from right end. What is the rank of lemon tree from left end?

(a) 26    (b) 24    (c) 25    (d) 27

45. In a certain code language, '123' means 'bright little boy', '145' means 'tall big boy' and '637' means 'beautiful little flower'. Which digit in that language means 'bright'?

(a) 1    (b) 2    (c) 3    (d) 4

46. Length of a rectangle is 53 metre, while its breath is 28 metre. Cost of covering it with grass bed is Rs.27 sq meter. Find total expenditure?

(a) Rs. 40,098    (b) Rs. 40,048    (c) Rs. 40,068    (d) Rs. 40,088

47. In 3 years ₹ 3000 amounts to ₹ 3993 at x % compound interest, compounded annually. The value of x is

(a) 5%    (b) 33%    (c) 10%    (d) 8%

48. A sum of Rs. 8000 will amount to Rs. 8820 in 2 years if the interest is calculated every year. The rate of compound interest is

(a) 3 %    (b) 5 %    (c) 6 %    (d) 7 %

49. If the speed of a boat in still water is 20 km/hr and the speed of the current is 5 km/hr, then the time taken by the boat to travel 100 km with the current is :

(a) 4 hr (b) 7 hr (c) 2 hr (d) 3 hr

50. If  $p \times q = p + q + (p/q)$ , the value of  $8 \times 2$  is :

(a) 14 (b) 16 (c) 6 (d) 10

51. If  $a = 7$ ,  $b = 5$  and  $c = 3$ , then the value of  $a^2 + b^2 + c^2 - ab - bc - ca$  is

(a) 0 (b) 8 (c) 12 (d) -12

52. The average of 10 numbers is 7. If each number is multiplied by 12, then the average of the new set of numbers will be

(a) 82 (b) 84 (c) 7 (d) 19

53. In the afternoon, a student read 100 pages at the rate of 60 pages per hour. In the evening, when she was tired, she read 100 more pages at the rate of 40 pages per hour. What was her average rate of reading the pages per hour?

(a) 48 (b) 50 (c) 60 (d) 70

54. The average age of 24 boys and their teacher is 15 years. When the teacher's age is excluded, the average age decreases by 1 year. The age of the teacher is:

(a) 40 Years (b) 41 Years (c) 38 Years (d) 39 Years

55. A dozen pairs of socks quoted at ₹ 80 are available at a discount of 10%. How many pairs of socks can be bought for 24?

(a) 3 (b) 6 (c) 4 (d) 5

56. The MRP of a watch is Rs.4750. The shop sells it at 12% discount. If the shopkeeper had purchased the watch for Rs. 3,850, what is his gain?

(a) Rs.240 (b) Rs.570 (c) Rs.900 (d) Rs.330

57. Fill in the blanks:

$\sin A = \underline{\hspace{1cm}} \times (\cos A)$

(A)  $\sin A$  (B)  $\tan A$  (C)  $\cot A$  (D)  $\operatorname{cosec} A$

58. Jack sold a dress for Rs.1440 and made a profit of 20%. What was its cost?

(a) 1152 (b) 1240 (c) 1200 (d) 1180

59. A cyclist cycles 8 km at 15 km/hr and a further 4 km at 20 km/hr. Find the average speed in km/hr.

(a) 16.8 (b) 16.36 (c) 15.71 (d) 17.50

60. If the average marks obtained by Balu, Benjamin and Babur is 80 and the average marks of Benjamin and Babur is 83, find marks obtained by Balu.

(a) 80 (b) 83 (c) 90 (d) 74

61. Area of a rectangular ground is 12500 m<sup>2</sup>. Its length is 125m, what is its perimeter?

(a) 450 (b) 440 (c) 430 (d) 340

62. If 36 men can do a piece of work in 25 hours, in how many hours will 15 men do it?

a)60 hours b)61 hours c)62 hours d)63 hours

63. If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days, the time taken by 15 men and 20 boys in doing the same type of work will be:

a)4days      b)5days      c)6days      d)7days

64. A sum of Rs. 312 was divided among 100 boys and girls in such a way that each boy gets Rs. 3.60 and each girl Rs. 2.40. The number of girls is:

(A) 35 (b) 40 (C) 60 (D) 65

65. A cricket team won 3 matches more than they lost. If a win gives them 2 points and loss (-1) point, how many matches, in all, have they played if their score is 23?

(a) 17 (b) 20 (c) 37 (d) 40

66. A train 110 metres long is running with a speed of 60 kmph. In what time will it pass a man who is running at 6 kmph in the direction opposite to that in which the train is going ?

(a) 5 sec(b) 6 sec(c) 7 sec(d) 10 sec

67. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in :

(a) 80 min (b) 108 min (c) 144 min (d) 180 min

68. A man covers a certain distance at 36 km/h. How many meters does he cover in 2 minutes?

(a) 1000 m (b) 120 m (c) 1200 m (d) 600 m

69. A car travels a distance of 715 km at a uniform speed. If the speed of the car is 10 km/h more, it takes 2 hours less to cover the same distance. The original speed was....

(a) 45 km/h (b) 55 km/h (c) 60 km/h (d) 65 km/h

70. The product of 2 numbers is 1575 and their quotient is  $\frac{9}{7}$ . Then the sum of the numbers is -?

a. 74 b. 78 c. 80 d. 90

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**Section 2-Subjective type questions (10x3=30marks)**

**71. Write an essay on "Role of urbanisation in economic development of India"**

**72. Write an essay on "Information technology in our daily lives"**

**73. Write an essay on "Effects of Global warming"**