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RRB NTPC

TEST SERIES

DATE- __/__/__

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INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set 18

QUESTION- 100

MARKS- 100

NEGATIVE MARK- 1/3

DURATION- 90 MIN.

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3. THERE ARE A TOTAL OF 100 QUESTIONS IN THIS QUESTION BOOKLET.
4. THIS IS AN OBJECTIVE TEST, IN WHICH FOUR OPTIONS ARE GIVEN FOR THE ANSWER TO EACH QUESTION, YOU HAVE TO CHOOSE ONLY ONE OPTION WITH THE CORRECT ANSWER OUT OF THESE FOUR OPTIONS.
5. ANSWERS TO ALL QUESTIONS ARE TO BE WRITTEN ON SEPARATE ANSWER SHEETS.

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Website:- www.spardha.guru

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HELPLINE 90711 54445, 90711 64446, 90711 74447

Total: 100 Que.

RRB NTPC Set 18

Time: 90 Min.

RRB NTPC CBT I

1). If $a + b = 5$ and $ab = 2$ find the value of $a^2 + b^2$

(a) 21 (b) 20 (c) 25 (d) 30

2). Find the value of $(35)^3 + (10)^3$

(a) 42574 (b) 40380 (c) 45440 (d) 43875

3). A train 600 meters long is running at a speed of 90 km/hr. If it crosses a tunnel in one minute, then the length of the tunnel is:

(a) 500 meters (b) 550 meters (c) 600 meters

(d) 900 meters

4). The radius of a circular wheel is $7/8$ meter. How many revolutions will it make in travelling $11/2$ km?

(a) 550 (b) 1000 (c) 1100 (d) 2200

5). The data given in the table shows the number of students studying in four different disciplines in 5 institutes. Study the table and answer the question.

Institutes	Arts	Science	Commerce	Computer Science
A	36	48	59	57
B	45	54	55	48
C	55	36	56	51
D	45	48	55	53
E	48	44	52	55

Number of students studying Computer Science in the institutes A and C taken together is what percent of the number of students studying Arts in the institutes B and D taken together?

(a) 120 (b) 200 (c) 108 (d) 83.3

6). The average of squares of five consecutive odd natural numbers is 233. What is the average of the largest number and the smallest number?

(a) 15 (b) 11 (c) 17 (d) 13

7). A sold an article to B at a profit of 25%. B sold it to C at a profit of 15%. The profit made by B is Rs.40 less than the profit made by A. What is the cost price (in Rs.) of the article for A?

(a) 546 (b) 240 (c) 400 (d) 640

8). Places A and B are 45 km apart from each other. A car starts from place A and another car starts from place B at the same time. If they move in same direction, they meet in 4 and a half hour and if they move towards each other, they meet in 27 minutes. What is the speed (in km/h) of the car which move faster?

(a) 56 (b) 50 (c) 45 (d) 55

9). Atul borrowed a sum of ₹12000 and agreed to repay it by paying ₹4800 at the end of first year and ₹9240 at the end of second year. What is the rate of compound interest compounded annually?

(a) 12% (b) $\frac{8}{5}\%$ (c) 10% (d) 8%

10). Simplify the following expression.

$$\frac{5(a^6 - b^6)^3 + 5(b^6 - c^6)^3 + 5(c^6 - a^6)^3}{2(a^3 - b^3)^3 + 2(b^3 - c^3)^3 + 2(c^3 - a^3)^3}$$

(a) $\frac{5}{2}(a^3 - b^3)(b^3 - c^3)(c^3 + a^3)$

(b) $\frac{5}{2}(a^3 + b^3)(b^3 - c^3)(c^3 - a^3)$

(c) $\frac{5}{2}(a^3 + b^3)(b^3 + c^3)(c^3 + a^3)$

(d) $\frac{5}{2}(a^3 - b^3)(b^3 + c^3)(c^3 + a^3)$

11). Eighteen men can complete a work in 14 days. Three women do as much work as two men. Five men and six women started the work and continued for 4 days. Subsequently 3 more men joined the group. In how many total days was the work completed?

(a) $21\frac{1}{3}$ (b) 18 (c) 22 (d) $17\frac{1}{3}$

12). Monthly salaries of Anil and Kumud are in the ratio 19 : 17. If Anil and Kumud get salary hike of Rs.2000 and Rs.1000 respectively, then the ratio in their salaries becomes 8 : 7. What is the present salary of Kumud (in Rs.)?

- (a) 18000 (b) 35000 (c) 38000 (d) 34000

13). A certain sum amounts to Rs.81840 in 3 years and to Rs.92400 in 5 years at x% p.a under simple interest. If the rate of interest is becomes (x + 2)%, then in how many years will the same sum double itself?

- (a) 8 (b) 20 (c) $12\frac{1}{2}$ (d) 10

14). A takes 2 hours more than B to cover a distance of 40 km. If A doubles his speed, he takes $1\frac{1}{2}$ hour more than B to cover 80 km. To cover a distance of 120 km, how much time (in hours) will B take travelling at his same speed?

- (a) $1\frac{2}{3}$ (b) $1\frac{1}{4}$ (c) $1\frac{1}{2}$ (d) $1\frac{1}{3}$

15). Arvind said to Shikha, "the only daughter of your mother is my son's wife". How is Arvind related to Shikha?

- (a) Mother (b) Father-in-law (c) Father
(d) Uncle

16). Four numbers have been given, out of which three are alike in some manner and one is different. Select the odd one.

- (a) 8 (b) 9 (c) 529 (d) 49

17). If in a certain code in a language, SITUATION is written as 133 and RIGHT is written as 67, then how will CONSTITUTION be written as in that language?

- (a) 167 (b) 179 (c) 184 (d) 132

18). Select the option in which set same relationship as that shared by the given number set.

(2, 41, 7)

- (a) (9, 92, 11) (b) (6, 36, 9) (c) (4, 57, 11)
(d) (8, 81, 11)

19). Kumbhalgarh fort is located in which state of India?

- (a) Madhya Pradesh (b) Uttarakhand
(c) Rajasthan (d) Karnataka

20). A person has three iron bars whose lengths are 10, 15 and 20 m respectively. He wants to cut pieces of same length from each of the three bars. What is the least number of total pieces if he is cut without any wastage?

- (a) 45 (b) 15 (c) 9 (d) 30

21). Which Sikh guru was earlier known as Bhai Jetha?

- (a) Guru Angad (b) Guru Amar Das
(c) Guru Ram Das (d) Guru Haragovind

22). A, B, C and D purchase a gift worth ₹ 60. A pays half of what others are paying. B pays $\frac{1}{3}$ rd of what others are paying and C pays $\frac{1}{4}$ th of what others are paying. What is the amount paid by D?

- (a) 16 (b) 13 (c) 14 (d) 15

23). The Islamic Calendar is also known as

- (a) Hebrew Calendar (b) Hijri Calendar
(c) Iranian Muslim Calendar (d) Julian Calendar

24). A train travelling with uniform speed crosses two bridges of lengths 300m and 240m in 21 seconds and 18 seconds respectively. The speed of the train is:

- (a) 72 km/hr (b) 68 km/hr (c) 65 km/hr
(d) 60 km/hr

25). Kheda Satyagraha of 1918 took place in which of the following states?

- (a) Rajasthan (b) Madhya Pradesh (c) Gujarat
(d) Bihar

26). A bus covers four successive 3 km stretches at speeds of 10 km/hr, 20 km/hr, 30 km/hr and 60 km/hr respectively. Its average speed over this distance is

- (a) 30 km/hr (b) 25 km/hr (c) 20 km/hr
(d) 10 km/hr

27). What is the unit of Refractive index?

- (a) Metre per sec (b) Radian (c) Ohm
(d) None of these

28). The tax imposed on an article is decreased resulting in price to drop by 10% and its consumption increases by 10%. Find the percentage change in revenue from it?

- (a) 10% increase (b) 2% decrease
(c) 1% decrease (d) 11% increase

29). Select the option that is related to the third term in the same way as the second term is related to the first term.

Circle : Circumference :: Square : ?

- (a) Volume (b) Area (c) Diagonal (d) Perimeter

30). Find the number of zeroes at the end of the product

$$5 \times 10 \times 15 \dots\dots\dots 75 ?$$

- (a) 11 (b) 15 (c) 10 (d) 18

31). The Brightest star visible from any part of the earth is Sirius. This is also known as _____.

- (a) Cat Star (b) Dog Star (c) Sand Star
(d) Rock Star

32). A car is bought for Rs 56000. Its value depreciates at the rate 10%pa and it was sold at the end of 3 years. The money it fetches is used to purchase another car which depreciates at the rate of 15%pa. Find its value after two years?

- (a) 40824 (b) 29495.34 (c) 39459.65
(d) 29964.5

33). Loktak Lake is located in which state?

- (a) Meghalaya (b) Manipur (c) West Bengal
(d) Sikkim

34). In the following question, select the odd word pair from the given alternatives.

- (a) Shovel: Gardner (b) Needles: Tailor
(c) Stethoscope: Doctor (d) Augers: Sculptor

35). Which letter-pair will replace the question mark (?) in the following series?

FJ, HL, ?, LP, NR

- (a) JM (b) JN (c) GM (d) IN

36). The HCF and LCM of 1.6, 8 and 2.4 is

- (a) 0.8 and 24 (b) 0.6000 and 38
(c) 0.900 and 42 (d) None of these

37). Greenland Island is an island of which country?

- (a) Canada (b) America (c) Denmark
(d) England

38). Lake Baikal is located in which country?

- (a) Russia (b) Australia (c) South Africa
(d) Brazil

39). Sushil was thrice as old as Snehal 6 years back. Sushil will be $\frac{5}{3}$ times as old as Snehal 6 years hence. How old is Snehal today?

- (a) 12 years (b) 15 years (c) 18 years
(d) 24 years

40). Nati Dance is a traditional folk dance of which state of India?

- (a) Himachal Pradesh (b) Uttar Pradesh
(c) Haryana (d) Uttarakhand

41). Three taps A, B and C can fill a tank in 8 hours. After 3 hours tap C is closed and tap A and B fill the remaining tap in 6 hours. In what time tap C alone can fill the tank?

- (a) 24 hours (b) 48 hours (c) 40 hours
(d) 56 hours

42). Sunny purchased a shirt marked at Rs. 1200 at two successive discounts of 15% and 20% respectively. He spent Rs. 84 on fitting of shirt and sold the shirt for Rs. 1000. His profit % was:

- (a) 12.5% (b) 20% (c) 11.11% (d) 35%

43). Which of the following is not true about ordinance promulgated by president?

- (a) It can be retrospective.
(b) It can include constitutional amendment laws.
(c) It can be withdrawal by president anytime on advice of the council of ministers.
(d) It is mentioned in article 123.

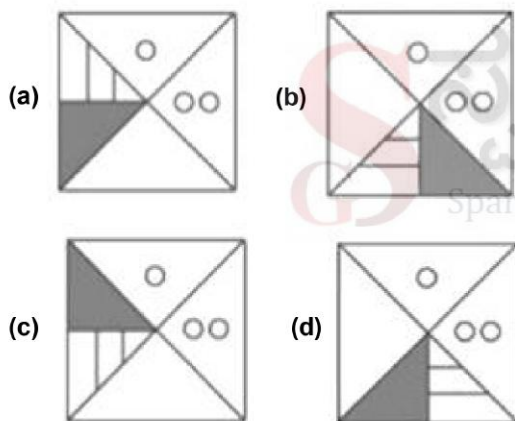
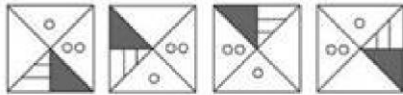
44). Which constitutional amendment act made it obligatory for president to give his assent to a constitutional amendment act?

- (a) 23rd Constitutional Act
- (b) 24th Constitutional Act
- (c) 25th Constitutional Act
- (d) 26th Constitutional Act

45). The election of Vice president is to be held within _____ of the expiry of the term of office of the outgoing Vice-President.?

- (a) 30 days (b) 60 days (c) 90 days
- (d) 180 days

46). Select the figure that will come next in the following figure series.



47). Speed of a boat is 15 km/h. Speed of boat in downstream is 3 times of speed of boat in upstream. What is speed of current?

- (a) 7.5 km/h (b) 5 km/h (c) 3 km/h (d) 10 km/h

48). Which of the following statement is not true about attorney general of India?

- (a) His office is mentioned under Article 76
- (b) He is chief law officer of government
- (c) He can take parts in proceedings of both houses
- (d) He has fix tenure of office

49). Ustad Mansur, Bishandas, Manohar, Goverdhan, etc., were court painters of which king?

- (a) Akbar (b) Jahangir (c) Shahjahan
- (d) Aurangzeb

50). A and B can complete a piece of work in 10 and 25 days respectively. If they complete the whole work in 5 days with help of C then, what is share of C in remuneration of Rs 1000?

- (a) 200 (b) 250 (c) 300 (d) 500

51). If Girdhar's salary is $\frac{5}{3}$ times of Hariraj's and shaunak's is $\frac{2}{3}$ times of Hariraj's, what is the ratio of Girdhar's salary to Shaunak's?

- (a) 9 : 10 (b) 10 : 9 (c) 5 : 2 (d) 2 : 5

52). Ravikirti, who wrote the famous Aihole inscription was the court poet of which king?

- (a) Kaniska (b) Harishchandra (c) Pulakesin II
- (d) Vikramaditya VI

53). Ashvaghosha, Nagarjuna and Vasumitra etwere present in court of which king?

- (a) Kanishka (b) Gotmiputra Satvahana
- (c) Harshvardhana (d) Pulkesin II

54). Bhuvesh makes 750 articles at a cost of 60 paise per article. He fixed the selling price such that if only 600 articles are sold, he would get 40% profit on the outlay. However he was able on sell 630 articles on that selling price. Find his actual profit % now.

- (a) 46% (b) 47% (c) 44% (d) 37%

55). Who was the eldest daughter of Ashoka who later became a Buddhist monk?

- (a) Sanghamitra (b) Jayanti (c) Durgawati
- (d) Vishwawara

56). Sum of a fraction and thrice its reciprocal is $\frac{31}{6}$. What is the fraction?

- (a) $\frac{2}{9}$ (b) $\frac{9}{4}$ (c) $\frac{9}{2}$ (d) $\frac{4}{9}$

57). A, B and C enter into partnership with capital contribution of 30 lakhs, 20 lakhs, and 10 lakhs respectively. A and B are working partners while C is a sleeping partner. A and B gets 10% and 15% of gross profit respectively as salary for managing the business. If at the year end, C receives ₹3.75 lakhs, as profit, find the share of A?

- (a) 15 lakh (b) 14.35 lakh (c) 12 lakh
- (d) 14.25 lakh

58). Which of the following is the only confirmed active volcano in South Asia?

- (a) Mount Kelimutu (b) Mount Merapi
(c) Mayon Volcano (d) Barren Island

59). Which of the following earthquake waves can travel only through solid materials?

- (a) Love waves (b) P-waves (c) S-waves
(d) Rayleigh waves

60). Two sums Rs. 1500 and Rs. 1800 are put on simple interest in two different banks for 3 years and 2 years respectively. It was found that, after their respective times the interest received from both banks are same. Find the ratio of interest rates.

- (a) 4:5 (b) 5:7 (c) 2:3 (d) 3:5

61). Select the option in which the words share the same relationship as that shared by the given pair of words.

DNA (Deoxyribonucleic Acid) : Nucleotides

- (a) Hair : Triglyceride (b) Steel : Hydrogen
(c) Nails : Keratin (d) Salt : Ocean

62). Wahabi movement in India was led by?

- (a) Syed Ahemd Khan (b) Shariatulalh Khan
(c) Syed Ahmed Barelli (d) All of above

63). If the product $4864 \times 9P2$ is divisible by 12, then the minimum value of P is:

- (a) 1 (b) 2 (c) 3 (d) 5

64). Lake Great Bear is located in which of the following countries?

- (a) Australia (b) USA (c) Canada (d) Brazil

65). Gout is caused by an excess of which acid in the blood?

- (a) HCl Acid (b) Urea (c) Uric Acid
(d) Carbon Dioxide

66). The present ages of P and Q are in the ratio 2 : 3. Ten years ago, this ratio was 3 : 5. The present ages of P and Q are respectively :

- (a) 44 years, 66 years (b) 38 years, 57 years
(c) 40 years, 60 years (d) 34 years, 51 years

67). In a code language, TABLEPADS is written as BADCYGAPJ. How will BACKSPACE be written as in that language?

- (a) DAEBJGAEY (b) DEIBJGEIY
(c) DAJBJGAJY (d) DAIBJGAIY

68). In what ratio Rs. 18 per kg rice mixed with Rs. 25 per kg rice that the 25% profit can be earned after selling the mixture at Rs. 25 per kg?

- (a) 5 : 2 (b) 2 : 5 (c) 1 : 4 (d) 4 : 1

69). Langhnaj site is located in which state?

- (a) Rajasthan (b) Gujrat (c) Maharashtra
(d) Uttar Pradesh

70). Which Chola king built Raja Rajeshwar Temple at Tanjore?

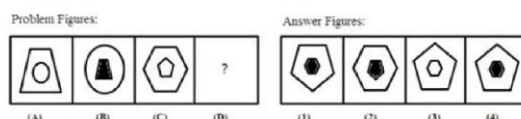
- (a) Rajendra I (b) RajRaja I (c) Vijayalya
(d) Krishna I

71). XYZ is a 3 digits number such that when we calculate the difference between the two three-digit numbers XYZ and YXZ, the difference is exactly 450. How many possible values exist for the digits X and Y?

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

72). Each of the following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 and 5 constitute the Answer Set. There is a definite relationship between figures A and Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in figure D.

Select a suitable figure from the answer figures that would replace the question mark(?).



- (a) 1 (b) 2 (c) 3 (d) 4

73). Deodhar Trophy and Irani Trophy are major tournaments of which sports?

- (a) Hockey (b) Tennis (c) Cricket
(d) Badminton

74). Which leader founded 'Mukti Mission' for the education of child widows in last years of 19th century?

- (a) Mahadevi Verma (b) Anusuiya Devi
(c) Annie Besant (d) Pandita Ramabai

75). The _____ was translated to Persian as the 'Razmnama'.

- (a) Rig Veda (b) Ramayana (c) Mahabharata
(d) Arthashastra

76). Link' is related to 'Chain' in the same way as 'Bead' is related to '_____'.
(a) Sea (b) Pearl (c) Jewellery (d) Necklace

77). Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

- (a) 11 – 143 (b) 8 – 138 (c) 6 – 174
(d) 5 – 155

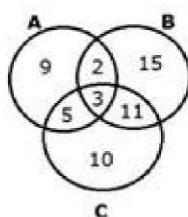
78). Who is the current Education minister of India?

- (a) Piyush Goyal (b) Ramesh Pokhriyal
(c) Prakash Javadekar (d) Dharmendra Pradhan

79). World Population Day is observed every year on _____.

- (a) 12th July (b) 11th July (c) 13th July
(d) 14th July

80). In the given Venn diagram, 'Group A' represents those who can speak 'English'. 'Group B' represents those who can speak 'Hindi', and 'Group C' represents those who can speak 'Marathi'. The numbers given in the diagram represent the number of persons in that particular category.



How many persons can speak exactly two languages?

- (a) 21 (b) 12 (c) 3 (d) 18

81). Who will be the India's Flag Bearers at Tokyo Olympics 2021 Opening Ceremony?

- (a) Mary Kom (b) Manpreet Singh
(c) Saina Nehwal (d) Both A and B

82). What is the value of:

$$2 \text{ of } 3 \div 3 \times 2 + \{4 \times 3 - (5 \div 2 + 3)\} ?$$

- (a) 24 (b) -24 (c) 21/2 (d) -21/2

83). A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

945, 378, 151.2, ?, 24.192

- (a) 62.72 (b) 63.85 (c) 65.04 (d) 60.48

84). Who has been awarded the 2021 Humboldt Research Award for Economics?

- (a) Raghuram Rajan (b) Kaushik Basu
(c) Amartya Sen (d) Arvind Panagariya

85). What is the largest four-digit number, which is divisible by 32, 40, 36 and 48?

- (a) 8820 (b) 8640 (c) 9220 (d) 9120

86). A new book titled 'The India Story' has been authored by _____.

- (a) Raghuram Rajan (b) Urjit R Patel
(c) Subbarao (d) Bimal Jalan

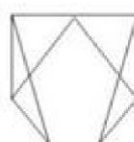
87). A cricketer whose bowling average is 10.5 runs per wicket, takes 5 wickets for 25 runs and thereby decreases his average by 0.5. Find the number of wickets taken by him till the last match.

- (a) 50 (b) 60 (c) 55 (d) 62

88). P is 4 years older to Q. Q is 7 years younger to R. R is 5 years older to S. S is 8 years younger to T. Who is the youngest?

- (a) P (b) Q (c) R (d) S

89). How many triangles are present in the following figure?



(a) 13 (b) 15 (c) 8 (d) 10

90). Who has become the first female Indian golfer to qualify for Tokyo Olympics?

(a) Gaurika Bishnoi (b) Smriti Mehra
(c) Diksha Dagar (d) Aditi Ashok

91). On Monday Sakshi reached 15 min before 9:00 a.m. for the meeting, Sakshi found herself half an hour earlier than the man who was 40mins late. What was the scheduled time of the meeting?

(a) 8:15 a.m. (b) 8:20 a.m. (c) 8:25 a.m.
(d) 8:35 a.m.

92). Which country will host the World Badminton Championships in 2026?

(a) France (b) India (c) China (d) Brazil

93). A man in a car notice that he can count 51 electric poles in 60 seconds. If the distance between each two consecutive poles is 40 meters. Then what is the speed of the car (kmph) ?

(a) 150 kmph (b) 160 kmph (c) 120 kmph
(d) 160 kmph

94). On a certain date, Australia has a success rate of 60% against India in all the ODIs played between the two countries. They lost the Next 40 ODIs in a row to India and their success rate comes down to 40%. The total Number of ODIs played between the countries are -

(a) 50 (b) 110 (c) 120 (d) 80

95). Recently, Sher Bahadur Deuba took oath as the Prime Minister of which country?

(a) Bhutan (b) Mauritius (c) Nepal (d) Maldives

96). India's first 'Grain ATM' has been set up in _____.





(a) Kerala (b) Haryana (c) Tamil Nadu
(d) Karnataka

97). If there is 50% increase in an amount in 5 years due to simple interest, then what will be the compound interest at Rs 30000 after 2 years at the same rate?

(a) Rs 6300 (b) Rs 5200 (c) Rs 4500
(d) Rs 7200

98). Select the option figure that will come next in the following series:



(a)  (b)  (c) 
(d) 

99). India's largest solar power park to be constructed in which of the following states?

(a) Kerala (b) Telangana (c) Gujarat
(d) Tamil Nadu

100). Two numbers are in ratio 1:2 and their HCF is 16. Their LCM is:

(a) 16 (b) 23 (c) 32 (d) 60