Dr Bhim Rao Ambedkar Educational Society
Dbraegroup@gmail.com

RRB NTPC 6
COMPETITIVE EXAMS - RRB EXAMS

Time Allowed: 1 hour and 30 minutes

Maximum Marks : 100

General Instructions:
- सभी प्रश्न अनिवार्य हैं।
- 33% नकारात्मक अंकन है।

गणित

1) Anna has invested a certain amount of money in a bank, which pays simple interest. The value of the investment at the end of 2 years was ₹240. For 3 years he waited further and finally received ₹420. What is the principal amount invested by him initially? **[1]**
   a) ₹150
   b) ₹180
   c) ₹120
   d) ₹100

2) The compound interest on Rs 5,000 for 2 years is Rs 253.125. If the same amount is invested at the same simple interest rate for the same period, what will be the interest? **[1]**
   a) ₹248
   b) ₹250
   c) ₹255
   d) ₹240

3) The frustum of a cone is 10 cm. base and 6 cm. is the diameter of the top. Its height is 5 cm. Is. Find the area of the entire surface. **[1]**
   a) 252.15 square cm
   b) 243.25 square cm
   c) 253 sq. cm
   d) 242.03 square cm

4) If the length of each side of a cube is doubled, the volume will be _____ of the original volume. **[1]**
   a) Becomes 9 times.
   b) Multiplied by 6.
   c) It's doubled
   d) Multiplied by 8.

5) A stick was broken into two parts, whose lengths are in the ratio $7 : 11$. If the length of the smaller part is 77 cm, find the length of the entire stick. **[1]**
   a) 1.21 m
   b) 1.98 m
   c) 1.26 m
   d) 1.80 m

6) The ratio of the amount of money that Arun and Ahan have is $9 : 5$. If Arun gives Ahan Rs 12 out of his share, the ratio will change to $4 : 3$. How much money did Arun have initially? **[1]**
   a) ₹108
   b) ₹90
   c) ₹144
   d) ₹126

7) The sum of two numbers is 20 and their difference is 16. Find the ratio of a large number to a small number. **[1]**
   a) $9 : 1$
   b) $1 : 9$
   c) $2 : 11$
   d) $11 : 2$

8) The length of the string between a kite and a point on the ground is 102 m without any slack. If the string makes an angle with the ground such that, then $\tan \alpha = \frac{15}{8}$ at what height is the kite? **[1]**
   a) 105 m
   b) 80 m
   c) 100 m
   d) 90 m

9) What is the angle of the sun when the shadow length of a tree is $\sqrt{3}$ times the height of the tree? **[1]**
   a) 60°
   b) 75°
   c) 45°
   d) 30°

10) If the selling price of a wardrobe is doubled, the profit on it is tripled. Find the profit percentage. **[1]**
   a) 100%
   b) 25%
   c) 10%
   d) 50%

11) By selling a vehicle for ₹52,500, Ram suffers a loss of 25%. What was his loss? **[1]**
   a) ₹17,500
   b) ₹16,500
   c) ₹17,000
   d) ₹18,000

12) Arun purchased 38 kg of rice for ₹1,710. He sold it at a profit equal to the selling price of 8 kg. What is the selling price of 5 kg rice? **[1]**
   a) ₹280
   b) ₹290
   c) ₹295
   d) ₹285

13) In the following diagram, $AB \| CD \| EF$ So find the value of $x°$

[1]
   a) 148°
   b) 147°
   c) 115°
   d) 126°

14) If a regular polygon has 65 diagonals, then the sum of its interior angles is: **[1]**
   a) 1980°
   b) 1440°
   c) 1800°
   d) 1620°

15) What will be the highest value of x and z in the given equation?
   $9X7 + 8YZ + 7Z1 = 2526$ **[1]**
   a) $X = 9, Z = 2$
   b) $X = 9, Z = 1$
   c) $X = 7, Z = 8$
   d) $X = 3, Z = 8$

16) $(6, y)$ is a pair of coprime numbers where y is a natural number not greater than 20. How many possible values does y have? **[1]**
   a) 5
   b) 6
   c) 8
   d) 7

17) What two fractions can come between $\frac{5}{7}$ and $\frac{3}{4}$? **[1]**
   a) $\frac{8}{11}, \frac{11}{15}$
   b) $\frac{2}{3}, \frac{5}{6}$
   c) $\frac{1}{2}, \frac{2}{5}$
   d) $\frac{7}{9}, \frac{8}{9}$

18) The product of two numbers is 1472 and their HCF is 8. Find their least common multiple. **[1]**
   a) 108
   b) 184
   c) 144
   d) 176

19) What will be the sum of $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \ldots + \frac{1}{n(n+1)}$? **[1]**

a) $\frac{n+1}{n}$ 　　　　　 b) $\frac{n+1}{2n}$

c) $\frac{n}{n+1}$ 　　　　　 d) $\frac{n(n+1)}{22}$

20) The denominator of a fraction is 2 more than the numerator. When the numerator is multiplied by 3 and the denominator is multiplied by 2, the fraction becomes $\frac{1}{2}$. What will be the given fraction? **[1]**

a) $\frac{2}{3}$ 　　　　　 b) $\frac{2}{5}$

c) $\frac{1}{3}$ 　　　　　 d) $\frac{1}{4}$

21) If one - third of a number is 6 more than that number, then find the number. **[1]**

a) - 5. 　　　　　 b) - 6.

c) - 7. 　　　　　 d) - 9.

22) A contractor employs 45 men to dig a canal 12 km long in 350 days. After 200 days, he finds that only 4.5 km of the canal is complete. How many additional men should he employ to complete the task on time? **[1]**

a) 35 　　　　　 b) 55

c) 50 　　　　　 d) 45

23) P, Q and R can complete a task in 15, 20, and 30 days, respectively. The contractor decides to hire any two of them to finish the job quickly. Which of these options is the best? **[1]**

a) Either PQ or QR 　　　　　 b) PQ

c) QR 　　　　　 d) RP

24) In a frequency distribution, the mid value of a class is 12 and its width is 6. What will be the lower limit of the class? **[1]**

a) 6 　　　　　 b) 12

c) 9 　　　　　 d) 18

25) The radius of a circular wheel is $\frac{7}{4}$ meters. How many revolutions does the wheel take to cover a distance of 22 kilometers? **[1]**

a) 1000 　　　　　 b) 2000

c) 100 　　　　　 d) 4000

26) Two cars start from Ahmedabad and travel in opposite directions, with one car moving 200 km/h faster than the other. If they are 4500 km apart after 9 hours, what is the sum of the speeds of the two cars? **[1]**

a) $500 Km/h$ 　　　　　 b) $150 Km/h$

c) $350 Km/h$ 　　　　　 d) $250 Km/h$

27) The average weight of 18 jackfruits is 7.2 kg. If 2 more jackfruits of the same weight are added to them, the average weight decreases by 20 gm. What is the weight of each jackfruit added later? **[1]**

a) 7.22 kg 　　　　　 b) 7.00 kg

c) 7.40 kg 　　　　　 d) 7.18 kg

28) By reducing the selling price of an item by ₹50.00, a profit of 5% turns into a loss of 5%. What is the actual selling price? **[1]**

a) ₹500.00 　　　　　 b) ₹550.00

c) ₹600.00 　　　　　 d) ₹525.00

29) The sum of the ages of 4 children born at an interval of 2 years is 28 years. What is the age of the youngest child? **[1]**

a) 3 years 　　　　　 b) 2 years

c) 5 years 　　　　　 d) 4 years

30) The following table shows the Air Quality Index (AQI) (PM2.5) for four weeks of February 2018. What is the difference between the average AQI in Kolkata and Delhi in the month of February?

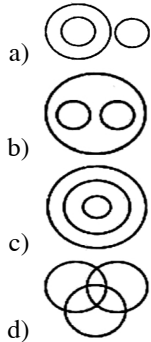| Toxic Trends Air Quality Index		
Period	**Calcutta**	**Delhi**
February 1st - 7th	306	248
February 8th - 14th	288	246
February 15th - 21st	274	246
February 22nd - 28th	172	236

[1]

a) 18 　　　　　 b) 12

c) 14 　　　　　 d) 16

रीजनिंग

31) Five friends A, B, C, D and E are sitting in a straight row facing north. A is not sitting exactly in the middle of the row. C is sitting 2nd from one end and 4th from the other end. B and D are sitting at the extreme ends of the row. Who is sitting exactly in the middle of the row? **[1]**

a) D 　　　　　 b) C

c) A 　　　　　 d) E

32) Six people are sitting around a circular table facing the centre. Alok is sitting to the immediate right of Sonu. Laddu is sitting third to the left of Alok. Soni is sitting third to the right of Sonu. Dimple is the nearest neighbour of both Laddu and Sonu. Sushma is not the nearest neighbour of Laddu. Who is sitting second to the right of Sushma? **[1]**

a) Alok 　　　　　 b) Sonu

c) Ladoo 　　　　　 d) Dimple

33) Select the option that will replace the question mark according to the logic set in the first pair.
Bowl: Soup:: Cup:? **[1]**

a) Taste 　　　　　 b) Spoon

c) Dish 　　　　　 d) Coffee

34) Select the option that belongs to the third character group in the same way that the second number belongs to the first character group.
ACE: 1925:: BDF:? **[1]**

a) 41635 　　　　　 b) 42536

c) 41636 　　　　　 d) 24661

35) Select the one that is different. **[1]**

a) 125 : 343 　　　　　 b) 64 : 216

c) 216 : 512 　　　　　 d) 343 : 728

36) C is the mother of K. K is the wife of H. R is the brother of K. P is the father of R. How is C related to P? **[1]**

a) Sister 　　　　　 b) Daughter

c) Wife 　　　　　 d) Brother's wife

37) If ORANGE is coded as QOCKIB, how will FELLOW be coded? **[1]**

a) HBNIQT 　　　　　 b) HNIBTQ

c) HBINTQ 　　　　　 d) HNBIQT

38) If 'Urdu', 'Sanskrit', 'History', 'Physics' and 'Economics' are known as 'Physics', 'History', 'Urdu', 'Economics' and 'Sanskrit' respectively, then in which subject do we study about Newton? **[1]**

a) Urdu 　　　　　 b) Physical Sciences

c) Economics 　　　　　 d) History

39) If the symbols for '+' and '- ' and '× ' and '÷ ' are interchanged in the following equation, then which number will come in place of question mark (?) in the equation?
$24 \times 6 \div 5 - 3 + 2 =?$ **[1]**
  a) 11
  b) 21
  c) 10
  d) 1

40) If P stands for '+', Q stands for ' - ', R stands for '× ' and S stands for '÷ ', find the value of the following expression.
$\frac{2}{3} s \frac{1}{3} Q 7 P 7R 5$ **[1]**
  a) 30
  b) 50
  c) 10
  d) 40

41) Consider the given argument and decide which of the given assumptions are implied.
Argument:
During an election, the opposition party said, look at the price rise in the last five years.
Assumption:
  i. Give your party a chance for power this time.
  ii. Even if you elect the same party to stay in power, prices will go up.
[1]

  a) Only assumption 2 is implied.
  b) Neither 1 nor 2 is implicit.
  c) Only assumption 1 is implicit.
  d) Both 1 and 2 are implicit.

42) What should be decided in this case?
The station is spread over a 2.5 kilometre stretch. The station has a network engineer and promises to provide speeds in excess of 100 KB per second. **[1]**

  a) The information provided is not sufficient to answer the question.
  b) The station will not receive Wi - Fi connectivity.
  c) The station will get Wi - Fi connectivity after 6 months.
  d) The station will receive Wi - Fi connectivity.

43)

D	I	N	S	?

[1]
  a) V
  b) W
  c) P
  d) X

44) 7, 56, 28, 224, 112,? **[1]**
  a) 846
  b) 900
  c) 920
  d) 896

45) Cariappa, Kargil, Katari, Manekshaw and Subroto are in five different houses in a Sainik School. Kargil is to the right of Subroto and Katari is to the left of Cariappa and to the right of Kargil. Subrata is to the right of Manekshaw. Which house is in the middle? **[1]**
  a) Cariappa
  b) Subroto
  c) Katari
  d) Kargil

46) If Sohan is taller than Mohan but shorter than Geeta and Mohan is taller than Meghna but taller than Komal, then Meghna _____ **[1]**
  a) Shorter than Komal
  b) Shorter than Sohan
  c) Shorter than Mohan
  d) Gita is taller than

47) Choose the correct water reflection of the figure below from the four options (answer figures) given.

Problem Figure

[1]
  a) D
  b) A
  c) C
  d) B

48) Five employees of the same company, Jagriti, Krishna, Laxman, Maya and Nirupam, live on five different floors of the same building. The lowest floor in the building is numbered 1, the floor above it is numbered 2, and so is the top floor, numbered 5. Krishna and Nirupam live on the top and bottom floors respectively. Jagriti lives on the floor just above Lakshman. Maya lives on the floor just above Nirupam. Who lives on the second floor? **[1]**
  a) Maya
  b) Awakening
  c) Krishna
  d) Laxman

49) Which word cannot be formed by the letters of the word "FLAMBOYANT"? **[1]**
  a) BOUT
  b) BOAT
  c) MOAN
  d) LAMB

50) Find the missing number -

4	7	13
5	7	13
6	9	?

[1]
  a) 7
  b) 9
  c) 13
  d) 12

51) Find the missing number -
$6, 5, 15, 10 = 91$
$8, 20, 7, 9 = 157$
$4, 13, 12, 18 =$? **[1]**
  a) 112
  b) 222
  c) 178
  d) 198

52) **Statement:**
All orchids are flowers.
Some orchids are beautiful.
Conclusion:
  i. Some flowers are beautiful.
  ii. All are beautiful flowers.
[1]

  a) Only conclusion II follows.
  b) Both conclusion I and II follow.
  c) Only the conclusion I follows.
  d) Either conclusion I or II follows.

53) **Question:** What is Damini's relationship with Bhola?
Statement:
  i. Tika has only one son, Bhola, and only one daughter, Kamala.
  ii. Damini is the wife of Roma's son. Kamala is Roma's only daughter. Meghan is Bhola's daughter.
[1]

  a) Both statement I and II together are sufficient to answer the question.
 b) The statement II alone is sufficient to answer the question, while the statement I alone is not sufficient.

c) Statement I alone is sufficient to answer the question, while statement II alone is not sufficient.

d) Both statement I and II together are not sufficient to answer the question.

54) Select the Venn diagram that best represents the relationship between the following classes.
Institutes, Hospitals, Universities **[1]**

a)

b)

c)

d)

55) The city of C is north of the city of F . The city O is east of the city F . The city Z , is west of the city O . The town Y is south of the city Z . The town C is northeast of the city Y . In which direction is the city C located relative to the city Z ? **[1]**
a) North
b) South - East
c) North - East
d) North - West

56) How many days will there be from 1st February, 2000 to 31st March, 2000 (both days inclusive)? **[1]**
a) 60
b) 59
c) 61
d) 58

57) A clock shows a time of 4 : 30. If the minute hand points to the east, which direction will the hour hand point? **[1]**
a) North West
b) North
c) South East
d) North East

58) How many triangles are there in the given figure?
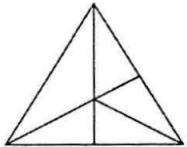
[1]
a) 15
b) 10
c) 12
d) 19

59) **Statement:**
$J > H = N \geq B \leq C < E$ **[1]**
a) $N > C$
b) $H < B$
c) $N > E$
d) $B < J$

60) Select the option that will fit in the blank space in the given picture series.

[1]

a)

b)

c)
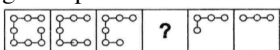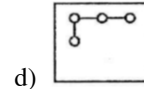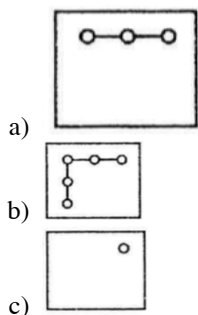
d)

सामान्य अध्ययन

61) Who laid the foundation of the city of 'Dinpanah' on the banks of the river Yamuna? **[1]**
a) Akbar
b) Shah Jahan
c) Humayun
d) Jahangir

62) Between the ninth and eleventh centuries, the _____ style was used for sculptures in Bengal (including Bangladesh) and Bihar. **[1]**
a) Mughal
b) Aryan
c) Pal
d) Gupta

63) Who is the author of 'Vaishnav Jan To', one of Mahatma Gandhi's favourite bhajans? **[1]**
a) Surdas
b) Mirabai
c) Narsingh Mehta
d) Dnyaneshwar

64) In 1896, Maharshi Dhondo Keshav Karve established an ashram in _____ to educate widows and other women, as he believed in empowerment through education. **[1]**
a) Madras
b) Surat
c) Puna
d) Nagpur

65) How many stages of life are prescribed in early Hindu philosophy? **[1]**
a) Four
b) Five
c) Two
d) Three

66) Who among the following is not a nationalist militant leader of the Indian National Congress? **[1]**
a) Bal Gangadhar Tilak
b) Bipin Chandra Pal
c) Surendra Nath Banerjee
d) Sri Aurobindo Ghosh

67) _____ was a movement of religious and social reform founded by Atmaram Pandurang in Bombay (Mumbai) in 1867. **[1]**
a) Satyashodhak Samaj
b) Prarthana Samaj
c) Brahmo Samaj
d) Arya Samaj

68) Which railway station is included in the UNESCO World Heritage Sites? **[1]**
a) Lokmanya Tilak Terminus
b) Anand Vihar Terminus
c) Kolkata Terminus
d) Chhatrapati Shivaji Maharaj Terminus

69) According to the findings of the 2011 census, which is the most densely populated state (excluding union territories) in India? **[1]**
a) Bihar
b) Goa
c) Tamil Nadu
d) Uttar Pradesh

70) Which of the following policies adopted by the **Government of India is not guided by the Directive Principles** of State Policy? **[1]**
a) Promotion of Gram Panchayats
b) Uniform Civil Code
c) Prohibition on consumption of alcoholic beverages
d) Preparation of building bye - laws

71) Which of these states did not have Panchayati Raj Institutions as of June 2022? **[1]**
a) Tripura
b) Nagaland
c) Arunachal Pradesh
d) Manipur

72) The interest rate offered on a savings bank account in India is decided by: **[1]**

    a) Reserve Bank of India
    b) Related Banks
    c) Bank Association
    d) Ministry of Finance

73) Which of the following statements about the real wage rate is true? **[1]**

    a) The real wage rate has no relation to the marginal productivity of labour.
    b) The real wage rate is lower than the marginal productivity of labour.
    c) The real wage rate is higher than the marginal productivity of labour.
    d) The real wage rate is equal to the marginal productivity of labour.

74) Why do photosynthetic experiments measure the presence of starch? **[1]**

    a) The glucose produced is converted into starch.
    b) Glucose is insoluble in water.
    c) Starch is formed as a result of photosynthesis.
    d) Starch is soluble in water.

75) Which enzyme requires the presence of hydrochloric acid to perform its function in the digestive process? **[1]**
    a) Trypsin   b) Lipase
    c) Amylase   d) Pepsin

76) An adult human normally passes about 1 to _____ of urine in 24 hours. **[1]**
    a) 3.0 litres   b) 1.2 litres
    c) 1.8 litres   d) 2.5 litres

77) Where do the roots of plants get oxygen from? **[1]**

    a) The roots do not require oxygen.
    b) From the water present in the soil
    c) Oxygen taken up by the pores reaches the roots.
    d) From the air gaps that exist between soil particles.

78) Which of the following cells is responsible for the transport, modification, and packaging of proteins and lipids in vesicles? **[1]**

    a) Golgi apparatus
    b) Smooth endoplasmic reticulum
    c) Rough endoplasmic reticulum
    d) Ribosome

79) It is formed by the combination of two or more elements - **[1]**
    a) Nuclear   b) Original
    c) Connectivity   d) Compound

80) What type of reaction is the electrolysis of water? **[1]**

    a) Displacement reaction
    b) Synthesis reaction
    c) Decomposition reaction
    d) Combination reaction

81) If the current passing through a conductor is doubled and the potential difference is tripled, the power will increase by _____. **[1]**
    a) Six times.   b) Three times
    c) Two - fold   d) Five times.

82) The _____ is a passive two - terminal electrical component that implements electrical resistance as a circuit element. **[1]**
    a) Resistor   b) Capacitor
    c) Diode   d) Transistor

83) The instrument used to measure temperature is _____. **[1]**
    a) Thermometer   b) Eudiometer
    c) Burette   d) Anemometer

84) Which of the following is an example of a thermonuclear fusion reaction? **[1]**

    a) Both nuclear and hydrogen bombs
    b) Hydrogen bomb
    c) Nuclear power generation
    d) Nuclear bomb

85) Which of the following terms is related to unsolicited email? **[1]**
    a) Updates   b) Backbone
    c) News Group   d) Spam

86) _____ and _____ are two types of sound effects files that can be added to Microsoft PowerPoint. **[1]**

    a) .wav files, .mid files
    b) .doc files, .gif files
    c) .jpg files, .pdf files
    d) .wav files, .jpg files

87) India's first cyber police station was set up in _____. **[1]**
    a) New Delhi   b) Kochi
    c) Bangalore   d) Chennai

88) Which of the following states or union territories has zero per cent forest cover? **[1]**
    a) Goa   b) Lakshadweep
    c) Haryana   d) Chandigarh

89) What is the full form of GEO? **[1]**

    a) Geostationary earth orbit
    b) Geography Earth orbit
    c) Geostructure element orbit
    d) Geographical Earth orbit

90) India's first building made of bio - bricks from agro - waste was inaugurated in _____. **[1]**
    a) IIT - Kharagpur   b) IIT - Kanpur
    c) IIT - Delhi   d) IIT - Hyderabad

91) How many naads are there in the Hindustani classical taal called Dadra taal? **[1]**
    a) 9   b) 3
    c) 12   d) 6

92) According to the United Nations, which year is considered the International Year of Indigenous Languages? **[1]**
    a) 2019   b) 2009
    c) 2007   d) 2018

93) Who is the Indian player who won bronze medal in eFootball at the 2024 Asian eSports Games in Bangkok? **[1]**
    a) Pawan Kampli   b) Bodi Parmar
    c) Saurabh Singh   d) Vipul Vikram

94) In which country, new tourist tax has come into effect from January 1, 2025? **[1]**
    a) Armenia   b) Hungary
    c) Russia   d) Mozambique

95) Who has won the U - 17 Girls Singles title at the British Junior Open 2025 in Birmingham, England? **[1]**

a) Anahat Singh   b) Richa Ghosh
c) Uma Chhetri   d) Deepti Sharma

96) Who has inaugurated the Grameen Bharat Mahotsav 2025? **[1]**
   a) Narendra Modi   b) Om Birla
   c) Dr. Jitendra Singh.   d) Jagdeep Dhankhar

97) The Karanja Irrigation Project is located in which state? **[1]**
   a) Andhra Pradesh   b) Karnataka
   c) Kerala   d) Maharashtra

98) Who has inaugurated the Kalagram in the Mahakumbh Nagar of Prayagraj in the year 2025? **[1]**

a) Gajendra Singh Shekhawat
b) Anandiben Patel
c) Dr. Jitendra Singh
d) Yogi Adityanath

99) Which Indian bowler has got the first position in the latest ICC Test Rankings in January 2025? **[1]**
   a) Jasprit Bumrah   b) Ravichandran Ashwin
   c) Yashasvi Jaiswal   d) Mohammed Siraj

100) Mumps disease seen in the news in 2024 is caused by which agent? **[1]**
   a) Bacteria   b) Virus
   c) Fungus   d) Protozoa