



## Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# RRB NTPC 2019 CBT 1 Question Paper (15-Mar-2021) (Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

## Instructions

1. Test will auto submit when the Time is up.
2. The Test comprises of multiple choice questions (MCQ) with one correct answers.
3. The clock in the top right corner will display the remaining time available for you to complete the examination.

## Navigating & Answering a Question

1. The answer will be saved automatically upon clicking on an option amongst the given choices of answer.
2. To deselect your chosen answer, click on the clear response button.
3. The marking scheme will be displayed for each question on the top right corner of the test window.

Your Personal Exams Guide

## RRB NTPC

1. Which of the following statements is correct? (+1, -0.333)
  - a. The 'Gandhi-Irwin Pact' was signed in 1926.
  - b. The Child Marriage Restraint Act was passed in 1929.
  - c. The Simon Commission arrived in India in 1932.
  - d. The Rowlatt Act was passed in 1909.

---

2. What will be the simple interest on ₹10,000 at 12% per annum for 5 years? (+1, -0.333)
  - a. ₹5,000
  - b. ₹6,000
  - c. ₹1,700
  - d. ₹500

---

3. The Padmanabha Swamy Temple is located in which city? (+1, -0.333)
  - a. Thiruvananthapuram
  - b. Madurai
  - c. Chennai
  - d. Mysuru

---

4. What is the value of  $\cot(15^\circ) - \tan(15^\circ)$ ? (+1, -0.333)
  - a.  $\frac{\sqrt{3}}{2}$

b. 2

c.  $2\sqrt{3}$

d. 4

---

5. India has signed a MoU in 2019 with which country on cooperation in the field of geology and mineral resources and traditional systems of medicine and homeopathy? (+1, -0.333)

a. Bolivia

b. Ireland

c. Namibia

d. Sri Lanka

---

6. Which Indian state has never been slipped to President's rule? (+1, -0.333)

a. Uttarakhand

b. Chattisgarh

c. Tamilnadu

d. Jharkhand

---

7. The Chabahar port is located in: (+1, -0.333)

a. Muscat

b. Afghanistan

c. Pakistan

d. Iran

---

8. Yash faced towards the west and moved 9 meters. Then he turned right (+1, -0.333) and moved 10 meters. He took a left turn and ran 2 meters. Once again he turned left and moved 10 meters. Now in which direction is Yash facing?

a. West

b. North

c. South

d. East

---

9. The speed of a CPU can be measured in ----- (+1, -0.333)

a. Horsepower

b. Bits per second (Bps)

c. Megahertz (MHz)

d. Lux

---

10. The Champaran Satyagraha is related to the: (+1, -0.333)

a. textile mills' strike

b. making of salt

c. indigo cultivation

d. leather production

---

11.  $-273.15^{\circ}\text{C}$  temperature is equal to: (+1, -0.333)

- a. 173 K
- b. 23 K
- c. 100 K
- d. 0 K

---

12. By how much is  $\frac{1}{6}$  th of 432 smaller than  $\frac{3}{4}$  th of 216? (+1, -0.333)

- a. 162
- b. 72
- c. 90
- d. -90

---

13. Simplify the following. (+1, -0.333)

$$98 \div 7 + 7 \times 3 - 22$$

- a. 13
- b. -1
- c. 4.9
- d. -17

---

14. Which one of the following substances undergoes sublimation? (+1, -0.333)

- a. Nitrogen
- b. Iodine
- c. Sucrose

d. Calcium

---

15. Select the numbers from the given options that will come next in the following series. (+1, -0.333)

2, 3, 5, 7, 11, 13, 17, ?, ?

a. 19, 21

b. 19, 23

c. 18, 19

d. 19, 25

---

16. If  $A : B = 2 : 3$ ,  $B : C = 2 : 3$  and  $C : D = 3 : 4$ , then  $A : D = ?$  (+1, -0.333)

a. 3 : 1

b. 2 : 4

c. 1 : 3

d. 1 : 2

---

17. The term 'byte' was coined by: (+1, -0.333)

a. Vint Cerf

b. Steve Jobs

c. Werner Buchholz

d. Larry Page

---

18. The Yellowstone National Park is located in: (+1, -0.333)

- a. Canada
- b. USA
- c. France
- d. Spain

---

19. Sunil and Kamal took loan of ₹40,000 each for 1 year 6 months from a moneylender who charged simple interest from Sunil @ 11% per annum and compound interest from Kamal @ 10% per annum compounded semi-annually. Who paid more interest and by what amount? (+1, -0.333)

- a. Kamal paid ₹195 more
- b. Sunil paid ₹295 more
- c. They paid equal interest
- d. Kamal paid ₹305 more

---

20. The PARAM 8000 supercomputer was released in which year? (+1, -0.333)

- a. 1988
- b. 2003
- c. 1991
- d. 1996

---

21. Who among the following used the safety valve theory and opined that the Indian National Congress was 'a product of the brain of Lord Dufferin'?

- a. Mahatma Gandhi

- b. Lala Lajpat Rai
- c. Jawahar Lal Nehru
- d. AO Hume

---

22. A shopkeeper incurred a loss of 10% by selling an item for ₹1,980. At what price (in ₹) should he sell that item to gain 15%? (+1, -0.333)

- a. 2,475
- b. 2,193
- c. 2,530
- d. 2,005

---

23. The venue of Asian games in 2022 will be : (+1, -0.333)

- a. Suzhou
- b. Hangzhou
- c. Beijing
- d. Guangzhou

---

24. Which one of the following is NOT correctly matched? (+1, -0.333)

- a. "Inquilab Zindabad"- Bhagat Singh
- b. "Give me blood and I will give you freedom"- Subhash Chandra Bose
- c. "Do or Die" – Lala Lajpat Rai

d. "Swaraj is my birth right" – Bal Gangadhar Tilak

---

25. Select the term that will come next in the following series. (+1, -0.333)

A4C, D9G, I16M, P25U, ?

- a. Y36Z
- b. X36D
- c. Y36E
- d. W36Z

---

26. If  $\cos x - 3 \sin x = \sqrt{3} \sin x$ , then the value of  $\tan x$  is: (+1, -0.333)

- a.  $\frac{3-\sqrt{3}}{6}$
- b.  $3 - \sqrt{3}$
- c.  $\sqrt{3}$
- d.  $3 + \sqrt{3}$

---

27. NABARD came into existence in: (+1, -0.333)

- a. 1990
- b. 1982
- c. 1977
- d. 2001

---

28. Rashi is the daughter of the mother-in-law of Rahul. How is Rashi related to Rahul? (+1, -0.333)

- a. Mother
- b. Sister
- c. Wife
- d. Mother's Sister

---

29. A retailer buys a bag containing 54 kg oranges at ₹25 per kg. Later upon sorting he finds that 4 kg oranges are rotten, he throws them and sells the remaining ones at ₹36 per kg. Find his profit percent. (+1, -0.333)

- a. 25%
- b. 30%
- c.  $33\frac{1}{3}\%$
- d. 40%

---

30. Which one of the following is a member of BIMSTEC? (+1, -0.333)

- a. Sri Lanka
- b. Vietnam
- c. Laos
- d. Cambodia

---

31. Select the number that will come next in the following series. (+1, -0.333)  
1, 1, 1, 2, 4, 8, 3, 9, 27, 4, 16, ?

- a. 49
- b. 54

c. 64

d. 32

---

32. Which one of the following books is authored by Maulana Abul Kalam Azad? (+1, -0.333)

a. India Wins Freedom

b. God of Small Things

c. Wings of Fire

d. We the people

---

33. The descending order of the fractions  $\frac{2}{3}, \frac{1}{6}, \frac{1}{5}, \frac{3}{7}$  is: (+1, -0.333)

a.  $\frac{3}{7}, \frac{2}{3}, \frac{1}{6}, \frac{1}{5}$

b.  $\frac{3}{7}, \frac{1}{6}, \frac{1}{5}, \frac{2}{3}$

c.  $\frac{2}{3}, \frac{3}{7}, \frac{1}{5}, \frac{1}{6}$

d.  $\frac{1}{6}, \frac{1}{5}, \frac{3}{7}, \frac{2}{3}$

---

34. Which one of the following statements is NOT correct? (+1, -0.333)

a. Solar system is 2.3 billion years old.

b. Planet Jupiter has maximum satellites in the solar system.

c. Planet Mercury is closest to the Sun.

d. Planet Venus has no natural satellite.

---

35. What was the name of the judge who presided over the trial of Mahatma Gandhi after the Non-Cooperation Movement? (+1, -0.333)

- a. Justice Harold Blacker
- b. Justice CN Broomfield
- c. Justice Adam Bittleston
- d. Justice Abdur Rahim

36. Golconda Fort is situated in which Indian state? (+1, -0.333)

- a. Karnataka
- b. Maharashtra
- c. Odisha
- d. Telangana

37. Which one of the following is an anti-tank guided missile? (+1, -0.333)

- a. Akash
- b. Trishul
- c. Prithvi
- d. Nag

38. Anupam and Vineet standing together started running in opposite direction on 2 km long circular racing track. They ran at the speeds of 9 km/h and 11 km/h respectively. After how much time will they meet on the track? (+1, -0.333)

- a. 6 min
- b. 12 min
- c. 10 min
- d. 20 min

---

39. Who of the following has won maximum medals in Olympics? (+1, -0.333)

- a. Michael Phelps
- b. Birgit Fischer
- c. Larisa Latynina
- d. Mark Spitz

---

40. Simplify the following. (+1, -0.333)

$$\left(\frac{\tan 40^\circ}{\operatorname{cosec} 50^\circ}\right)^2 + \left(\frac{\cot 40^\circ}{\sec 50^\circ}\right)^2$$

- a. 0
- b. 2
- c. 4
- d. 1

---

41. A man can complete a work in 20 days and a woman can complete the same work in 45 days. In how many days 2 men and 3 women can complete the same work? (+1, -0.333)

- a. 13 days
- b. 6 days

- c. 5 days
- d. 25 days

---

42. The SHREYAS programme was launched to speed up the process of ----- (+1, -0.333)

- a. providing industry-specific apprenticeship opportunities
- b. increasing literacy
- c. providing sports facilities
- d. making students politically active

---

43. The Kakrapar Atomic Power Station is located in: (+1, -0.333)

- a. Gujarat
- b. Tamilnadu
- c. Karnataka
- d. Kerala

---

44. Select the option that is related to the third number in the same way as the second number is related to the first number. (+1, -0.333)

89 : 178 :: 90 : ?

- a. 270
- b. 180
- c. 45
- d. 170

45. In a certain code language 'X' is written as 7, 'P' is written as 9, 'Z' is written as 6, 'M' is written as 5, 'L' is written as 3 and 'D' is written as 2. How will 'PLDXMZ' be written as in that language? (+1, -0.333)

- a. 952736
- b. 937526
- c. 932756
- d. 923576

46. Consider the given statement and decide which of the given assumptions is implicit in the statement. (+1, -0.333)

**Statement:**

The fundamental duties in Article 51A of the Indian Constitution obligates all citizens of the country.

**Assumptions:**

1. Without Constitutional obligations no Indian will be a good citizen.
2. Including Fundamental Duties in the Constitution is the only way to ensure that all citizens will fulfil them.

- a. Neither assumption 1 nor 2 is implicit.
- b. Only assumption 1 is implicit.
- c. Only assumption 2 is implicit.
- d. Either assumption 1 or 2 is implicit.

47. If polynomials  $4x^3 + ax^2 - 3x + 1$  and  $x^4 + x^3 - x^2 + 6$  leave the same remainder when each is divided by  $(x + 1)$ , then the value of a is: (+1, -0.333)

- a. -1
- b. 9
- c. 4
- d. 5

---

48. Select the number that can replace the question mark (?) in the following series. (+1, -0.333)  
5, 7, 11, ?, 35, 67

- a. 17
- b. 19
- c. 24
- d. 28

---

49. 40% of the first number is 12 and 50% of the second number is 24. The ratio of the first number to the second number is: (+1, -0.333)

- a. 4 : 5
- b. 8 : 5
- c. 1 : 2
- d. 5 : 8

---

50. Which Indian actress has been appointed by UN Secretary-General Antonio Guterres as the new advocate for the UN's ambitious Sustainable Development Goals in 2019? (+1, -0.333)

- a. Gauri Khan

- b. Aishwarya Rai
- c. Dia Mirza
- d. Sushmita Sen

---

51. Simplify the following. (+1, -0.333)

$$\frac{0.0625}{0.05}$$

- a. 1.25
- b. 125
- c. 0.0125
- d. 0.125

---

52. On which date did Jawahar Lal Nehru introduce the 'Objectives Resolution' in the Constituent Assembly? (+1, -0.333)

- a. 13<sup>th</sup> December, 1947
- b. 13<sup>th</sup> December, 1946
- c. 13<sup>th</sup> December, 1949
- d. 13<sup>th</sup> December, 1948

---

53. If the angles of a triangle are in the ratio 4 : 5 : 6, find the smallest angle (in °). (+1, -0.333)

- a. 48
- b. 36
- c. 24

d. 60

---

54. What is the SI unit of pressure? (+1, -0.333)

- a. Radian
- b. Pascal
- c. Steradian
- d. Ampere

---

55. A wheel completes 21000 revolutions covering a distance of 66 km. Find the radius of the wheel. (+1, -0.333)

- a. 1 m
- b. 2 m
- c.  $\frac{1}{2}$  km
- d.  $\frac{1}{2}$  m

---

56. With whom is the Statement of Intent (SOI) signed by NITI Aayog as part of the Atal Innovation Mission to open the Digital Disha Programme? (+1, -0.333)

- a. Adobe
- b. Google
- c. Microsoft
- d. Facebook

---

57. The mean of the squares of first ten natural numbers is: (+1, -0.333)

- a.  $\frac{77}{2}$
- b. 385
- c. 231
- d.  $\frac{11}{2}$

---

58. Which one of the following Indian wrestlers has NOT won an Olympic medal? (+1, -0.333)

- a. Geeta Phogat
- b. Sakshi Malik
- c. Yogeshwar Dutt
- d. Sushil Kumar

---

59. If (+1, -0.333)

$190 = 101$

$191 = 122$

$192 = 145$

$193 = 170$

$194 = ?$

Then, what number will replace the question mark?

- a. 192
- b. 195
- c. 197
- d. 193

---

60. Which of the following equations represent a line parallel to y-axis? (+1, -0.333)

- a.  $y = 3$
- b.  $x + 3 = 4 - 2x$
- c.  $2x + y = 0$
- d.  $y - 2 = 1$

---

61. If the mean of six observations 5, 7, 9,  $\alpha$ , 11 and 12 is 9, then the value of  $\alpha$  is : (+1, -0.333)

- a. 12
- b. 15
- c. 16
- d. 10

---

62. Fullerene is an allotropic form of: (+1, -0.333)

- a. Nitrogen
- b. Oxygen
- c. Hydrogen
- d. Carbon

---

63. Select the combination of letters that when sequentially placed in the blanks will create a repetitive pattern. (+1, -0.333)

pq \_ ppq \_ ppq \_ pp \_ pp

- a. pppq
- b. pqpq

c. qppp

d. pqqp

---

64. LCM of 14, 21, 25 and 70 is:

(+1, -0.333)

a. 105

b. 75

c. 210

d. 1050

---

65. Simplify the following.

(+1, -0.333)

$$(225 \div 25 - 10) \times 5 + 2 - 7 \times 3$$

a. -24

b. 84

c. 0

d. 56

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66. Which one of the following statements is NOT correct?

(+1, -0.333)

a. The stapes in the middle ear is the smallest bone of the human skeleton.

b. The human vertebral column has 38 vertebrae.

c. Bone marrow produces red blood cells in the human body.

d. Appendix is a vestigial organ in the human body.

---

67. Which one of the following is NOT correctly matched? (+1, -0.333)

- a. Smallpox vaccine – Edward Jenner
- b. Penicillin – Alexander Fleming
- c. Telephone – John Logie Baird
- d. Electric bulb – Thomas Alva Edison

68. If  $a^{2x} = b$ ,  $b^{2y} = c$ ,  $c^{2z} = a$  then the value of  $xyz$  is: (+1, -0.333)

- a. 1
- b. 8
- c. 0
- d.  $\frac{1}{8}$

69. Solve the following. (+1, -0.333)

$$\frac{\sqrt{196}}{7} \times \frac{\sqrt{441}}{7} \times \frac{120}{\sqrt{225}} = ?$$

- a. 54
- b. 58
- c. 84
- d. 48

70. A and B together can complete a task in 36 days. If B stops working after 30 days, the task will be completed in total 40 days. A alone can complete the task in: (+1, -0.333)

- a. 60 days

- b. 10 days
- c. 50 days
- d. 66 days

---

71. Which of the following is the ore of lead? (+1, -0.333)

- a. Bauxite
- b. Pyrolusite
- c. Galena
- d. Lemonite

---

72. A number when multiplied by  $\frac{6}{5}$  gives  $\frac{108}{125}$ . The number is: (+1, -0.333)

- a.  $\frac{18}{25}$
- b.  $\frac{625}{648}$
- c.  $\frac{648}{625}$
- d.  $\frac{25}{18}$

---

73. Article 21 of the Constitution of India deals with which of the following options? (+1, -0.333)

- a. Abolishment of untouchability
- b. Imposition of President's rule in states
- c. Personal liberty
- d. Free and compulsory education

---

74. Which institute brought out the second edition of the sign language dictionary in India? (+1, -0.333)

- a. NISHA
- b. IVRI
- c. ISLRTC
- d. AYJNISHD

---

75. If the perimeter and area of a square are numerically equal then the side of the square is: (+1, -0.333)

- a. 4 units
- b. 2 units
- c. 1 unit
- d. 16 units

---

76. The headquarters of Bharat Electronics Limited is located at: (+1, -0.333)

- a. Chennai
- b. Bengaluru
- c. Mumbai
- d. New Delhi

---

77. Find the greatest number that divides 58, 75, and 97 leaving 4, 3 and 7 respectively as remainders. (+1, -0.333)

- a. 14

- b. 18
- c. 34
- d. 2

---

78. Umesh and Kapil donated ₹750 and ₹975 respectively. The ratio of the amount of donation by Umesh to that by Kapil is: (+1, -0.333)

- a. 1 : 3
- b. 10 : 13
- c. 13 : 10
- d. 3 : 1

---

79. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.333)

**Statements:**

- 1. Bird is not fish.
- 2. All fish are dogs.

**Conclusions:**

- 1. All dogs are fish.
  - 2. All birds are dogs.
- a. Only conclusion 2 follows
  - b. Neither conclusions 1 nor 2 follows
  - c. Both conclusions 1 and 2 follow

d. Only conclusion 1 follows

---

80. Four ranks have been given, out of which three are alike in some manner (+1, -0.333) and one is different. Select the odd one.

- a. General
- b. Colonel
- c. Brigadier
- d. Admiral

---

81. Which one of the following Indian states does NOT share boundary with Maharashtra? (+1, -0.333)

- a. Odisha
- b. Karnataka
- c. Chhattisgarh
- d. Telangana

---

82. Asexual reproduction as in the case of amoeba in which an animal (+1, -0.333) reproduces by dividing into two individuals is called:

- a. transverse fission
  - b. longitudinal fission
  - c. simple fission
  - d. binary fission
-

83. In which country was the UN Climate Change Conference COP 25 2019 held? (+1, -0.333)

- a. Chile
- b. Spain
- c. Austria
- d. Norway

84. Select the letter that will come next in the following series. (+1, -0.333)  
A, C, F, J, O, ?

- a. U
- b. T
- c. Q
- d. S

85. Select the option that is related to the third term in the same way as the second term is related to the first term. (+1, -0.333)  
Doctor : Patient :: Teacher : ?

- a. Student
- b. Principal
- c. School
- d. Parents

86. A, B, C, D, E and F are six boys in a class. B is heavier than D but taller than A. A is heavier than B. D and E are shorter than A but heavier than F. (+1, -0.333)

C is shorter than B but taller than F.  
Who among them is the tallest?

- a. E
- b. D
- c. F
- d. B

87. Arrange the following words in the order in which they appear in an English dictionary. (+1, -0.333)

1. Bird
2. Birth
3. Brow
4. Bat
5. Blow

- a. 41523
- b. 45321
- c. 43215
- d. 41253

88. If  $B = 6$ ,  $T = 4$ ,  $Q = 8$  and  $R = 24$ , then  $R \times T \div Q + T = ?$  (+1, -0.333)

- a. 16
- b. 36
- c. 52
- d. 8

89. Read the given information carefully and answer the question that follows. (+1, -0.333)

Seven persons Mohit, Niraj, Jaya, Kavi, Amit, Kirti and Suman, are sitting around a circular table facing away from the centre. Amit is sitting second to the right of Suman. Kavi is sitting to the immediate right of Mohit. Niraj is sitting between Jaya and Amit.  
Who is sitting to the immediate right of Suman?

- a. Amit
- b. Kirti
- c. Kavi
- d. Mohit

90. Read the given information carefully and answer the question that follows. (+1, -0.333)

Akash and Puru are good in English and Hindi. Sumit and Akash are good in Hindi and Economics. Sumit, Aryan and Mayank are good in Economics and Botany. Mayank and Sumit are good in Economics and Zoology. Aryan and Puru are good in Botany and English.  
Who is good in English, Hindi and Botany?

- a. Puru
- b. Sumit
- c. Aryan
- d. Akash

91. Select the option that is related to the first term in the same way as the fourth term is related to the third term. (+1, -0.333)

Warrior : ? :: Sculptor : Chisel

- a. King
- b. Horse
- c. Sword
- d. War

---

92. In a certain code language FORMATION is written as ZPXTJOBPL and RACIAL is written as XJNBJQ. How will RATIONAL be written as in that language? (+1, -0.333)

- a. XJOBPLJQ
- b. JXOBPLJQ
- c. XJOBPJLQ
- d. JXOBPJLQ

---

93. Select the option that is related to the third term in the same way as the second term is related to the first term. (+1, -0.333)  
Flying : Bird :: Creeping : ?

- a. Fruit
- b. Aeroplane
- c. Snail
- d. Ground

---

94. Select the option that is related to the third term in the same way as the second term is related to the first term. (+1, -0.333)  
Wallet : Money :: Pendrive : ?

- a. Pocket
- b. Computer
- c. Data
- d. Storage

---

95. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.333)

**Statements:**

- 1. All teachers are philosophers.
- 2. All philosophers are mathematicians.

**Conclusions:**

- 1. All philosophers are teachers.
- 2. Some mathematicians are philosophers.

- a. Only conclusion 2 follows
- b. Only conclusion 1 follows
- c. Neither conclusions 1 nor 2 follows
- d. Both conclusions 1 and 2 follow

---

96. Four names have been given, out of which three are alike in some manner and one is different. Select the odd one. (+1, -0.333)

- a. Rajdhani Express
- b. Milan Rath Express

- c. Shatabdi Express
- d. Garib Rath Express

---

97. In a certain code language, 'Teachers and Students' is written as 'ANB', 'Principal live in School' is written as 'CLD', 'Students go School' is written as 'CRB' and 'Teachers live in Community' is written as LAF. How will 'Principal' be written as in that language? (+1, -0.333)

- a. C
- b. R
- c. D
- d. N

---

98. Six friends - A, B, C, D, E, F - sit in a circle facing the centre. A sits beside B and faces C. B is between A and D. D is facing F. Who is sitting between F and C? (+1, -0.333)

- a. A
- b. B
- c. E
- d. D

---

99. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one. (+1, -0.333)

- a. Degree
- b. College

- c. Polytechnic
- d. School

---

100. Four abbreviations have been given, out of which three are alike in some manner and one is different. Select the odd one. (+1, -0.333)

- a. CRPF
- b. BSF
- c. NDA
- d. ITBP

Prepp

Your Personal Exams Guide