



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 1)

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

NTPC

1. If $a - 5 = b$, then what is the value of $|a - b| + |b - a|$? (+1, -0.33)

- a. 5
- b. 10
- c. 0
- d. -5

2. A car covers a distance of 600 m in 5 min. What is the speed of car? (+1, -0.33)

- a. 8.2 km/h
- b. 8.5 km/h
- c. 7.2 km/h
- d. 9.2 km/h

3. If $x = 25$ and $y = 13$ then find: (+1, -0.33)

$$\sqrt{x^2 - 2xy + y^2}$$

- a. 10
- b. 38
- c. 13
- d. 12

4. The Kullu valley with the Lahaul and Spiti valleys in Himachal Pradesh is connected by the _____.

- a. Mayali pass
- b. Nathula pass
- c. Rohtang pass
- d. Bara-Lacha pass

5. What would be the highest value of X in the given equation? (+1, -0.33)

$$5Y6 + 6X7 + 3Z8 = 1511$$

- a. 6
- b. 7
- c. 9
- d. 5

6. A circle of radius 8 cm circumscribed a square. The length of the side of the square is: (+1, -0.33)

- a. $2\sqrt{2}$ cm
- b. $6\sqrt{2}$ cm
- c. $4\sqrt{2}$ cm
- d. $8\sqrt{2}$ cm

7. Which of the following is a "Maharatna" company? (+1, -0.33)

- a. Hindustan Aeronautics Limited
- b. Oil India Limited

- c. Bharat Petroleum Corporation Limited
- d. Bharat Electronics Limited (BEL)

8. If the difference between the compound interest and the simple interest on a certain sum of money for 2 years at 5% per annum is ₹16.32, find the sum (in ₹). (+1, -0.33)

- a. 6,538
- b. 6,529
- c. 6,526
- d. 6,528

9. Select the option that will fill in the blank and complete the given series. (+1, -0.33)

A9B, B125C, C49D, D729E, _ _ _ _

- a. G221H
- b. F122G
- c. E36F
- d. E121F

10. Walking at the rate of 3 km/h a man covers a certain distance in 8 hours. If the man runs at a speed of 16 km/h, then how much time will he take to cover the same distance? (+1, -0.33)

- a. 1.5 hours
- b. 2 hours

- c. 1 hour
- d. 2.5 hours

11. Durand cup is associated with which game? (+1, -0.33)

- a. Hockey
- b. Football
- c. Table tennis
- d. Basket ball

12. The original name of Mahabharata is: (+1, -0.33)

- a. Jaya Samhita
- b. Bhrgu Samhita
- c. Shiva Samhita
- d. Sushruta Samhita

13. The battle of Haldighati was fought in: (+1, -0.33)

- a. 1568
- b. 1584
- c. 1576
- d. 1552

14. Divide ₹20,609 between A and B, such that the amount (in ₹) of A after 7 years is equal to the amount (in ₹) of B after 9 years, if the interest being (+1, -0.33)

compounded yearly at 3% per annum.

a. $A = ₹10,605$

$B = ₹10,004$

b. $A = ₹10,601$

$B = ₹10,008$

c. $A = ₹10,509$

$B = ₹10,100$

d. $A = ₹10,609$

$B = ₹10,000$

15. The power of the President to promulgate ordinances during recess of the parliament is given in which article of the Indian Constitution? (+1, -0.33)

a. Article 123

b. Article 63

c. Article 352

d. Article 52

16. In which country did the environment ministers of the G7 nations meet in 2019 to discuss alarming report on the state of the planet? (+1, -0.33)

a. Germany

b. Canada

c. France

d. Italy

17. In a certain code language, SCHOOL is coded as the number 72. What number will FLOWER be coded as in that language? (+1, -0.33)

- a. 89
- b. 79
- c. 54
- d. 71

18. Which of the following is a membrane-bound sac filled with digestive enzymes? (+1, -0.33)

- a. Mitochondria
- b. Lysosomes
- c. Golgi apparatus
- d. Vacuoles

19. Mouse and ----- are also examples of input devices. (+1, -0.33)

- a. Speakers
- b. Printer
- c. Scanner
- d. Monitor

20. What is the name of the engineer who brought to light the ruins at Hampi? (+1, -0.33)

- a. Matthew Boulton

- b. Edward Barlow
- c. James Atkinson
- d. Colonel Colin Mackenzie

21. Pick the odd one out. (+1, -0.33)

Eastern Railway, Western Railway, West Coast Railway, East Coast Railway

- a. Eastern Railway
- b. West Coast Railway
- c. East Coast Railway
- d. Western Railway

22. If today is a Tuesday, what will be the 64th day from today? (+1, -0.33)

- a. Tuesday
- b. Thursday
- c. Wednesday
- d. Friday

23. Kolkata metro rail was opened for commercial services in _____. (+1, -0.33)

- a. 1980
- b. 1984
- c. 2004

d. 1992

24. Cobalt is present in which vitamin? (+1, -0.33)

a. Vitamin B1

b. Vitamin B5

c. Vitamin B3

d. Vitamin B12

25. Find the value of $\sqrt{58\frac{7}{9}}$ (+1, -0.33)

a. $7\frac{7}{9}$

b. $2\frac{7}{9}$

c. $2\frac{2}{3}$

d. $7\frac{2}{3}$

26. A and B can complete a piece of work in 56 and 70 days respectively. (+1, -0.33)
They began the work together but A left after some days and B finished the remaining work in 34 days. After how many days did A leave?

a. 12

b. 15

c. 16

d. 9

27. If $p : q = 9 : 2$, then find the ratio $(4p + 7q) : (4p - 7q)$ (+1, -0.33)

- a. 50 : 13
- b. 25 : 11
- c. 11 : 13
- d. 11 : 6

28. Ozone layer thickness is measured in: (+1, -0.33)

- a. Dobson unit
- b. decibels
- c. del unit
- d. Sievert unit

29. Tulughama is a: (+1, -0.33)

- a. water conservation method used by Akbar
- b. punishment given to criminals by Jahangir
- c. military strategy used by Babur
- d. tax imposed by Jahangir

30. 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, -0.33)

Statements:

- 1) All goats are cats.
- 2) All cats are rats.

Conclusions:

- 1) Some rats are cats
- 2) All rats are goat

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

31. Dholavira is in the State of: (+1, -0.33)

- a. Jharkhand
- b. Gujarat
- c. Rajasthan
- d. Chhattisgarh

32. 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, -0.33)

15 August : Freedom :: 26 January : ?

- a. Secularism
- b. Parliament
- c. Democracy
- d. Constitution

33. The second schedule of the Indian constitution deals with: (+1, -0.33)

- a. Forms of oaths and affirmations
- b. List of states & union territories
- c. Allocation of seats in council of states
- d. Salary of President, Governors, Chief Judges, Judges of High Court and Supreme Court

34. _____ was the largest producer of Uranium in the world in 2019. (+1, -0.33)

- a. Russia
- b. Australia
- c. Kazakhstan
- d. Namibia

35. The Ramsar Convention is for the: (+1, -0.33)

- a. conservation of soil fertility
- b. conservation of tropical forests
- c. conservation of wetlands
- d. control of ozone layer depletion

36. The selling price of 150 items is equal to the cost price of 125 items. What will be the percentage loss? (+1, -0.33)

- a. $16\frac{2}{3}$

b. $15\frac{1}{3}$

c. $11\frac{1}{9}$

d. $16\frac{1}{3}$

-
37. What will be the correct sequence of the following words if they are arranged as per their order in an English dictionary? (+1, -0.33)

Process, Possess, Purpose, Propose

- a. Possess, Purpose, Propose, Process
- b. Possess, Propose, Process, Purpose
- c. Possess, Process, Purpose, Propose
- d. Possess, Process, Propose, Purpose

-
38. Find the value of x. (+1, -0.33)

$$1\frac{1}{5} - 3\frac{2}{4} \div 1\frac{3}{4} \div (x + 3\frac{1}{8}) \div 1\frac{1}{7} = 1$$

- a. $x = 3\frac{3}{8}$
- b. $x = 7\frac{5}{8}$
- c. $x = 5\frac{5}{8}$
- d. $x = 3\frac{5}{8}$

-
39. Find the second term in a sequence of numbers that leaves the remainders 1, 2 and 7 when divided by 2, 3 and 8 respectively. (+1, -0.33)

- a. 38

b. 37

c. 48

d. 47

-
40. 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, -0.33)

Statements:

- 1) All boys are chefs.
- 2) All chefs are villagers.

Conclusions:

- 1) All boys are villagers.
- 2) All Chefs are boys

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

-
41. August Kranti is also known as the _____ Movement. (+1, -0.33)

- a. Khilafat
- b. Quit India
- c. Home Rule
- d. Swadeshi

42. What is the value of $\sin 15^\circ$?

(+1, -0.33)

a. $\frac{\sqrt{6}-\sqrt{2}}{3}$

b. $\frac{\sqrt{3}-\sqrt{2}}{4}$

c. $\frac{\sqrt{6}-\sqrt{2}}{2}$

d. $\frac{\sqrt{6}-\sqrt{2}}{4}$

43. Select the number that will come next in the following series.

(+1, -0.33)

2, 6, 12, 20, ?

a. 30

b. 35

c. 28

d. 25

44. Select the number that will come next in the following series.

(+1, -0.33)

4, 27, 16, 125, ?

a. 36

b. 18

c. 216

d. 24

45. Find the value of ab , if $a + b = 5$ and $a^2 - b^2 = 75$

(+1, -0.33)

- a. 25
- b. 50
- c. -50
- d. 10

46. _____ is a sulphur containing amino acid. (+1, -0.33)

- a. Cysteine
- b. Histidine
- c. Tryptophan
- d. Serine

47. The system of scientific naming or nomenclature of organism which we use today was introduced by which of the following scientists? (+1, -0.33)

- a. George Washington Carver
- b. Carolus Linnaeus
- c. Marie Curie
- d. Charles Darwin

48. A sucrose molecule contains _____ carbon atoms. (+1, -0.33)

- a. 15
- b. 18
- c. 6

d. 12

49. Who among the following was one of the finest calligraphers at Akbar's court, who was honoured with the title 'Zarrin Qalam' (golden pen)? (+1, -0.33)

- a. Abul Fazal
- b. Muhammad Husayn
- c. Daswant
- d. Basawan

50. Which of the following Indian states has minimum area? (+1, -0.33)

- a. Rajasthan
- b. Maharashtra
- c. Uttar Pradesh
- d. Madhya Pradesh

51. Article 17 of the Indian Constitution enforces the: (+1, -0.33)

- a. right to education
- b. right to freedom of religion
- c. joint sitting of both houses in certain cases
- d. abolition of the practice of untouchability

52. X-band synthetic aperture radar has been used in which satellite? (+1, -0.33)

- a. CARTOSAT-2B

- b. RISAT-2B
- c. INSAT-4B
- d. GSAT-12

53. Find the value of $3(x + y)$ if $x = \frac{\sqrt{3}+1}{\sqrt{3}-1}$ and $y = \frac{\sqrt{3}-1}{\sqrt{3}+1}$ (+1, -0.33)

- a. 10
- b. 8
- c. 12
- d. 13

54. EMISAT is which type of satellite launched by ISRO? (+1, -0.33)

- a. Remote-sensing satellite
- b. Communications satellite
- c. Navigation satellite
- d. Intelligence satellite

55. 10 nibbles are equal to _____ bits. (+1, -0.33)

- a. 60
- b. 40
- c. 20
- d. 80

56. National Highways Authority of India (NHAI) was set up in: (+1, -0.33)

- a. 2014
- b. 2002
- c. 1952
- d. 1988

57. A square park is surrounded by a path of uniform width 1.5 m all around it. (+1, -0.33)
The area of the path is 225 m^2 . Find the perimeter of the park.

- a. 144 m
- b. 144.5 m
- c. 143 m
- d. 142 m

58. 82% of a number is 738. What is 90% of that number? (+1, -0.33)

- a. 900
- b. 820
- c. 802
- d. 810

59. Consider 4th March to be a Wednesday in 2018. What day of the week will (+1, -0.33)
it be on 7th March in 2019?

- a. Sunday

- b. Monday
- c. Tuesday
- d. Wednesday

60. National Environmental Engineering Research Institute (NEERI) is located at: (+1, -0.33)

- a. Pune
- b. Nainital
- c. Indore
- d. Nagpur

61. If a sum invested at simple interest, triples itself in 8 years, how many times of itself will it be in 12 years? (+1, -0.33)

- a. 3.5 times
- b. 4 times
- c. 5 times
- d. 3 times

62. If $(a^2 + \frac{1}{a^2}) = 18$ then find $(a - \frac{1}{a})$ (+1, -0.33)

- a. 5
- b. 3
- c. 4

d. 2

63. Which of the following is NOT correctly matched? (+1, -0.33)

- a. Surat – Tapti river
- b. Lucknow – Gomati river
- c. Ujjain – Kshipra river
- d. Jabalpur – Jhelum river

64. Who won "All England Open Badminton Championships 2019" Men's Singles Title? (+1, -0.33)

- a. Mohammad Ahsan
- b. Hendra Setiawan
- c. Kento Momota
- d. Chen Yufei

65. Damodar Valley Corporation operates: (+1, -0.33)

- a. fertilizer plants
- b. cement plants
- c. thermal power stations
- d. pesticide plants

66. The domain of $\operatorname{cosec} x$ is: (+1, -0.33)

- a. $\mathbb{R} - \{n\pi | n \in \mathbb{Z}\}$

b. $\mathbb{R} - \{2n\pi | n \in \mathbb{Z}\}$

c. $\{n\pi | n \in \mathbb{Z}\}$

d. $\{2n\pi | n \in \mathbb{Z}\}$

67. Which of the following is a prime number?

(+1, -0.33)

a. 213

b. 173

c. 123

d. 143

68. The values of the mode and the mean are 25.2 and 27.5 respectively in a moderately asymmetrical distribution. Find the value of the median of the distribution.

(+1, -0.33)

a. 26.75

b. 26.7

c. 26.2

d. 26.73

69. Select the option that will fill in the blank and complete the given series.

(+1, -0.33)

MU, KS, IQ, GO, _ _ _

a. EL

b. DM

c. IQ

d. EM

70. Which of the following is NOT a GST rate slab in India? (+1, -0.33)

a. 18%

b. 28%

c. 5%

d. 10 %

71. 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, -0.33)

Music : Concert :: Acting : ?

a. Theatre

b. Song

c. Gymnastic

d. Dance

72. Pick the odd one out. (+1, -0.33)

Cow, Goat, Rabbit, Cat

a. Cat

b. Cow

c. Rabbit

d. Goat

73. Calculate the mean for following set of values - (+1, -0.33)

2.2, 4.2, 6.4, 8.3, 10.5

a. 6.5

b. 6.12

c. 6.32

d. 7

74. Which Indian state shares borders with China, Nepal and Bhutan? (+1, -0.33)

a. Mizoram

b. Nagaland

c. Sikkim

d. Arunachal Pradesh

75. Simplify. (+1, -0.33)

$$\frac{1}{5.8} + \frac{1}{8.11} + \frac{1}{11.14} + \frac{1}{14.17}$$

a. $\frac{4}{17}$

b. $\frac{4}{85}$

c. $\frac{24}{85}$

d. $\frac{2}{85}$

76. Muhammad Yunus was awarded Nobel Peace Prize for pioneering work in the field of _____. (+1, -0.33)

- a. civil rights
- b. afforestation
- c. water conservation
- d. microfinance

77. If $2x + y = 15$, $y + 2z = 17$ and $x + 2y = 9$, then the value of $4x + 3y + z = ?$ (+1, -0.33)

- a. 40
- b. 38
- c. 39
- d. 37

78. .PNG file is a/an: (+1, -0.33)

- a. audio file
- b. image file
- c. batch file
- d. video file

79. Consider the given statement and decide which of the given assumptions is/are implicit in the statement. (+1, -0.33)

Statement:

RTE has mandated compulsory enrolment of all children of the age 6 to 14 years in the schools.

Assumptions:

I: Enrollment needs to be made compulsory as children don't like education.

II: Each child of the country will get quality Education.

- a. Either assumption I or assumption II is implicit.
- b. Only assumption I is implicit.
- c. Neither assumption I nor assumption II is implicit.
- d. Only assumption II is implicit.

80. Which of the following element has maximum density? (+1, -0.33)

- a. Lead
- b. Platinum
- c. Mercury
- d. Osmium

81. Find the number of sides of a regular polygon if each interior angle is 165° . (+1, -0.33)

- a. 22
- b. 24
- c. 20
- d. 26

82. Which transport aircraft of the Indian Air Force is certified to fly on blended aviation fuel? (+1, -0.33)

- a. Sukhoi Su-30
- b. AN-32
- c. Mirage 2000
- d. MiG-29

83. When 106 is subtracted from a number, it reduces to its 47%. What is 11.5% of that number? (+1, -0.33)

- a. 32
- b. 31
- c. 23
- d. 13

84. Find the area of a triangle whose sides are 5 cm, 7 cm and 11 cm. (+1, -0.33)

- a. 12.27 cm^2
- b. 12.50 cm^2
- c. 12.97 cm^2
- d. 12.30 cm^2

85. The Olympic games of 2024 will be held in _____. (+1, -0.33)

- a. Los Angeles

- b. Ghana
- c. Tokyo
- d. Paris

86. Eight friends F1, F2, F3, F4, F5, F6, F7 and F8 are sitting around a circular table facing towards the centre (not necessarily in the same order). F2 is not the neighbour of F1 or F8. Only F6 is between F2 and F5. F2 is second to the left of F7. F4 is second to the right of F3. Which of the following could be correct position of F1? (+1, -0.33)

- a. Third to the left of F5
- b. Immediate left of F4
- c. Third to the left of F6
- d. Second to the left of F7

87. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.33)

ACEG : PRTV :: SUWY : ?

- a. HJLN
- b. GIKM
- c. HFDB
- d. HKLM

88. A question is given, followed by two arguments. Decide which of the arguments is/are strong with respect to the question. (+1, -0.33)

Question:

Should the sale and use of tobacco be completely banned in India?

Arguments:

I. Yes. Tobacco causes oral cancer and other diseases.

II. No. Millions of workers will lose their jobs.

- a. Both, (I) and (II) are strong.
- b. Only argument (I) is strong.
- c. Only argument (II) is strong.
- d. Neither (I) nor (II) is strong.

-
89. Seven boxes S, P, L, Q, R, M and N are placed one above the other (not necessarily in the same order). Only three boxes are placed between M and L. M and L are placed neither at the bottom nor at the top. Only two boxes are placed between L and N. S is immediately below R. There is only one box between S and Q. M is placed above L. How many boxes are placed between P and N? (+1, -0.33)

- a. Three
- b. One
- c. Two
- d. Four

-
90. Read the given information carefully and answer the question that follows. (+1, -0.33)

Five children P, Q, R, S, and T, are wearing different coloured clothes, red, yellow, pink, green and purple, but not necessarily in the same order.

Each one likes only one fruit out of mangoes, bananas, grapes, apples, and pears. R is in red clothes. Q does not like bananas and grapes. S likes apples and he is in purple clothes. The child in pink coloured clothes likes bananas. T likes mangoes, but is not in green or pink clothes. R likes grapes. Who likes pears?

- a. P
- b. Q
- c. R
- d. S

91. Pointing to a photograph, a woman said to a man, "She is the only child of the sister of the only son of your paternal grandfather". How is the man related to the person in the picture? (+1, -0.33)

- a. Brother
- b. Father's Sister's Son
- c. Sister
- d. Mother's Brother's Son

92. Pick the odd one out. (+1, -0.33)

Kathmandu, Thimphu, Dhaka, Karachi

- a. Karachi
- b. Dhaka
- c. Kathmandu

d. Thimphu

93. If $24\ B\ 6\ B\ 12 = 42$ and $31\ B\ 7\ B\ 13 = 51$, then $64\ B\ 9\ B\ 4 = ?$ (+1, -0.33)

a. 77

b. 76

c. 78

d. 79

94. In a certain code language, 'QZDH' is written as '51', 'PLMQ' is written as '54'. (+1, -0.33)
What is the code for 'DNRB' in that code language?

a. 36

b. 34

c. 33

d. 37

95. Select the option that is related to the third letter cluster in the same way (+1, -0.33)
as the second number is related to the first letter cluster.

ACE : 1925 :: BDF : ?

a. 41635

b. 24661

c. 42536

d. 41636

96. In a code language, CHILD is written as 412983. How would you write the word ADULT in the same code language? (+1, -0.33)

- a. 124983
- b. 14211220
- c. 142112
- d. 20122141

97. Read the given information and answer the question that follows. (+1, -0.33)

C is the sister of F. A is the father of B, husband of E and only son of D. D is the paternal grandfather of F and A does not have any sisters. How many children does A have?

- a. 2
- b. 4
- c. 1
- d. 3

98. Select the number from the given options that will replace the question mark in the given series. (+1, -0.33)

2, 4, 3, 3, 9, 6, 4, 16, ?, 5, 25, 15

- a. 18
- b. 15
- c. 10

d. 20

99. Pick the odd one out.

(+1, -0.33)

3-6, 4-8, 6-18, 8-32, 10-50

a. 4-8

b. 8-32

c. 6-18

d. 3-6

100. 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, -0.33)

Bed : Pillow :: Sofa : ?

a. Cushions

b. Sheets

c. Covers

d. Upholstery