RRB NTPC CBT-I Question Paper

UG 2021

Q.1 Forest Research Institute of India is located at

1. Guwahati
2. **Dehradun**
3. Shimla
4. Trivandrum

Q.2 Ram and Shyam can finish a task in 6 days working together. Shyam can finish that task alone in 8 days. How much time will Ram alone take to finish it?

1. 15 days
2. 12 days
3. 18 days
4. **24 days**

Q.3 Who is the author of 'Early History of India'?

1. K.A. Nilakanta Sastri
2. R.C. Majumdar
3. **Vincent Arthur Smith**
4. R.G. Bhandarkar

Q.4 Mary is taller than Aayushi, Gunjan is taller than Aayushi but shorter than Shalini, who is taller than Mary. Who among them is the tallest?

1. **Shalini**
2. Gunjan
3. Aayushi
4. Mary

Q.5 From the following options, identify the name of the user interface element that is found on desktops as a small blinking symbol or an arrow.

1. Icons
2. **Cursor**
3. Shortcut
4. Task-bar

Q.6 How many 7s are there in the following series which are not immediately followed by 3 but immediately preceded by 8?
898762263269732872778747794

1. 1
2. **3**

3. 7
4. 8

Q.7 In which year was the title 'Viceroy' given to 'Governor-General' of India?

1. 1876
2. 1857
3. 1905
4. **1858**

Q.8 Solve the following:
240 ÷ 8 × 512 ÷ 4

1. 3940
2. 3340
3. **3840**
4. 4040

Q.9 What was the main reason for calling off the Non-Cooperation Movement by Gandhiji in 1922?

1. Gandhiji was seriously ill
2. Gandhiji was arrested and compelled to stop the movement
3. **A police station at Chauri Chaura in Uttar Pradesh was set on fire by a mob**
4. The movement was completed by achieving the target.

Q.10 Ajmer is associated with the Sufi saint:

1. Bandanawaz Gisudaraz
2. **Khwaja Muinuddin Chishti**
3. Khwaja Nizamuddin Auliya
4. Baba Farid

Q.11 Which type of mirror is used by dentists to see large images of patients' teeth?

1. Convex mirror
2. **Concave mirror**
3. Spherical mirror
4. Spherical and Convex mirror

Q.12 Which other two countries were at the top in the world to possess an anti-satellite weapon system in 2010 when China became the third country?

1. The USA and Germany
2. The USA and India
3. Germany and Russia
4. **The USA and Russia**

Q.13 What will be the value of the following expression?
.25 ÷ 0.0025 × 0.025 × 25

1. 625
2. **62.5**
3. 0.625
4. 6.25

Q.14 An amount doubles itself at compound interest in five years. In how many years will it amount to sixteen times itself?

1. 25
2. 15
3. 16
4. **20**

Q.15 The blue colour of the sky is due to the:

1. dispersion of light
2. **scattering of light**
3. refraction of light
4. diffraction of light

Q.16 The population of a town is 10,000. If the male population increases by 5% and the female population by 10%, the population will become 10,800. How much of the town's present population is female?

1. 5000
2. 8000
3. **6000**
4. 7000

Q.17 The third Buddhist Council was held by:

1. Chandragupta
2. Kanishka
3. **Ashoka**
4. Harshvardhana

Q.18 Read the given statement and conclusions carefully and decide which of the conclusions logically follow(s) from the statement.
Statement:
Music is very good for peace of mind.
Conclusions:
I. Arijit Singh has a good voice.
II. Kishor Kumar was a famous singer.

1. **Neither of the conclusion follows.**
2. Only conclusion II follows.
3. Only conclusion I follows.
4. Both conclusions follow.

Q.19 Find the quotient of 0.5 ÷ 0.71 (correct to three decimal places)

1. 0.714
2. 0.706
3. **0.704**
4. 0.705

Q.20 The annual increase in percentage of a population is 5% and the present number of people is 16,000. What will be the population in three years?

1. 29,448
2. 24,448
3. **18,522**
4. 20,448

Q.21 Read the given statements and conclusions carefully and decide which of the conclusions logically follows from the statements.
Statements:
1. All boards are black.
2. All blacks are white.
Conclusions:
1. No white is black.
2. All black are boards.
3. All white are black.
4. All boards are white.

1. **4**
2. 1
3. 2
4. 3

Q.22 Kalidas Samman Award has been instituted by which state government?

1. Government of Chhatisgarh
2. Government of Maharashtra
3. Government of Rajasthan
4. **Government of Madhya Pradesh**

Q.23 Which one of the following is NOT an element?

1. **Silica**
2. Silicon
3. Germanium
4. Graphite

Q.24 What is not the main feature of FAME-2 India Scheme?

1. It is to encourage faster adoption of electric and hybrid vehicles

2. It plans to support 1 million electric two wheelers, 500,000 electric three wheelers, 55,000 electric four wheelers and 7000 electric buses
3. Total outlay will be ₹10,000 crore
4. Its target is only private transport vehicles

Q.25 Select the option that is related to the third term in the same way as the second term is related to the first term.
Clock: Time :: Thermometer: ?

1. Fever
2. Weather
3. Temperature
4. Illness

Q.26 As of October 2020, who among the following is the youngest Nobel Laureate?

1. Tsung-Dao Lee
2. Malala Yousafzai
3. Tawakkol Karman
4. Carl D. Anderson

Q.27 A train that is 110 m in length is running at 90 km/h. How much time will the train take to cross a bridge that is 180 m in length?

1. 11.6 s
2. 9.6 s
3. 10.6 s
4. 7.6 s

Q.28 When was the Planning Commission of India dissolved by the Union Government of India?

1. 2000
2. 2014
3. 2015
4. 2010

Q.29 What is the remainder when 2^{20} is divided by 3?

1. 2
2. 3
3. 0
4. 1

Q.30 Which fraction bears the same ratio to 1/27 as does 3/11 to 5/9?

1. 1/15
2. 1/99
3. 1/27
4. 1/55

Q.31 A man got a discount of 10% on sugar at Big Mart which allowed him to buy 25 kg more for ₹225/-. What is the discounted price and the original price of the sugar per kg?

1. 50p, ₹2
2. 70p, ₹2
3. 80p, ₹3
4. **90p, ₹1**

Q.32 The least number which on being divided by 2, 3, 4, 5 and 6 leaves a remainder of 1 but no remainder when divided by 7 is:

1. 322
2. 315
3. 308
4. **301**

Q.33 If a boy finds that he is 11th from the right in a line of boys and 5th from the left, how many boys should be added to the line so that there are 29 boys in the line?

1. 12
2. 13
3. 15
4. **14**

Q.34 What will be the value after simplifying this continued fraction?
1 / (2 + 1 / (3 + 1/4))

1. 43/5
2. 43/19
3. 5/19
4. **19/43**

Q.35 Murudeshwar Temple is situated on Kanduka Giri in the state of

1. Tamilnadu
2. Andhra Pradesh
3. Kerala
4. **Karnataka**

Q.36 Pointing to a lady Jayant says, "She is the sister of Prikshit, who is the brother of Dushyant and the brother of Abha." Abha is the sister-in-law of Jayant and she has only one sister. How is Jayant related to that lady?

1. Son
2. Father
3. **Husband**
4. Brother

Q.37 What is the value of (√5 + 1) / (√5 - 1)?

1. (3 - √5)/2

2. √5/2
3. 3√5/2
4. (3 + √5)/2

Q.38 Jaya and Hema can clean an apartment in 30 days. Hema and Sushma can do the same task in 40 days, while Jaya and Sushma take 60 days to do it. How many days will it take all three of them working together to clean the apartment?

1. 15 2/3
2. 20 2/3
3. 6 2/3
4. 26 2/3

Q.39 How many Indian states share their boundaries with Nepal?

1. 5
2. 4
3. 8
4. 3

Q.40 What is the name of India's first planned manned space flight?

1. Gaganyaan
2. Gagan Viman
3. Pushpakyaan
4. Vayuyaan

Q.41 Find the variance of the following data points:
6, 7, 5, 9, 12, 15

1. 37/6
2. 67/6
3. 81/3
4. 37/3

Q.42 Which is the outermost part of the earth?

1. Mantle
2. Core
3. Crust
4. Asthenosphere

Q.43 A computer monitor is also known by the name:

1. CCTV
2. LED
3. CPU
4. VDU

Q.44 Which is the Sixth largest country of the world in terms of area?

1. China
2. India
3. Australia
4. Brazil

Q.45 Which of the following is a cartilaginous fish?

1. Shark
2. Rohu
3. Salmon
4. Tuna

Q.46 On which of the following occasions the lunar eclipse occurs?

1. First quadrature
2. New moon
3. Full moon
4. Third quadrature

Q.47 Which ministry of Government of India has published Goods and Service Tax (GST) Act, 2017?

1. Ministry of Law and Justice
2. Office of the Prime Minister
3. Ministry of Corporate Affairs
4. Ministry of Finance

Q.48 Find the number whose four-fifth is more than its three-fourth by 4.

1. 70
2. 80
3. 100
4. 90

Q.49 Of which of the following organisations is India NOT a member?

1. Shanghai Cooperation Organisation (SCO)
2. G20
3. United Nations (UN)
4. North Atlantic Treaty Organisation (NATO)

Q.50 Find the angle of elevation of a $200\sqrt{3}$ m tower's top from a point 200 m away from its base.

1. 90°
2. 30°
3. 45°
4. 60°

Q.51 In a triangle ABC, incenter is at O. Find angle BAC if angle BOC = 110°.

1. 50°

2. 20°
3. 40°
4. 30°

Q.52 What do we call the force which affects the direction of wind and is caused by the rotation of the earth on its axis?

1. Frictional force
2. Pressure gradient force
3. Gravitational force
4. Coriolis force

Q.53 Three bells started tolling together. Each of them then tolls after 0.25 sec, 0.1 sec and 0.125 sec. After how many seconds will they again toll together?

1. 0.1
2. 0.2
3. 0.5
4. 0.6

Q.54 What is the area of the largest square that is inscribed in a semicircle of radius 10 cm?

1. 70 cm^2
2. 90 cm^2
3. 80 cm^2
4. 120 cm^2

Q.55 If MOBILE = LMYEGY, then SONG will be equal to:

1. RMKC
2. RMCK
3. TPHM
4. TPMH

Q.56 What is the square root of $(x^2 - 14x + 49)(x^2 + 6x + 9)$?

1. $(x - 4)(x + 9)$
2. $(x - 7)(x + 3)$
3. $(x - 1)(x + 17)$
4. $(x - 3)(x + 8)$

Q.57 The main aim of the 'Ganga Action Plan' is:

1. Efficient use of Ganga water for irrigation
2. Reduction of pollution in Ganga river
3. Efficient use of Ganga water for drinking purpose
4. Using Ganga river for generating hydel energy

Q.58 Select the option in which the words share the same relationship as that shared by the given pair of words.
Bag : Leather

1. Mobile : Network
2. **Plastic : Polymers**
3. Water : Drinking
4. Suitcase : Travel

Q.59 How will you write 7.45 hours in hours, minutes and seconds?

1. 7 hours, 20 minutes, 7 seconds
2. **7 hours, 27 minutes, 0 seconds**
3. 7 hours, 40 minutes, 5 seconds
4. 7 hours, 45 minutes, 0 seconds

Q.60 What is Ram's average speed if he goes from Point X to Point Y at 8 km/hr and returns from Point Y to Point X at 12 km/hr?

1. 8.6 km/hr
2. 10.6 km/hr
3. **9.6 km/hr**
4. 15.6 km/hr

Q.61 Read the given statements and conclusions carefully and decide which of the conclusions logically follows from the statements.
Statements:
1. Some bags are books.
2. All pen are books.
Conclusions:
1. All bags are pens.
2. All bags are books.
3. No pen is a book.
4. No pens are bag.

1. 2
2. 1
3. **4**
4. 3

Q.62 Two-fifth of Narendra's salary is equal to Amit's salary and seven-ninth of Amit's salary is equal to Arun's salary. If the sum of the salaries is 2770, what are the respective salaries of Narendra, Amit and Arun (in ₹)?

1. **450, 180, 140**
2. 450, 140, 180
3. 180, 140, 450
4. 180, 450, 140

Q.63 The number of non-permanent members of the UN Security Council is:

1. 9
2. **10**
3. 12
4. 11

Q.64 A financial assistance of _____ rupees will be given to the community health centres so that they can be strengthened to meet the standards of sanitation, hygiene and infection control under the 'Swachh Swasth Sarvatra'.

1. 20 Lakh
2. 12 Lakh
3. 15 Lakh
4. **10 Lakh**

Q.65 Study the given figures/information: Doctors (17), Artists, Players. How many doctors are neither artists nor players?

1. 12
2. **17**
3. 13
4. 15

Q.66 In July 2020, Prime Minister Narendra Modi inaugurated the new Supreme Court Building of _____ which was completed with Indian assistance.

1. Bhutan
2. Afghanistan
3. **Mauritius**
4. Maldives

Q.67 An article is bought for ₹250. What should be its selling price so as to gain 10% as profit?

1. **₹275**
2. ₹290
3. ₹250
4. ₹260

Q.68 The first general election of Lok Sabha was held in the year:

1. 1957-1958
2. 1953-1954
3. **1951-1952**
4. 1949-1950

Q.69 A question is given followed by two arguments. Decide which of the arguments is/are strong with respect to the question.
Question: Should the illiterates be debarred from casting their votes?
Arguments:

I. Yes, they can be easily misguided.
II. No, it is their constitutional right.

1. Only argument I is strong.
2. **Only argument II is strong.**
3. Both argument I and II are strong.
4. Neither argument I nor II is strong.

Q.70 What is RDX?

1. An instrument to measure current
2. A chemical used in the manufacturing of pesticides
3. **An explosive**
4. An instrument to measure blood pressure

Q.71 Who among the following shall communicate to the President all the decisions of the council of ministers under article 78?

1. Home Minister
2. **Prime Minister**
3. Vice-President
4. Foreign Minister

Q.72 Solve the following:
$800 \div (11 \times 24 \div 8 \times 3 - 69)^2$

1. **2**
2. 3
3. 5
4. 4

Q.73 Select the option that is related to the third term in the same way as the second term is related to the first term.
Ranthambore : Tiger :: Kaziranga : ?

1. Spotted Hyena
2. **One-horned Rhinoceros**
3. Wild Ass
4. Asiatic Lion

Q.74 Sonal Mansingh is famous for:

1. Singing
2. Acting
3. Playing
4. **Dance**

Q.75 Select the option that can replace the question mark (?) in the following series.
L34E, O46H, R58K, U70N, ?

1. **X82Q**

2. X41Q
3. X82P
4. X41M

Q.76 Who was known as the 'Iron Man of India'?

1. Sardar Vallabhbhai Patel
2. Jawahar Lal Nehru
3. Subhash Chandra Bose
4. Narendra Modi

Q.77 Due to a cyclone, a tree is broken and makes an angle of 30° with the ground. The distance between the root and the tip of the tree that touches the ground is 10 m. What is the height of the tree?

1. √3 m
2. 20√3 m
3. 10/√3 m
4. 10√3 m

Q.78 Which of the following options gives the value of $1999^2 - 999^2$?

1. 3000000
2. 2988000
3. 2998000
4. 1000000

Q.79 Who is the first chairperson of the NITI Aayog?

1. Arun Jaitley
2. Narendra Modi
3. Arvind Panagariya
4. Amitabh Kant

Q.80 Who among the following was involved in Alipore Bomb Case?

1. Sri Aurobindo
2. Chandrashekhar Azad
3. Ramprasad Bismil
4. Bhagat Singh

Q.81 What is the correct full form of NABARD from below?

1. National Bank for Asian Research Development
2. National Bank for Agriculture and Resource Development
3. National Bank for Agriculture and Rural Development
4. National Bank for Agri Related Development

Q.82 If one of the roots of the equation $x^2 - 19x + 88 = 0$ is 8, then what is the other root?

1. 17

2. 12
3. 13
4. 11

Q.83 If a solution changes the colour of blue litmus paper to red, what will the pH of this solution be?

1. less than 7
2. 14
3. more than 7
4. 7

Q.84 The Government of India celebrates _____ every year as 'Civil Services Day' for the civil servants to rededicate themselves to the cause of citizens and renew their commitment to public service and excellence in work.

1. 21 January
2. 21 October
3. 21 May
4. 21 April

Q.85 If the ratio of the heights of two cones is 1:4 and the diameters are in ratio 4:5, then what is the ratio of their volumes?

1. 4:25
2. 13:25
3. 7:17
4. 5:9

Q.86 Based on the expenditure bar chart (DELHI, MUMBAI, CHENNAI, CHANDIGARH), which city has the maximum expenditure by an individual in a month?

1. Mumbai
2. Chandigarh
3. Delhi
4. Chennai

Q.87 Based on the expenditure bar chart, which city has the highest gap in minimum and maximum expenditure by an individual in a month?

1. Chandigarh
2. Delhi
3. Mumbai
4. Chennai

Q.88 Based on the expenditure bar chart, what is the total expenditure on clothes as an approximate percentage of the total expenditure on Rent across all 4 cities?

1. 57%
2. 60%

3. 51%
4. 53%

Q.89 Based on the expenditure bar chart, in which city is the expenditure on movies nearest to the average expenditure on movies across all four cities?

1. Chandigarh
2. Mumbai
3. Delhi
4. Chennai

Q.90 Identify the number that does NOT belong to the following series:
289, 306, 340, 389, 459, 544

1. 289
2. 459
3. 389
4. 306

Q.91 Select the number that can replace the question mark (?) in the following series.
12.24, 48.96, 192.384, ?

1. 768.1546
2. 768.1536
3. 748.1526
4. 758.1536

Q.92 Read the following information:
1. Rohit, Shobhit and Manu play volleyball, tennis and Kho-Kho.
2. Rohit, Ashu and Manu play volleyball, tennis and badminton.
3. Rohit, Shobhit, Dalip and Manu play Kho-Kho and tennis.
Which game is played by all the boys?

1. Kho-Kho
2. Tennis
3. Badminton
4. Volleyball

Q.93 A team of five members is sitting in a row facing towards the north. C is to the left of A and to the right of E. B is to the left of D and to the right of A. Who is sitting in the middle?

1. C
2. D
3. A
4. B

Q.94 Select the option in which the words share the same relationship as that shared by the given pair of words.
Photosynthesis : Sun Light

1. Book : Magazine
2. **Writing : Pen**
3. Printer : Deskjet
4. Fan : Light

Q.95 How will you write 3.78 hours in hours, minutes and seconds?

1. 3 hours, 45 minutes, 33 seconds
2. **3 hours, 46 minutes, 48 seconds**
3. 3 hours, 7 minutes, 8 seconds
4. 4 hours, 18 minutes, 0 seconds

Q.96 Select the option that is related to the third term in the same way as the second term is related to the first term.
Tongue : Taste :: Lungs : ?

1. Perspiration
2. Circulation
3. Cognition
4. **Respiration**

Q.97 Select the letter that can replace the question mark (?) in the following series.
A, C, E, G, I, K, ?

1. L
2. M
3. N
4. **O**

Q.98 Select the letter that can replace the question mark (?) in the following series.
L, J, H, F, D, ?

1. **B**
2. C
3. E
4. A

Q.99 Three friends, A, B and C work in an office, in the IT, HR and Banking departments. A works in the banking department and works 8 hours a day; but, the one who works in the HR department works only 5 hours a day. B is lazy and does not like to work the entire day. B has maths background but is not part of the banking department. Who works in HR department?

1. C
2. B
3. A
4. **Either B or C**

Q.100 Select the number that can replace the question mark (?) in the following series.
5, 9, 17, 33, 65, ?

1. 130
2. 131
3. **129**
4. 128