



RRB NTPC Previous Year Paper 20

Q1. Leukemia is a type of human disease which is

- (a) a cancer of the white blood cells
- (b) caused by deficiency of vitamins
- (c) a cancer in the brain
- (d) caused by an overdose of proteins

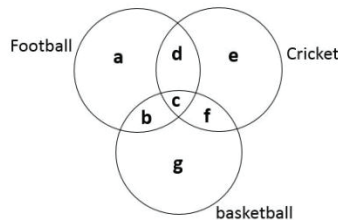
Q2. If $\sqrt{625} = 25$; then $\sqrt{(.000000625/25)}$ is:

- (a) 0.0025
- (b) 0.001
- (c) 0.0001
- (d) 0.0005

Q3. 30 pens and 75 pencils were purchased for Rs. 390. If the average price of a pencil is Rs. 2.00, then calculate the average price (in Rs.) of a pen.

- (a) 6
- (b) 4
- (c) 8
- (d) 12

Directions (4 -6): The figure given below consists of three intersecting circles which represent sets of students who play Football, Cricket and Basket Ball. Each region in the figure is represented by a small letter.



Q4. Which region represents the set of persons who play Football and Basket Ball but not Cricket?

- (a) Region g
- (b) Region e
- (c) Region c
- (d) Region b

Q5. Which region represents the set of persons who play Football but neither Cricket nor Basket Ball?

- (a) Region a
- (b) Region b
- (c) Region c
- (d) Region d

Q6. Which region represents the set of persons who play all the three games?

- (a) Region b
- (b) Region c
- (c) Region f
- (d) Region g

Q7. Hemant said to Naitik, "That boy playing with the football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Hemant?

- (a) Son
- (b) Brother
- (c) Cousin
- (d) Nephew

Q8. Which of the following is not an output device?

- (a) Plotter
- (b) Speaker
- (c) Printer
- (d) Scanner

Q9. _____ was the first satellite launched by U.S in 1958.

- (a) Sputnik 1
- (b) Apollo 11
- (c) GSAT
- (d) Explorer 1

Q10. Two pipe, A & B can fill a tank in 12 & 16 minutes respectively. Both pipes are opened together, but 4 minute before the tank is full, pipe A is closed. In how many minutes will the tank be full?

- (a) 9 minutes 8 seconds
- (b) 10 minutes 9 seconds
- (c) 11 minutes 19 seconds
- (d) 11 minutes 29 seconds

Q11. Name the monument which signifies the "seat of the holy Buddha" where it is believed that Lord Buddha delivered his first sermon.

- (a) Dhamekh Stupa, Sarnath
- (b) Sanchi Stupa, Sanchi
- (c) Shingardar Stupa, Swat valey
- (d) Dro-dul Chorten, Gangtok

Q12. Complete the Figure X from the given alternatives 1, 2, 3, 4



(X)



(1)



(2)



(3)



(4)

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

Directions (13 -15): Based on the below given information, answer the questions:

In an Exhibition, seven air conditioners of different companies – LG, Carrier, Samsung, Godrej, Whirlpool, Hitachi and Videocon are kept facing east in the following order :

LG is next to right of Videocon.

Videocon is fourth to the right of Samsung.

Godrej air conditioner is between air conditioner Carrier and Hitachi.

Samsung, which is third to the left of air conditioner Carrier, is at one end.

Q13. Which one of the following statements is correct?

- (a) Videocon air conditioner is in between air conditioner Carrier and Samsung.
- (b) LG is next left to Whirlpool air conditioner.
- (c) Videocon is next right of L.G.
- (d) Godrej is fourth right of Whirlpool.

Q14. Which of the following groups of air conditioners is to the right of air conditioner Carrier?

- (a) L.G, Videocon and Godrej
- (b) Whirlpool, L.G and Videocon
- (c) Godrej, Hitachi and Samsung
- (d) Hitachi, L.G and Videocon

Q15. Which of the following statements is correct?

- (a) Godrej is next left of air conditioner Carrier.
- (b) Hitachi is next left of Samsung.
- (c) Hitachi is at one end.
- (d) Samsung is next second to the right of Godrej.

Q16. Abdur Rahman and British Raj representative Mr. Mortimer signed an agreement establishing _____.

- (a) Radcliffe Line
- (b) Durand Line
- (c) Mortimer Line
- (d) Macmohan Line

Q17. Four words are given below out of which three are alike in some manner and one is different. Which one is different from the rest?

- (a) Tower
- (b) Sea
- (c) Valley
- (d) Mountain

Q18. Name the committee, appointed to identify the creamy layer among the OBCs, which submitted its report in 1993 and was accepted?

- (a) Dr. K M Munshi Committee
- (b) G V Mavalankar Committee
- (c) Ram Nandan Committee
- (d) Swaran Singh Committee

Q19. What is the cause of bio-magnification (or bio-accumulation)?

- (a) Ozone
- (b) Organochlorines
- (c) Lichens
- (d) Proteins

Q20. Which of the following power houses is/are associated with Damodar Valley Project?

- I. Durgapur II. Chandrapura
- III. Maithon IV Hampi

Choose the right option.

- (a) Only I and II
- (b) Only II and III
- (c) I, II and III
- (d) I, II, III and IV

Q21. Construction of the Qutub Minar, the world's tallest brick minaret commenced in 1193, under the orders of _____, the founder of the Delhi Sultanate.

- (a) Firoz Shah Tughlaq
- (b) Qutub-ud-din Aibak
- (c) Iltumish
- (d) Quli Qutub Shah

Q22. Krishnanattam is a famous dance of which of the following states?

- (a) Andhra Pradesh
- (b) Karnataka
- (c) Kerala
- (d) Tamilnadu

Q23. The Chief Election Commissioner of India holds the office for _____.

- (a) 60 years of age or for six years, whichever early
- (b) 65 years of age or for six years, whichever early
- (c) 70 year of age or for six years, whichever early
- (d) 55 year of age or for five years, whichever early

Q24. Who among the following musicians who lived between 1253 and 1325 AD, was traditionally considered as the inventor of tabla and sitar?

- (a) Tansen
- (b) Amir Khusro
- (c) Swami Shastri
- (d) Baiju Bawra

Q25. A thief is 400 m ahead of a policeman. The thief started running and the policeman started chasing simultaneously. Assuming the speed of thief be 10km/h & policeman be 15 km/h, calculate the distance (in metres) covered by thief before the policeman caught the thief?

- (a) 750 m
- (b) 800 m
- (c) 850 m
- (d) 900 m

Q26. Oil zapper technology to remove oil spills in ocean, is developed by?

- (a) IIT
- (b) TERI
- (c) CSE
- (d) ISRO

Q27. The Union Government has released a commemorative postage stamp to mark the Centenary year of _____, which is the apex institution on fauna taxonomy in India.

- (a) Zoological Survey of India.
- (b) Archaeological Survey of India
- (c) National Animal Species Survey of India
- (d) National Sample Survey Organization

Q28. Which Bank launched India's first contactless mobile payment solution?

- (a) AXIS
- (b) SBI
- (c) ICICI
- (d) HDFC

Q29. The presence of ozone in the _____ prevents sun's harmful ultraviolet (UV) radiations from reaching the earth's surface.

- (a) Troposphere
- (b) Mesosphere
- (c) Stratosphere
- (d) Thermosphere

Q30. If $\sqrt{5} = 2.236$; then $\sqrt{5} / \sqrt{2}$ is:

- (a) 1.581
- (b) 1.851
- (c) 2.236
- (d) 1.782

Q31. The HCF of two numbers is 16 and their difference is 16. Find the numbers.

- (a) 64, 80
- (b) 72, 88
- (c) 80, 100
- (d) 96, 120

Q32. In 2001, the production of sugar is 1584 million kgs which is 20% more than that in 1991. Find the production (in million kgs) of sugar in 1991.

- (a) 1980
- (b) 1280
- (c) 1300
- (d) 1320

Q33. Who has been selected to the board of governors of the World

Water Council (WWC) for 2016-18 in the 7th general assembly of WWC held at Marseille, France?

- (a) Chaudhary Birender Singh
- (b) Ram Kripal Yadav
- (c) Sanwar Lal Jat
- (d) Prithivi Raj Singh

Q34. There are over ____ capillaries in our lungs.

- (a) 100 million
- (b) 200 million
- (c) 400 million
- (d) 300 million

Q35. In a certain code language, if MOBILE is coded as 713694 and TBLET is coded as 253942, then BALLET will be coded as?

- (a) 329954
- (b) 359942
- (c) 395942
- (d) 359429

Q36. A & B can finish a work in 12 days, B & C in 15 days and A & C in 20 days. In how many days would A alone finish the work?

- (a) 20
- (b) 30
- (c) 40
- (d) 60

Q37. _____ is the first indigenous aircraft of India designed and built by HAL.

- (a) HF 25 MKI
- (b) HF 24
- (c) HT 3 MKI
- (d) HF 28

Q38. A tennis player, won 18 games out of 27 games played. Calculate the games won in terms of decimal.

- (a) 0.667
- (b) 0.067
- (c) 0.50
- (d) 0.333

Q39. The value of $\tan 45^\circ$ is:

- (a) $\sqrt{3}$
- (b) $\sqrt{3/2}$
- (c) $1/\sqrt{3}$
- (d) 1

Q40. The expenses of a person increases by Rs. 5000 for every month in February and March. If his expenses in January was Rs. 5000, Calculate his average expenditure (in Rs.) from January to March.

- (a) 10000
- (b) 15000
- (c) 7500
- (d) 5000

Q41. If Rahul walks at 4 km/h, he reaches office late by 10 minutes of the scheduled time. If he walks at 5 km/h he reaches office 5 minutes ahead of scheduled time. Calculate the distance of his office from his home.

- (a) 4 km
- (b) 6 km
- (c) 5 km
- (d) 8 km

Q42. Why it is remarked that “the pocket of the Indian President is bigger than that of the American President” in reference to Pocket Veto Power of the President?

- (a) The power of the Indian President not to take any action (either positive or negative) on the bill for an indefinite period.
- (b) The President of USA has to return the bill for reconsideration within 10 days, as against 30 days for the Indian President.
- (c) The President of USA has to return the bill for reconsideration within 10 days, as against 20 days for the Indian President.
- (d) The President of USA can't return the bill for reconsideration, if he kept it for more than 10 days, while that is not the case with the Indian President.

Q43. A straight angle is equal to?

- (a) 90°
- (b) 180°
- (c) 270°
- (d) 360°

Q44. Pointing to the lady in the metro, Twinkle said, “She is the sister of the father of my mother’s son.” Who is the lady to Twinkle?

- (a) Mother
- (b) Sister
- (c) Aunt
- (d) Niece

Q45. Read the statements and select a conclusion from the given alternatives:

Statements: Some doors are shelves.

All the shelves are windows.

Conclusions: 1. Some doors are windows.

2. No shelf is door

- (a) Only (1) conclusion follows
- (b) Only (2) conclusion follows
- (c) Either (1) or (2) follows
- (d) Neither (1) nor (2) follows

Q46. If the average age of 40 students in Class I is 10 years and the average age of 30 students in Class II is 12 years, find the average age (in years) for all students.

- (a) 11
- (b) 10.54
- (c) 10.58
- (d) 10.85

Q47. Pointing to a person, Arnav said to Preeti, "His mother is the only daughter of your father". How was Preeti related to that person?

- (a) Aunt
- (b) Mother
- (c) Wife
- (d) Daughter

Q48. Fill in the blanks with suitable option:

A /An _____ turns blue litmus red and a/an _____ turns _____ litmus blue.

- (a) Base, acid, red
- (b) Acid, base, green
- (c) Base, acid, pink
- (d) Acid, base, red

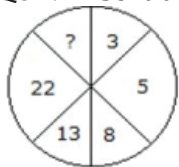
Q49. Which city hosted the first 'Indian International Science Festival, 2015'?

- (a) Kolkata
- (b) Bangalore
- (c) New Delhi
- (d) Chennai

Q50. In a fruit basket, the ratio of number of apples to bananas is A and the ratio of bananas to apples is B; then A+B is:

- (a) exactly 1
- (b) less than one
- (c) more than one
- (d) zero

Q51. Insert the missing character in?

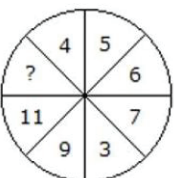


- (a) 45
- (b) 29
- (c) 39
- (d) 37

Q52. When was the GSLV used in India for the first time?

- (a) 1980
- (b) 1987
- (c) 1994
- (d) 2001

Q53. Insert the missing character in?



- (a) 13

- (b) 14
- (c) 12
- (d) 15

Q54. What fraction of 2 hours in 18 seconds?

- (a) $\frac{1}{200}$
- (b) $\frac{1}{300}$
- (c) $\frac{1}{400}$
- (d) $\frac{1}{600}$

Q55. Gitesh took a loan for 6 years at 5% Simple Interest. If the total interest paid was Rs. 615, calculate the principal.

- (a) Rs. 2000
- (b) Rs. 2050
- (c) Rs. 2100
- (d) Rs. 2150

Q56. Read the statements and select a conclusion from the given alternatives:

Statements: The national norm is 100 classrooms per thousand population, but in this state, 150 classrooms per thousand are available in the schools.

Conclusions: 1. Our national norm is appropriate.

2. This state's education system is taking adequate care in this regard.

Choose the right option.

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Either I or II follows
- (d) Neither I nor II follows

Q57. If $40x^2 = 734^2 - 234^2$, then find the value of x.

- (a) 110
- (b) 121
- (c) 11
- (d) 144

Q58. Which of the following may cause the breakdown of pyruvate into lactic acid in our muscles?

- (a) Lack of water
- (b) Lack of Oxygen
- (c) Lack of carbon dioxide
- (d) Lack of nitrogen

Q59. A blue, violet, or red flavonoid pigment found in plants is due to the presence of

- (a) Carotene
- (b) Anthocyanin
- (c) Xanthophylls
- (d) Chlorophyll

Q60. Which of the following chemical reactions is always endothermic in nature?

- (a) Combustion reaction
- (b) Decomposition reaction
- (c) Displacement reaction
- (d) Combination reaction

Q61. Who is the author of famous autobiography "Dreaming Big: My Journey to Connect India"?

- (a) Abdul Kalam
- (b) Sam Pitroda
- (c) Nandan Nilekani
- (d) Azim Premji

Q62. If $4\sin\theta - 3\cos\theta = 0$, then $\sec\theta \cdot \operatorname{cosec}\theta$ is:

- (a) $5/12$
- (b) $25/12$
- (c) $13/12$
- (d) $12/5$

Q63. If in a certain language, STAR is coded as TSRA, how is MOON coded in that code?

- (a) OMNO
- (b) OOMN
- (c) NMOO
- (d) OMON

Q64. "Yakshagana" folk dance is associated to which Indian state?

- (a) Kerala
- (b) Karnataka
- (c) Tamil Nadu
- (d) Andhra Pradesh

Q65. Invention/Discovery Inventor/Scientist

- P) Dynamite a. J.J. Thomson
 - Q) Dynamo b. Michael Faraday
 - R) Electron c. Alfred Nobel
 - S) Proton d. Rutherford
- (a) P-b, Q-c, R-a, S-d
 - (b) P-c, Q-b, R-d, S-a
 - (c) P-c, Q-b, R-a, S-d
 - (d) P-d, Q-c, R-b, S-a

Q66. Increase in carbon dioxide in atmosphere is caused by which of the following reasons?

- 1. Excessive use of fossil fuels
 - 2. Deforestation
 - 3. Increased number of vehicles
 - 4. Excessive use of solar heaters
- (a) 1 and 2
 - (b) 1, 2 and 4
 - (c) 1, 2 and 3
 - (d) 1, 2, 3 and 4

Q67. Calculate the amount if Rs. 400 is invested on compound interest at the rate of 5% per annum for 2 years.

- (a) 440
- (b) 441
- (c) 445
- (d) 480

Q68. Complete the Figure X from the 4 alternatives 1, 2, 3, 4



(X)



(1)



(2)



(3)



(4)

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

Q69. Which among the following network topologies has the highest transmission speed?

- (a) LAN
- (b) WAN
- (c) MAN
- (d) Both LAN and WAN have equal transmission speeds.

Q70. On dividing $15y^3 - 30y^2 + 12y - 12$ by $3y - 6$, the remainder is:

- (a) 6
- (b) 36
- (c) 30
- (d) 12

Q71. Read the statements and select a conclusion from the given alternatives:

Statements:

Some benches are autos.

All the boxes are autos.

All the pens are benches.

Conclusions:

(1) Some benches are boxes.

(2) No pen is auto.

(3) Some boxes are benches.

- (a) None of three
- (b) Only (1) and (2)
- (c) Only (1) and (3)
- (d) Only (2) and (3)

Q72. Indian has the largest area under _____ crop in the World.

- (a) Oil Seeds
- (b) Sugarcane
- (c) Wheat
- (d) Apple

Q73. The longest chord in a circle is:

- (a) Radius
- (b) Diameter
- (c) Segment
- (d) Sector

Q74. Read the statements and select a conclusion from the given alternatives:

Statement: Good health is a luxury in country 'X' where rate of mortality due to hunger, malnutrition and unhygienic conditions is very high as compared to other nations of that region.

Conclusions: I. People in country 'X' can't afford to have many luxuries life.

II. Good health is a gift of nature.

Choose the right option

- (a) only conclusion I follows.
- (b) only conclusion II follows.
- (c) either I or II follows.
- (d) neither I nor II follows.

Q75. Which mirror is preferred as a rear-view (wing) mirrors in vehicles because of its wider field of view?

- (a) Convex
- (b) Plane
- (c) Concave
- (d) Concavo convex

Q76. The main objectives of Indian space programme are:

1. Mass Communication and education via satellite.
2. Survey and management of natural resources through remote sensing technology, environmental monitoring and meteorological forecasting.
3. Development of indigenous satellites and satellite launch vehicles.

- (a) Only 1
- (b) Only 2
- (c) 1 & 3 both
- (d) 1, 2 and 3

Q77. Four pair of words are given below out of which three are alike in some manner and one pair is different. Which is different from the rest?

- (a) Hard : Soft
- (b) Long : High
- (c) Sweet : Sour
- (d) Pointed : Blunt

Q78. Read the statements and select a conclusion from the given alternatives:

Statements:

All the wires are books.

All the plates are books.

Some wallets are plates.

Conclusions:

- (1) Some wires are plates.
- (2) Some books are wires.
- (3) Some books are wallets.
- (a) Only (1)
- (b) Only (2) and (3)
- (c) Only (1) and (2)
- (d) Only (1) and (3)

Q79. Four pair of words are given below out of which three are alike in some manner and one pair is different. Which is different from the rest?

- (a) Student
- (b) Paddy
- (c) Soldier
- (d) Politician

Q80. If Selling Price is Rs. 84 & Gain Percentage = 20%, Calculate the Cost Price.

- (a) Rs. 70
- (b) Rs. 68
- (c) Rs. 71
- (d) Rs. 69

Direction (81 -83): Based on the table below answer the following questions:

The table given below shows the percentage distribution of the total expenditures of a company Zeta Interactive Services under various expense heads during 2003.

Infrastructure	20
Transport	12.5
Advertisement	15
Taxes	10
R&D	5
Salaries	20
Interest on Loans	17.5

Q81. If the interest on loans amounted to Rs. 2.45 crores, then the total amount of expenditure on advertisement, taxes and research and development of Zeta Interactive Services is

- (a) Rs. 7 crores
- (b) Rs. 5.4 crores
- (c) Rs. 4.2 crores
- (d) Rs. 3 crores

Q82. What is the ratio of the total expenditure on infrastructure and transport to the total expenditure on taxes and interest on loans of Zeta Interactive Services?

- (a) 5:4
- (b) 8:7
- (c) 9:7
- (d) 13:11

Q83. If the expenditure of Zeta Interactive Services on advertisement is 2.10 crores then the difference between the expenditure on transport and taxes is?

- (a) Rs. 1.25 crores
- (b) Rs. 95 lakhs
- (c) Rs. 65 lakhs
- (d) Rs. 35 lakhs

Q84. A shopkeeper purchased a stereo system of marked price Rs. 2000, at successive discounts of 10% & 15% respectively. He then spent Rs. 70 on packaging and sold it at Rs. 2000. Calculate his gain percentage.

- (a) No Gain
- (b) 25%
- (c) 30%
- (d) 35%

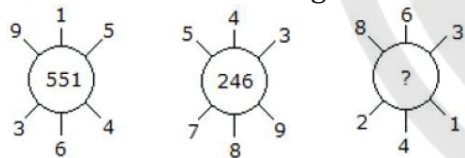
Q85. Who among the following is/was not associated with Cricket?

- (a) Farhaan Behardien
- (b) Aaron Phangiso
- (c) Vernon Philander
- (d) Stanislas Wawrinka

Q86. Which of the following is the outermost part of human skin?

- (a) Epidermis
- (b) Dermis
- (c) Hypodermis
- (d) Nerve Fiber

Q87. Insert the missing character in?



- (a) 262
- (b) 622
- (c) 631
- (d) 824

Q88. Indian National Army was formed by:

- (a) Mohan Singh
- (b) Subhas Chandra Bose
- (c) Chandrashekhar Azad
- (d) Bal Gangadhar Tilak

Q89. Factors of $x^2 - 6x + 8$ are:

- (a) $(x-4)(x-2)$
- (b) $(x+4)(x+2)$
- (c) $(x+8)(x-2)$
- (d) $(x-4)(x+2)$

Q90. Find the least number that must be subtracted from 87375, to get a number exactly divisible by 698.

- (a) 120
- (b) 125
- (c) 250
- (d) 375

Q91. Which company developed the Android OS, a mobile operating system Software in 2007?

- (a) Microsoft Corp.
- (b) Google Corp.
- (c) Intel
- (d) Apple Corp.

Q92. In a certain code language, if HISTORY is coded as 7326845 and CIVICS is coded as 135312, then VISITOR will be coded as?

- (a) 5323684
- (b) 6843532
- (c) 8463352
- (d) 5323648

Q93. A man buys 20 pencils for Rs. 6 and sells 16 pencils for Rs. 6. Calculate his gain or loss percentage.

- (a) 20
- (b) 25
- (c) 27
- (d) 30

Q94. Three clocks are designed to alarm once every hour, every two hours and every three hours respectively. If they all alarmed together now, after how many hours they will together alarm next?

- (a) 3 hours
- (b) 6 hours
- (c) 4 hours
- (d) 12 hours

Q95. If $a/b = 1/3$; $b/c = 1/2$ and $a = 2$ then the value of c is:

- (a) 8
- (b) 10
- (c) 12
- (d) 16

Q96. If in a certain language, SINK is coded as ISKN, how is MINT coded in that code?

- (a) TMNI
- (b) IMTN
- (c) INMT
- (d) TINM

Q97. To take the revenge for the Jallianwala Bagh Massacre, who killed General O'Dwyer in London?

- (a) Sadar Bhagat Singh
- (b) Sardar Udham Singh
- (c) Sardar Ajit Singh
- (d) Raj Guru

Q98. Read the statements and select a conclusion from the given alternatives:

Statements:

Our equity investments carry market risk. Consult your investment advisor or agent before investing.

Conclusions:

I. One should not invest in equity.

II. The investment advisor calculates the market risk with certainty.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Neither I nor II follows

Q99. In a right-angled triangle, the hypotenuse is 2cm longer than the perpendicular which is 2cm longer than the base. Calculate the length of the base.

(a) 6 cm

(b) 9 cm

(c) 10 cm

(d) 8 cm

Q100. Who among the following is famously known as "The Haryana Hurricane"?

(a) Mansoor Ali Khan Pataudi

(b) Kapil Dev

(c) Saina Nehwal

(d) Vijender Singh

