

RRB NTPC Previous Year Paper 13

1. Who founded Twitter?

- (a) Mark Zuckerberg
- (b) Time Cook
- (c) Noah Ark
- (d) Evan Williams

Q2. An Assertion (A) and a Reason (R) are given below.

Assertion (A): In India, females have higher life expectancy than the males.

Reason (R): Females receive a better diet.

Choose the correct option.

- (a) A is true but R is false.
- (b) A is false but R is true.
- (c) Both A and R are true
- (d) Both A and R are false.

Q3. Vikash purchased 5 bannas for Rs. 4 and sold 4 bannas for Rs. 5. Calculate his % profit?

- (a) 55.56%
- (b) 53.25%
- (c) 45.50%
- (d) 56.25%

Q4. Which State in India has the highest forest cover?

- (a) Kerala
- (b) Madhya Pradesh
- (c) Maharashtra
- (d) Bihar

Q5. Based on the analogy given, find the missing word from the given options.

Butter : Milk :: Book : -----

- (a) Author
- (b) paper
- (c) Chapter
- (d) Printing

Q6. ----- is a unit of length, roughly the distance from Earth to the Sun.

- (a) Light years
- (b) Astronomical unit
- (c) Kelvin
- (d) Joule



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Q7. What is the name of their process where gas is directly converted to solids called?

- (a) Sublimation
- (b) Deposition
- (c) Condensation
- (d) Evaporation

Q8. In which city is the newly proposed AIIMS to be setup in Maharashtra?

- (a) Nagpur
- (b) Mumbai
- (c) Aurangabad
- (d) Pune

Q9. Which vaccine is primarily used against tuberculosis?

- (a) BCG
- (b) DPT
- (c) HIV
- (d) Varicella

Q10. Based on the analogy given, find the missing pair from the given options.

5 : 35 :: ---- : ----

- (a) 11:55
- (b) 7:77
- (c) 3: 24
- (d) 9: 45

Q11. Consider the following statements and choose correct option:

1. from the given two points, at least 3 straight can be drawn.
2. if sides of a angle are parallel to the sides of another angle, then both the angles are neither equal nor complementary.

- (a) 1 and 2 both are not correct.
- (b) 1 and 2 both are correct.
- (c) 1 is not correct and 2 is correct.
- (d) 1 is correct and 2 is not correct.

Q12. An Assertion (A) and a Reason (R) are given below.

Assertion (A): Shimla is colder than Delhi.

Reason (R): Shimla is at a higher altitude as compared to Delhi.

Choose the correct option.

- (a) A is true but R is false.
- (b) A is false but R is true.
- (c) Both A and R are true and R is the correct explanation of A.
- (d) Both A and R are true.

Direction (13-15): Study the following information carefully and answer the questions given below it.

There are six persons in a family—three males and three females. Out of these, there are two married couples and two persons who are unmarried. Each one of them likes different colour, viz. Blue, Red, Pink, Green, Yellow and White.

Seema, who likes Red colour, is Anitha's mother-in-law and Anitha is Raja's wife. Dinesh is Rohan's father and he does not like the blue colour or White colour. Bavya likes the Yellow colour and is Rohan's sister, who likes Pink colour, Raja does not use White Colour.

Q13. Which of the following is one of the married couples?

- (a) Rohan–Bavya
- (b) Dinesh–Bavya
- (c) Dines–Seema
- (d) Rohan–Seema

Q14. Which of the following colours is liked by Anitha?

- (a) White
- (b) Yellow
- (c) Pink
- (d) Green

Q15. How is Rohan related to Seema?

- (a) Brother
- (b) Son
- (c) Father
- (d) None of these

Q16. If DRIVER is coded as 5 and BELIEVED is coded as 7, then what is the code for EXAMINATION?

- (a) 9
- (b) 10
- (c) 11
- (d) 8

Q17. Anil can do a piece of work in 14 days while Rohit can do it in 21 days. They worked together for few days after which Anil left. If Rohit worked alone for 3 days, find the total number of days it took to complete the whole work.

- (a) $31/5$
- (b) $51/5$
- (c) $21/5$
- (d) $13/5$

Q18. Rearrange the jumbled up letters to form a meaningful word and find the odd one out.

- (a) ESAEIDS
- (b) EAHLTH
- (c) Lisesnl
- (d) CKSESNSI

Q19. If $A:B=3:4$ and $B:C=6:5$ then $A:(A+C)$ is:

- (a) 9:11
- (b) 9:10
- (c) 9:19
- (d) 6:7

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Q20. If two complimentary angles are in the ratio of 11:7, find the smaller angle.

- (a) 35°
- (b) 55°
- (c) 45°
- (d) 25°

Q21. What does TCP stand for with respect to computer networks?

- (a) Transmission Control Protocol
- (b) Transfer Call Plan
- (c) Transfer Control Process
- (d) Transmission Call Protocol

Q22. 30 litres of salt solution contains 5% salt. How many litres of water must be added so as to get a resultant solution containing 3% salt?

- (a) 20 litres
- (b) 25 litres
- (c) 30 litres
- (d) 35 litres

Q23. If DIJOB means CHINA, then the last letter of the word got by decoding KBQBO is

- (a) I
- (b) A
- (c) M
- (d) N

Q24. Below are given statement followed by two conclusions I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts.

Statements:

All birds are tall. Some tall are peacocks.

Conclusions:

I. Some birds are peacocks.

II. Some peacocks are tall.

Decide which of the below options logically follows the given Statements.

- (a) Both conclusions I and II follows
- (b) Neither conclusion I nor II follows
- (c) Only conclusion I follows
- (d) Only conclusion II follows

Q25. If the length of the shadow of a vertical pole on the horizontal ground is $\sqrt{3}$ times its height, then the angle of elevation

- (a) 40°
- (b) 50°
- (c) 30°
- (d) 45°

Q26. On which river is the city Madurai situated?

- (a) Cooum
- (b) Kaveri
- (c) Vaigai
- (d) Pennar

Q27. Engineer is related to engineering in the same way as doctor is related to-

- (a) medicine
- (b) Hospital
- (c) Disease
- (d) Body

Q28. Which of the following Prime Ministers was awarded Bharat Ratna?

- (a) V.P. Singh
- (b) Morarji Desai
- (c) Charan Singh
- (d) Manmohan Singh

Q29. How much salt is present in our body?

- (a) 1%
- (b) 2%
- (c) 0.4%
- (d) 0.6%

Q30. What is the old name of Singapore?

- (a) Temasek
- (b) Myanmar
- (c) Ceylon
- (d) Bohemia

Q31. If the angles of a triangle are in the ratio of 2:5:8, then find the value of the largest angle.

- (a) 36°
- (b) 96°
- (c) 84°
- (d) 60°

Q32. What is the name of the moon of Pluto?

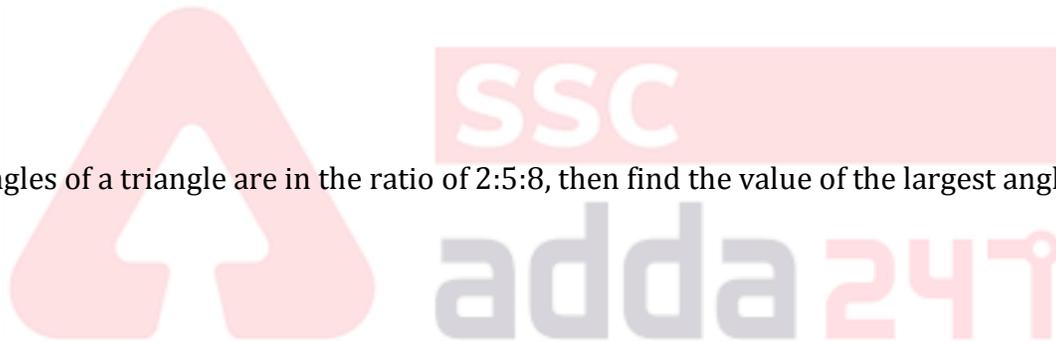
- (a) Charon
- (b) Ganymede
- (c) Luna
- (d) Triton

Q33. If GOAT can be written as KSEX, then WOLF can be written as --

- (a) APJS
- (b) AJSP
- (c) ASPJ
- (d) ASSJ

Q34. Find the unit digit in the given product $(4211)^{102} \times (361)^{52}$

- (a) 3
- (b) 1
- (c) 4
- (d) 7



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Q35. The traffic lights at four different road crossings change after every 15sec, 18sec, 27sec and 30 sec respectively. If they all change simultaneously at 6:10:00 hours, then at what time will they again change simultaneously?

- (a) 6:14:30 hours
- (b) 6:40:00 hours
- (c) 6:14:00 hours
- (d) 10:40:00 hours

Q36. The mean of a distribution is 21 and the standard deviation is 7. What is the value of the coefficient variation?

- (a) 16.66%
- (b) 66.66%
- (c) 33.33%
- (d) 100%

Q37. Michael Schumacher, a racing driver belongs to which country?

- (a) USA
- (b) Germany
- (c) Canada
- (d) Australia

Q38. Choose the one which is odd from the following options:

- (a) Rupee
- (b) Lira
- (c) Coin
- (d) Dinar

Q39. What was the element used in traditional thermometers which is highly toxic in nature?

- (a) Carbon
- (b) Mercury
- (c) Arsenic
- (d) Cadmium

Q40. Which of the following was built by the ancient Incas?

- (a) City of Petra
- (b) Hagia Sophia
- (c) Machu Picchu
- (d) Acropolis

Q41. In which year was the Aam Aadmi Party founded

- (a) 2010
- (b) 2011
- (c) 2012
- (d) 2013

Q42. A spoon which looks bent is an example of which of the following?

- (a) Reflection
- (b) Refraction
- (c) Retention
- (d) Focus

Q43. Who discovered radioactivity?

- (a) Max Planck
- (b) James Clerk Maxwell
- (c) Henri Becquerel
- (d) Heinrich Hertz

Q44. What is special about a sword-billed hummingbird?

- (a) It is the smallest bird in the world
- (b) Its bill is longer than rest of its body
- (c) It lives only in Antarctica
- (d) It cannot fly

Q45. A boy running at $\frac{10}{9}$ th of his actual speed covers 39 km in 2 hours 20 minutes and 24 seconds. Find the actual speed of the boy (approx).

- (a) 15 km/hr
- (b) 50 km/hr
- (c) 39 km/hr
- (d) 150 km/hr

Q46. Who devised the policy of Doctrine of Lapse?

- (a) Lord Curzon
- (b) Lord Mountbatten
- (c) Lord Dalhousie
- (d) Robert Clive

Q47. Sonam's age after eight years will be half of her father's age. Eight years ago the ratio of the ages was 1:3 Find the present age of Sonam's father.

- (a) 48
- (b) 56
- (c) 36
- (d) 65

Q48. Mohan earns a profit of 20% on selling a jean at 15% discount on printed price. The ratio of the cost price to printed price of the jean is

- (a) 17:24
- (b) 17:34
- (c) 16:13
- (d) 21:23

Q49. In accordance to the 18th Mercer Quality of Life study, which city in the World holds the first position as the best city to live in?

- (a) Zurich
- (b) Vienna
- (c) Sydney
- (d) Hyderabad

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Q50. When was the battle of Chillianwala fought?

- (a) 1865
- (b) 1892
- (c) 1849
- (d) 1856

Q51. If 'W' means 'x', 'X' means '-', 'Y' means '+' and 'z' means '÷', then

$28 Z 7 W 8 X 6 Y 4 = ?$

- (a) 30
- (b) $3/2$
- (c) 32
- (d) 34

Q52. If '<' stands for '-', '>' stands for '+', '=' stands for 'x' and '@' stands for '÷' then what will be the value of $27 > 81 @ 9 < 6$

- (a) 32
- (b) 33
- (c) 30
- (d) 35

Q53. If 'x' means '-', '-' means 'x', '+' means '÷' and '÷' means '+', then what will be the value for $15 - 2 \div 900 + 90 \times 100?$

- (a) 60
- (b) -60
- (c) 0
- (d) 1

Q54. A boy in a train notices that he can count 31 telephone posts in 60 seconds. The distance between two posts is 60 metres. Calculate the speed of the train?

- (a) 90 km/hr
- (b) 108 km/hr
- (c) 60 km/hr
- (d) 120 km/hr

Q55. Which of the following is a temple built out of marble by Vimal Shah?

- (a) The Dilwara temple
- (b) Brihadeeswarar temple
- (c) Omkareswar temple
- (d) Ranakpur Adinath temple

Q56. Who was the first Indian Badminton player to win the men's singles title at the All England Championship in 1980?

- (a) Prakash Padukone
- (b) Pullela Gopichand
- (c) Syed Modi
- (d) Chetan Anand

Q57. Who won the Academy award for documentary 'Amy' in 2016?

- (a) Duke Johnson
- (b) Asif Kapadia
- (c) Steven Spielberg
- (d) George Miller

Q58. What is income available with a person after deducting for taxes called?

- (a) Disposable Income
- (b) Cash Income
- (c) Salary
- (d) General Income

Q59. Which of the following was the first super computer developed in 1976?

- (a) Acorn Atom
- (b) Cray-1
- (c) PCW
- (d) PET

Q60. The average of five consecutive even numbers is 40. What is the value of smallest of these numbers?

- (a) 35
- (b) 36
- (c) 44
- (d) 48

Q61. Which series is India's First Supercomputer developed in Pune?

- (a) Vigyan
- (b) Param
- (c) Dhanush
- (d) Shakti

Q62. A sum of money (P) doubles in 10 years. How much would it be in 20 years at the same rate of simple interest?

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

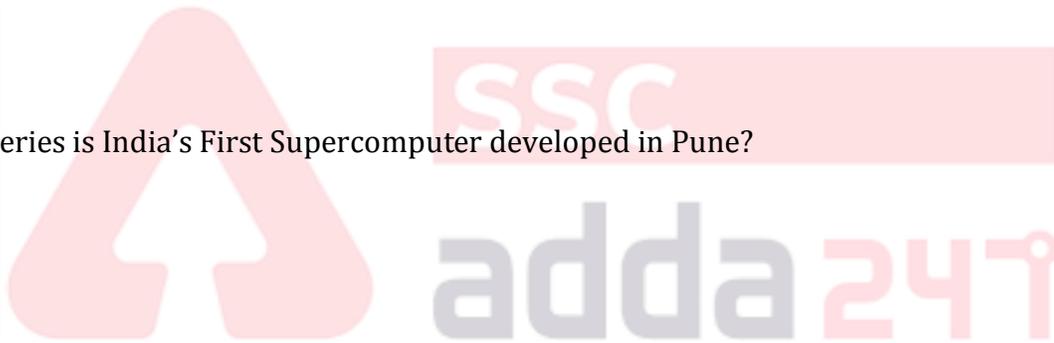
Q63. If $(a+c+1) = 0$, then find the value of $(a^3+c^3+1-3ac)$

- (a) -1
- (b) 1
- (c) 2
- (d) 0

Q64. Based on the analogy given, find the missing number from the given options.

49 : 81 :: 100 : -----

- (a) 144
- (b) 169
- (c) 225
- (d) 64



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Q65. If $(x+y)^2 - xy = 0$, then find the value of $(x^3 - y^3)/(x - y)$.

- (a) 2
- (b) 3
- (c) 0
- (d) 5

Q66. One of four words is a class of which the other three belong. Identify the class.

- (a) NOVELS
- (b) BOOKS
- (c) POEMS
- (d) SHORT STORIES

Q67. A ladder stands along with a wall. Top end of the ladder is at 9 m height from the floor. When bottom end of the ladder has been shifted away 3 m, then top end of the ladder becomes equal to lower end of the wall. What is the height of ladder?

- (a) 16 meter
- (b) 15 meter
- (c) 20 meter
- (d) 30 meter

Q68. Who propounded the homeopathic principle of 'like cures like'?

- (a) Hippocrates
- (b) Samuel Hahnemann
- (c) Samuel Cockburn
- (d) George Vithoulkas

Direction (69- 71): Study the following table carefully and answer the questions based on it. The following table shows the domestic sales of cars of five manufactures from 2005 to 2010. (All the figures are in thousands)

Manufacturer	2005	2006	2007	2008	2009	2010
L	440	480	470	500	520	510
M	400	410	415	415	420	430
N	380	390	390	400	420	495
O	360	380	400	415	440	500
P	480	440	440	420	425	435

Q69. During 2006, what is the approximate share domestic sales of cars of the manufacturer M?

- (a) 19.5%
- (b) 10.5%
- (c) 20.5%
- (d) 25.5%

Q70. During 2010, the sales of which manufacturer has shown the maximum percentage increase over the previous year?

- (a) L
- (b) M
- (c) N
- (d) P

Q71. With respect to which of the following combinations, is the sale of cars the highest over the given period?

- (a) L, 2009
- (b) L, 2010
- (c) L, 2008
- (d) O, 2008

Q72. Which one of the following interchanges in signs and numbers would make the given equation correct?

$$3+5-2=4$$

- (a) + and -, 2 and 5
- (b) + and -, 3 and 4
- (c) = and -, 2 and 4
- (d) + and -, 3 and 5

Q73. Which dynasty had its capital at Chittorgarh?

- (a) Chauhan
- (b) Sisodia
- (c) Hada
- (d) Rathor

Q74. With which sport is the term 'Freestyle' connected with?

- (a) Tennis
- (b) Kho Kho
- (c) Kabaddi
- (d) Swimming

Q75. Atul and Binay together complete a piece of work in 5 days. If Binay alone can complete the same work in 8 days, how many days can Atul take to complete the same work alone?

- (a) 40/3 days
- (b) 20/3 days
- (c) 9 days
- (d) 10 days

Q76. A assertion(A) and a reason(R) has been given:

Assertion (A): The number of smartphone users in India seems to be increasing rapidly.

Reason (R): The best 3G and 4G coverage is with the cheapest price.

choose the right option.

- (a) A is correct but R is wrong.
- (b) One is wrong but R is correct.
- (c) A and R are both correct and R, A has proper interpretation.
- (d) Both A and R are correct but R, A does not have proper interpretation.

Q77. Find the dividend if the divisor is $(x+2)$, quotient is $(4x-5)$ and the remainder is 12.

- (a) $4x^2+5x+2$
- (b) $4x^2+3x+2$
- (c) $4x^2-3x+2$
- (d) $4x^2+3x-2$

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Q78. Who is considered the greatest of the early Chola kings?

- (a) Pulakeshi II
- (b) Rajasimha
- (c) Karikala
- (d) Nandivarman

Q79. The mass per unit volume is called

- (a) Force
- (b) Work
- (c) Density
- (d) Pressure

Q80. The BRICS Development Bank is now called as

- (a) Asia Development Bank
- (b) World Bank
- (c) New Development Bank
- (d) New BRICS Bank

Q81. If MACHINE is coded as 19-7-9-14-15-20-11, how will you code DANGER?

- (a) 10-7-20-13-11-24
- (b) 13-7-20-11-10-25
- (c) 11-7-20-16-11-24
- (d) 13-7-20-9-11-25

Q82. What sum will produce the same interest in 9 years at the rate 8% simple interest at Rs. 800 produce in 3 years at $9\frac{1}{2}\%$ per annum?

- (a) Rs. 100
- (b) Rs. 125
- (c) Rs. 150
- (d) Rs. 110

Q83. Which among the following is not a qualification to become a Vice President of India?

- (a) Citizen of India
- (b) Above 35 years of age
- (c) Possess the Membership of Lok Sabha
- (d) Possess the Membership of Rajya Sabha

Direction (84-86); The following questions are based on the information given below:

Out of a group of 60 students, 25 play Cricket, 30 play Football, 24 play Volleyball, 10 play cricket and Football, 9 play Cricket and Volleyball, 12 play Volleyball and Football and 5 play all the three.

Q84. How many students play exactly two games?

- (a) 7
- (b) 13
- (c) 5
- (d) 16

Q85. How many students do not play any one of the games?

- (a) 5
- (b) 2
- (c) 7
- (d) 1

Q86. How many students play Cricket only?

- (a) 11
- (b) 13
- (c) 8
- (d) 5

Q87. Choose the pair which is related in the same way as the words in the first pair from the given choices

Moon : Satellite : : Earth : -----

- (a) Air
- (b) Planet
- (c) Sun
- (d) Sea

Q88. Naveen purchased a gas cylinder and a stove for Rs. 4500. He sold the gas cylinder at a gain of 25% and the stove at a loss of 20%, still gaining 4% on the whole. Find the cost of the gas cylinder.

- (a) Rs. 3600
- (b) Rs. 2400
- (c) Rs. 3000
- (d) Rs. 2600

Q89. The name of our planet Earth originates from which language?

- (a) Greek
- (b) Roman
- (c) English
- (d) Sanskrit

Q90. Which of the following is a good source of Vitamin A?

- (a) Cabbage
- (b) Carrot
- (c) Regular Potato
- (d) Strawberry

Q91. In new government policy, the price of onion is raised by 35%. By what % should a person reduce onion consumption so that the expenditure on it does not increase?

- (a) 25%
- (b) 29%
- (c) 26%
- (d) 33%

Q92. The mean of 10 observations is 13. Two more observations are included and the new mean becomes 14. The mean of two new observations is

- (a) 19
- (b) 18
- (c) 17
- (d) 16



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Q93. If the standard deviation of a population is 6.5, what would be the population variance?

- (a) 40.25
- (b) 42.25
- (c) 18.25
- (d) 13

Q94. Rearrange the jumbled up letters to form a meaningful word and find the odd one out.

- (a) ROUWBR
- (b) EDN
- (c) ORFO
- (d) ETNS

Q95. How many natural numbers between 15 and 85 are divisible by 7?

- (a) 9
- (b) 10
- (c) 8
- (d) 7

Q96. Who proposed the Scientific Management School of thought as supposed to the Administrative Management School of thought?

- (a) Henry Fayol
- (b) Frederick Taylor
- (c) Peter Drucker
- (d) Max Weber

Q97. Who discovered the ABO blood group system?

- (a) Karl Koller
- (b) Maurice Hilleman
- (c) Karl Landsteiner
- (d) Edward Jenner

Q98. Which value is closest to $[5.168 \times 4453 \times 3.194 / 67.999 \times 4224.017]$

- (a) 0.2
- (b) 0.002
- (c) 2
- (d) 0.02

Q99. HCF of two numbers is 19 and their LCM is 665. If one of the number is 95, find the other.

- (a) 19
- (b) 133
- (c) 190
- (d) 77

100. Which of the following states in India has the highest area under mangroves?

- (a) Gujarat
- (b) Andhra Pradesh
- (c) Maharashtra
- (d) West Bengal