

RRB NTPC Previous Year Paper 11_(Solutions)

1. Ans.(c):

Sol. Contemporary antonym is Historic Similarly Ancient antonym is Modern.

2. Ans.(a):

Sol. Project Loon is a pet project of search engine giant Google for providing Internet access to rural and remote areas using high-altitude helium-filled.

3. Ans.(b):

Sol. GSAT-15 is an Indian communication satellite similar to GSAT-10 to augment the capacity of transponders to provide more bandwidth for Direct-to-Home television and VSAT services. It was successfully launched on 10 November 2015. GSAT-6 Launch date 27 August 2015, GSAT-16 Launch date 7 December 2014, IRNSS-1E Launch date 20 January 2016.

4. Ans.(c):

Sol. HCF = 4

Two other factors of LCM are 5 and 7
Number = $4 \times 5 = 20$ and $4 \times 7 = 28$

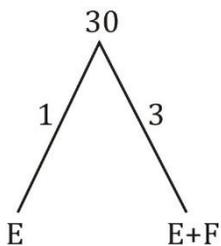
5. Ans.(b):

Sol. Kohima is the hilly capital of India's north eastern border state of Nagaland.

6. Ans.(a):

Sol. $E + F = 10$ days

$E = 30$



$F = 3 - 1 = 2$ efficiency F alone can do the work in $\frac{30}{2} = 15$ days

7. Ans.(b):

Sol. Swaraj Party, Indian political party established in late 1922–early 1923 by Motilal Nehru and Chitta Ranjan Das.

8. Ans.(a):

Sol. $2 \cos \left(\theta - \frac{\pi}{2} \right) + 3 \sin \left(\theta + \frac{\pi}{2} \right) - (3 \sin \theta + 2 \cos \theta)$
 $= 2 \sin \theta + 3 \cos \theta - 3 \sin \theta - 2 \cos \theta = \cos \theta - \sin \theta$



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9. Ans.(b):

Sol. Banaras Hindu University (BHU) founded by Freedom fighter Pt Madan Mohan Malviya has turned 100 years on 13th February 2016. BHU was founded as important seat of higher education in 1916.

10. Ans.(a):

Sol. Porcelain is a ceramic material made by heating materials, generally including kaolin, in a kiln to temperatures between 1,200 and 1,400 °C. Porcelain is bad conductor of electricity .

11. Ans.(c):

Sol. Both conclusion follow

12. Ans.(c):

Sol. S Completes all the work in 2 days T, completes all the work in 4 days Both of them can complete the work in $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$
 $= \frac{4}{3} \text{ days} = 1.33 \text{ days}$

13. Ans.(d):

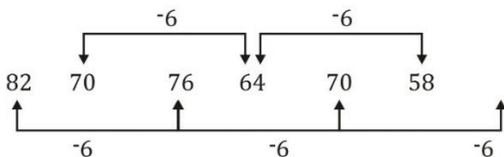
Sol. ICT Stands for "Information and Communication Technologies." ICT refers to technologies that provide access to information through telecommunications. It is similar to Information Technology (IT), but focuses primarily on communication technologies.

14. Ans.(d):

Sol. $\frac{3.6}{6.9} = \frac{11.4}{x}$
 $x = \frac{11.4 \times 6.9}{3.6} = 21.9 \text{ (approx.)}$

15. Ans.(c):

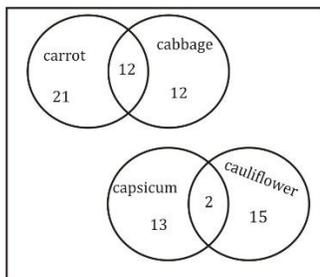
Sol.



$70 - 6 = 64$

16. Ans.(c):

- Sol.** Cabbage = 12
- Cauliflower = 15
- Carrot = 21
- Capsicum = 13
- Capsicum + Cauliflower = 2
- Carrot + cabbage = 12



Total students who likes Carrot = $21 + 12 = 33$

Total student who likes Cauliflower = $2 + 15 = 17$

Difference = $33 - 17 = 16$ Students

17. Ans.(d):

Sol. Students who like cabbage = 24 Student who don't like cabbage = $75 - 24 = 51$

$$= \frac{51}{75} \times 100 = 68\%$$

18. Ans.(b):

Sol. Only one vegetable = $21 + 12 + 13 + 15 = 61$

19. Ans.(a):

Sol. Sri Lanka's Kumar Sangakkara became the first player to score four successive centuries in World cup cricket.

20. Ans.(a):

Sol. Speed of car x = $12 \text{ km/h} = \frac{12 \times 5}{18} \text{ m/sec}$

Speed of car y = $16 \text{ km/hr} = \frac{16 \times 5}{18} \text{ m/sec}$

Difference after 3 minutes

$$= 180 \text{ sec} = \left(\frac{16 \times 5}{18} - \frac{12 \times 5}{18} \right) 180 \text{m} = 200 \text{m}$$

21. Ans.(c):

Sol. Consolation is related to grief similarly Sedative is related to Pain .

22. Ans.(c):

Sol. Length = L , New length = $\frac{5}{4} L$

Breadth = B , New Breadth = $\frac{5}{4} B$

New area = $\frac{5}{4} \times \frac{5}{4} L \times B = \frac{25}{16} LB$

Old area = LB

$$\text{Difference} = \frac{9}{16} LB$$

23. Ans.(b):

Sol. Sonar is a technique that uses sound propagation to navigate, communicate with or detect objects on or under the surface of the water, such as other vessels. Sonar is developed around World War II .

24. Ans.(c):

Sol. He had admitted to testing positive to dope test.

25. Ans.(d):

Sol. The digestive system starts with the mouth and includes the esophagus, stomach, small and large intestines, and anus. From beginning to end, the adult digestive system is about 30 feet, or 9 meters, long, according to the American Society of Gastrointestinal Endoscopy.



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26. Ans.(d):

Sol. sulphur is not alkaline.

27. Ans.(b):

Sol. Total age of parents = $30 \times 2 = 60$ years

Total age of two children = $8 \times 2 = 16$ years

Total age of the Family = 76 years

Average = $\frac{76}{4} = 19$ years

28. Ans.(b):

Sol. Only Conclusion II follow

29. Ans.(c):

Sol. $\frac{470}{600} \times 100 = 78.33\%$

30. Ans.(d):

Sol. Discount = $35\% = \frac{7}{20}$

SP = 13

MP = 20

13 → 26000 Rs

20 → 40,000 Rs

15% discount = $\frac{3}{20}$

SP → 17

MP → 20 → Rs 40,000

SP = Rs. 34,000

31. Ans.(d):

Sol. $25 - 18 \div 3 + 7 \times 3 = 40$

32. Ans.(c):

Sol. Speed = $\frac{\text{Distance}}{\text{time}} = \frac{1 \text{ km}}{10} \times 60 = 6 \text{ km/hr}$

33. Ans.(c):

34. Ans.(c):

Sol. $500 \left[1 + \frac{10}{100} \right]^2 + 500 \left(1 + \frac{10}{100} \right) = \text{Maturity at the end of the 2nd year}$
 $= \frac{500 \times 121}{100} + \frac{500 \times 11}{10} = 605 + 550 = 1155 \text{ Rs}$

35. Ans.(c):

Sol. Diphtheria causes a thick covering in the back of the throat. It can lead to difficulty breathing, heart failure, paralysis, and even death.

36. Ans.(d):

Sol. god is great = cp an bo ... (i)

Great help done = er cp fs ... (ii)

He is great = bo cp dq ... (iii)

From (i) and (ii) great = cp

From (i) and (3) is = bo
⇒ god = an and he = dq
He is god = an bo dq

37. Ans.(c):

Sol. The euro is the sole currency of 19 EU member states: Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Portugal, Slovakia, Slovenia, and Spain.

38. Ans.(d):

Sol. New mean = $35 + 2 = 37$

39. Ans.(b):

Sol. Gunpowder, also known as black powder to distinguish it from modern smokeless powder, is the earliest known chemical explosive. It consists of a mixture of sulfur (S), charcoal (C), and potassium nitrate (saltpeter, KNO_3).

40. Ans.(c):

Sol. $(27 + 15 - 2) \div 10 = 4$

41. Ans.(c):

Sol. The significant features of Indus Valley civilization are personal cleanliness, town planning, construction of burnt-brick houses, ceramics, casting, forging of metals, manufacturing of cotton and woolen textiles.

42. Ans.(c):

Sol. ARC = \$ @ *
HIT = # & %
CHAIR = *#\$ & @

43. Ans.(a):

Sol. health care is wealth = 1372 ... (i)
Health needs care = 417 ... (ii)
He needs wealth = 463 ... (iii)
He is wealth = ?
From (i) and (2)
Health/care = $1/7$
From (2) and (3) needs = 4
is/wealth = $3/2$
from (i) and (3)
wealth = 3
is = 2
he = 6
he is wealth = 326

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44. Ans.(b):

Sol. Atq,

$$l - b = 6m \quad \dots (i)$$

$$2(l + b) = 64 m \quad \dots (ii)$$

From (i) and (2)

$$l = 19, b_1 = 13$$

$$\text{area} = 19 \times 13 = 247 \text{ m}^2$$

45. Ans.(d):

Sol. S = Price/kg of Sugar , r = price /kg of rice 12 kg sugar = 6 kg rice

$$2 \text{ kg sugar} = 1 \text{ kg rice}$$

$$2S = r$$

$$10 \text{ kg Sugar} + 8 \text{ kg rice} = \text{Rs } 1040$$

$$10s + 8 \times 2s = 1040$$

$$26s = 1040$$

$$S = 40 \text{ Rs/kg}$$

46. Ans.(d):

Sol. +4, +4, +4, +4 series ONPM

47. Ans.(c):

Sol. Pointing to himself

Father

↓

Son [Having on sibling]



48. Ans.(b):

$$\text{Sol. } 6 \times 108 = 12 \times x$$

$$x = 54$$

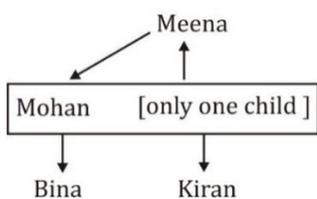
49. Ans.(a):

$$\text{Sol. } 9876 + 5431 - 5553 = x$$

$$x = 9754$$

50. Ans.(a):

Sol.



51. Ans.(d):

Sol. NGT- National Green Tribunal .

52. Ans.(d):

Sol. code = 6 2 41 ... (1)

Made = 5 3 4 6 ... (2)

Come = 3 1 2 4 ... (3)

to = 27 ... (4)

0 = 2

e = 4

c = 1

d = 6

m = 3

dome = 6/2/3/4

53. Ans.(c):

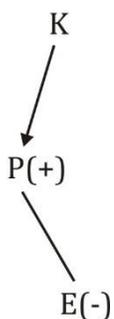
Sol. United States won the most gold medals.

54. Ans.(b):

Sol. In 1858, British Crown rule was established in India, ending a century of control by the East India Company.

55. Ans.(b):

Sol.



56. Ans.(c):

Sol. 40 kg of basmati rice at Rs 125 /kg

60 kg of rice at Rs 150 /kg

Tot al CP = $40 \times 125 + 60 \times 150 = [5000 + 9000]$ Rs = [14000] Rs

Per kg CP = $\frac{14000}{100} = 140$ Rs/kg

At 20% Profit = $\frac{1}{5}$

6 → SP

5 → CP

5 → 140

6 → $\left[\frac{140}{5} \times 6\right]$ Rs = 168 Rs

57. Ans.(b):

Sol. New Mean = $\frac{25 \times 40 - 25 + 50}{25} = 41$

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58. Ans.(c):

Sol.

$$\begin{array}{r} 29 \overline{)1265} \overline{43} \\ \underline{116} \\ 105 \\ \underline{87} \\ 18 \end{array}$$

59. Ans.(b):

Sol. The National Aeronautics and Space Administration is an independent agency of the USA. The agency's administration is located at NASA Headquarters in Washington, DC.

60. Ans.(c):

Sol. Arrow : Bow :: Bullet : Rifle

61. Ans.(c):

Sol. Knowledge and wisdom are complementary to each other

62. Ans.(b):

Sol. India accounts for 2.4 percent of the world surface area and sustains the needs of 17 percent of human and 18 percent livestock population."

63. Ans.(c):

Sol. $a + 2b = 55$... (1)

$a - 2b = -13$... (2)

adding both we get

$$2a = 42$$

$$a = 21$$

$$b = 17$$



64. Ans.(d):

Sol. Discount = 10% = $\left[\frac{10-1}{10} = \frac{SP}{MP} \right]$

$$SP \rightarrow 9 \rightarrow 3600$$

$$MP \rightarrow 10 \rightarrow 4000$$

$$\text{Discount } 15\% = \frac{3}{20} \Rightarrow \frac{SP}{MP} = \frac{17}{20}$$

$$MP \rightarrow 20 \rightarrow 4000$$

$$SP \rightarrow 17 \rightarrow 3400$$

65. Ans.(c):

Sol. Supercomputer PARAM 8000 (made by the Centre for Development of Advanced Computing (C-DAC)) was launched on July 1, 1991 is considered India's first supercomputer.

66. Ans.(b):

Sol. Bangladesh shares its border with India and Myanmar.

67. Ans.(b):

Sol. A → GOLD

B → STOVE

C → BRONZE

D → SILVER

68. Ans.(b):

Sol. Sum : Star is different than that of other

69. Ans.(b):

Sol. NSAT-3D is a meteorological, data relay and satellite aided search and rescue satellite developed by the Indian Space Research Organisation and was launched successfully on 26 July 2013 using an Ariane 5 ECA launch vehicle from French Guiana.

70. Ans.(a):

Sol. Authenticating the user is verification of log in name and password.

71. Ans.(d):

Sol. A, B, C are properties of a triangle D is a property of Right angled triangle

72. Ans.(b):

Sol. $99 \times 99 = (100 - 1)^2 = 10000 - 200 + 1 = 9801$

73. Ans.(d):

Sol. $\cot 52^\circ = b$

$\cot (90 - 38)^\circ = b$

$\tan 38 = b$

74. Ans.(d):

Sol. Electromagnetic radiation includes gamma-rays, X-rays, ultraviolet radiation, visible light, infrared radiation, microwaves and radio waves.

75. Ans.(b):

Sol. Only conclusion II follows become in statement 1 and 2 there is no mention of justice

76. Ans.(b):

Sol. A compiler is a special program that processes statements written in a particular programming language and turns them into machine language or "code" that a computer's processor uses. It is neither hardware nor software.

77. Ans.(b):

Sol. The Tashkent Declaration was a peace agreement between India and Pakistan signed on 10 January 1966 that resolved the Indo-Pakistani War of 1965.

78. Ans.(c):

Sol. Let the age of youngest be x

Atq,

$$x + x + 4 + x + 8 + x + 12 = 48$$

$$4x = 24$$

$$x = 6$$

79. Ans.(b):

$$\text{Sol. } x \times y = 24 ; 2xy = 48 \quad \dots (1)$$

$$x^2 \times y^2 = 52 \quad \dots (2)$$

adding (1) and (2) we get

$$52 + 48 = x^2 + y^2 + 2xy$$

$$(x + y)^2 = 100$$

$$x + y = 10$$

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80. Ans.(b):

Sol. Ratio of two numbers = 3 : 1

$$3x + 1x = 72$$

$$x = 18$$

$$\text{difference} = 2x = 2 \times 18 = 36$$

81. Ans.(a):

Sol.

	Teaching	Law	Banking	Cooking
Red	X	X	X	P
Blue	X	S	X	X
White	X	X	Q	X
Yellow	R	X	X	X

82. Ans.(b):

Sol. Q is a banker

83. Ans.(d):

Sol. Cannot be determined.

84. Ans.(d):

Sol. The Mahanadi River is a river of eastern India. The Mahanadi rises in the Satpura Range of central India, and flows east to the Bay of Bengal. The Mahanadi drains most of the state of Chhattisgarh and much of Orissa.

85. Ans.(a):

Sol. Chinese President Xi Jinping visited india in 2015.

86. Ans.(c):

Sol. Sunil – Jagdish

$$[60 + 55 + 60 + 59 + 61] - [35 + 41 + 39 + 30 + 45] = 25 + 14 + 21 + 29 + 16 = 105$$

87. Ans.(b):

Sol.

	History	Geography	Total
Shyam	51	65	116
Sunil	59	61	120
Jagdish	30	45	75
Rakesh	57	62	119

88. Ans.(b):

Sol.

	Total Marks	Average Marks
Shyam	260	52
Sunil	295	59
Jagdish	190	38
Rajesh	275	55
Average	$= \frac{\text{Total Marks}}{\text{Total no.of Subjects}}$	

Sunil has the highest

89. Ans.(c):

Sol. Khajuraho Group of Monuments found in Madhya Pradesh.

90. Ans.(d):

Sol. Stainless steel is an iron alloy with added elements such as chromium, nickel, silicon, manganese, nitrogen and carbon.

91. Ans.(d):

Sol. Human respiration releases Carbon dioxide

92. Ans.(d):

Sol. The Statue of Liberty is a colossal neoclassical sculpture on Liberty Island in New York Harbor in New York, in the United States.

93. Ans.(c):

Sol. The Paris Agreement came out of the COP21, the 21st Conference of Parties of the UNFCCC (United Nations Framework Convention on Climate Change), held in Paris from November 30th to December 12th, 2015. The agreement was adopted on December 12th, 2015.

94. Ans.(a):

Sol. Colour blindness is usually a genetic (hereditary) condition (you are born with it). Red/green and blue colour blindness is usually passed down from your parents. The gene which is responsible for the condition is carried on the X chromosome and this is the reason why many more men are affected than women.

95. Ans.(c):

Sol. The normal force is equal to your apparent weight. So, you actually feel a little heavier than usual when the elevator accelerates upward, and lighter than usual when the acceleration is down. But Person weight will not change.

96. Ans.(c):

Sol. An upper house is also known as Rajya Sabha.

97. Ans.(b):

Sol. Rabbit is not an antivirus software.

98. Ans.(c):

Sol. The West Indies has won the 2016 ICC Under-19 Cricket World Cup title by defeating three time champion India in Mirpur, Bangladesh.

99. Ans.(c):

Sol.
$$\frac{1+9+7+3+5+5+6+4+2+8}{10} = \frac{50}{10} = 5$$

100. Ans.(d):

Sol. let sum = x

$$x = \frac{x \times R \times 10}{100}$$

$$R = 10\%$$

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