

RRB NTPC Previous Year Paper 17_(Solutions)**S1. Ans.(a);****Sol.** Except "Ostrich" all other can fly.**S2. Ans.(a);**

Sol. $\sqrt{\frac{\cos^2\theta}{\sin^2\theta}} = \cot\theta$

S3. Ans.(c);

Sol. $7 \times 4 = 28$

$11 \times 4 = 44$

$17 \times 4 = 68$

$20 \times 4 = 80$ ----- 20 is not a prime number.

$23 \times 4 = 92$

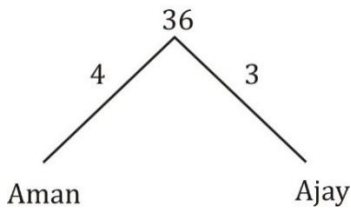
S4. Ans.(b);**Sol.** one decalitre = 10 litre**S5. Ans.(d);****Sol.** Damodar River was earlier known as the "River of Sorrows" because it used to flood many areas of Bardhaman, Hooghly, Howrah and Medinipur districts.**S6. Ans.(c);****Sol.** Teacher uses Books to teach and Doctor uses stethoscope for checkup.**S7. Ans.(c);****Sol.** BRICS is the acronym coined for an association of five major emerging national economies: Brazil, Russia, India, China and South Africa.**S8. Ans.(c);****Sol.** Mrinalini Vikram Sarabhai was an Indian classical dancer, choreographer and instructor.**S9. Ans.(c);****Sol.** Shankar > Farhan > Mohan > Kannan > Rohan**S10. Ans.(b);****Sol.** Second from last**S11. Ans.(b);****Sol.** Cetak is the name given in traditional literature to the horse ridden by Maharana Pratap at the Battle of Haldighati, fought on 21 June 1576 at Haldighati.

S12. Ans.(a);

Sol. Aman build wall in \rightarrow 9 days

Ajay build wall in \rightarrow 12 days

LCM = 36



IF they work together they will complete the wall in $\frac{36}{7} = 5\frac{1}{7}$ days

S13. Ans.(a);

Sol. It is thought, but not certain that Galileo Galilei discovered the specific principle on which the device is based and built the first thermoscope in 1593.

S14. Ans.(c);

Sol. Thursday to Sunday = $12 + 10 + 7 + 11 = 40$

S15. Ans.(b);

Sol. The term hacker may refer to anyone with technical skills, but it often refers to a person who uses his or her abilities to gain unauthorized access to systems or networks in order to commit crimes.

S16. Ans.(b);

Sol. Right isosceles triangle means one angle is of 90° and other two are same

$$\Rightarrow 90^\circ + x + x = 180^\circ$$

$$x = 45^\circ$$

S17. Ans.(a);

Sol. Arteries carry oxygenated blood (filled with oxygen) away from the heart to the tissues, except for pulmonary arteries, which carry blood to the lungs for oxygenation.

S18. Ans.(c);

Sol. Charminar was built to celebrate the end of plague epidemic in Hyderabad during the late 16th century.

S19. Ans.(c);

Sol. Two consecutive number be $x, x + 1$

$$\text{ATQ, } 3x - 2(x + 1) = 5$$

$$3x - 2x - 2 = 5$$

$$x = 7$$

$$x + 1 = 8$$

S20. Ans.(b);

Sol.

	Amar		Babu		Cera		Diya	
Q1	2	×	1	×	1	×	3	✓
Q2	4	×	3	×	2	✓	4	×
Q3	3	×	4	×	3	×	1	✓
Q4	3	✓	2	×	2	×	4	×

Cera's got Question 2 right

S21. Ans.(b);

Sol. Diya got question 1 and question 3 right

S22. Ans.(a);

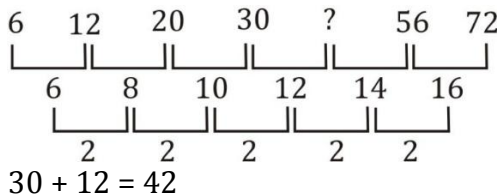
Sol. Amar got the Question 4 correctly

S23. Ans.(a);

Sol. The Karla Caves are a complex of ancient Buddhist Indian rock-cut caves at Karli near Lonavala, Maharashtra.

S24. Ans.(b);

Sol.



S25. Ans.(b);

Sol. The formal title of the first amendment is THE CONSTITUTION (FIRST AMENDMENT) ACT, 1951. It was moved by the then PRIME MINISTER OF INDIA, JAWAHARLAL NEHRU, on 10th May 1951 and enacted by PARLIAMENT on 18 June 1951

S26. Ans.(C);

Sol. Circle – Circumference

Square – Perimeter

Q27. Ans.(d);

Sol. Karnam Malleswari is a retired Indian weightlifter. She is the first Indian woman to win a medal at the Olympics. In 1995, she received the Rajiv Gandhi Khel Ratna, India's highest sporting honour, and in 1999, the civilian Padma Shri award.

S28. Ans.(b);

Sol. Luna 10 was a 1966 Soviet Luna program, robotic spacecraft mission, also called Lunik 10. It was the first artificial satellite of the Moon.

S29. Ans.(b);

Sol. $107.03 - x = 96.4$
 $= 10.63$

S30. Ans.(c);

Sol. $4665 > 4655 > 4565 > 4465 > 4456$
 4565 is in middle

S31. Ans.(b);

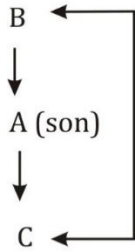
Sol. $\sqrt{16} \times 4^2 = 4 \times 16 = 64$

S32. Ans.(a);

Sol. There are 1024MB(megabyte) in one gigabyte.

S33. Ans.(c);

Sol.



B is grand parent of C

S34. Ans.(c);

Sol. XCVI = 96

S35. Ans.(b);

Sol. World Tuberculosis Day, observed on 24th March each year, is designed to build public awareness about the global epidemic of tuberculosis (TB).

S36. Ans.(b);

Sol. CCITRKE – CRICKET

K is the fifth letter

S37. Ans.(a);

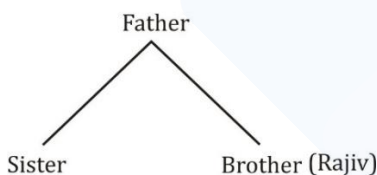
Sol. Totaling of Angles = 180°

S38. Ans.(c);

Sol. On the night of 8th August 1942 addressing the Congress delegates Mahatma Gandhi gave the the slogan "Do or Die". It means we shall either free India or die in the attempt.

S39. Ans.(c);

Sol.



S40. Ans.(c);

Sol. 144 oranges \rightarrow Rs 360

10% profit $\rightarrow \frac{1}{10}$

= Selling price = 11

Cost Price = 10

Selling price = $\frac{360 \times 11}{10}$

SP for 144 orange = Rs 396

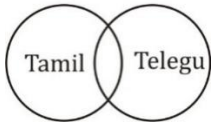
Per dozen = $\frac{396}{12}$ = Rs 33

S41. Ans.(a);

Sol. Simple, singer, Single, Sinister

S42. Ans.(c);

Sol.



$$\text{Tamil} \cup \text{Telugu} = \text{Tamil} + \text{Telugu} - \text{Tamil} \cap \text{Telugu}$$

$$40 = 28 + 30 - x \text{ [Tamil} \cap \text{Telugu]}$$

$$40 = 28 + 30 - x \text{ [Tamil} \cap \text{Telugu]}$$

$$x = 18$$

$$\text{Only Telugu} = 30 - 18 = 12$$

S43. Ans.(b);

Sol. Only Tamil = $28 - 18 = 10$

S44. Ans.(c);

Sol. Both Telugu and Tamil = 18

S45. Ans.(c);

Sol. The lens changes the focal distance of the eye. In other words, it focuses the light rays that pass through it (and onto the retina) in order to create clear images of objects that are positioned at various distances.

S46. Ans.(b);

Sol. Earth has only one satellite (aka. the Moon), Mars has two small moons.

S47. Ans.(a);

Sol. The elected prime minister acts as the head of the executive, and is responsible for running the union government.

S48. Ans.(c);

Sol. Product of number (a, b) = $\text{HCF} \times \text{LCM}$

$$35828 = 26 \times \text{LCM}$$

$$\text{LCM} = 1378$$

49. Ans.(a);

Sol. In 1960 Nicosia became the capital of the Republic of Cyprus, a state established by the Greek and Turkish Cypriots.

S50. Ans.(a);

Sol.

In Real	ATQ
Father	Mother
Mother	Brother
Brother	Sister
Sister	Father

My Sister = Father

S51. Ans.(d);**Sol.** Score = 67, 69, 78, 88

Average of 5 Subjects = 80

Total Score of 5 subjects = 80×5 Total score $\Rightarrow 5 \times 80 = 400$

Total Score of 4 subjects = 302

Score in 5th subject = $400 - 302 = 98$ **S52. Ans.(b);****Sol.** Penicillin was discovered in 1928 by Scottish scientist Alexander Fleming.**S53. Ans.(d);****Sol.** Aruna Asaf Ali was an Indian independence activist. She is widely remembered for hoisting the Indian National flag at the Gowalia Tank maidan in Bombay during the Quit India Movement, 1942.**S54. Ans.(a);****Sol.** The Indian general election, 2014 was held to constitute the 16th Lok Sabha, electing members of parliament for all 543 parliamentary constituencies.**S55. Ans.(c);****Sol.** Evander Holyfield aka "The Real Deal", boxer and former Undisputed World Champion in both the cruiserweight and heavyweight divisions.**S56. Ans.(b);****Sol.** 25th December 2011 = Sunday25th December 2012 = 366 days after $\frac{366}{7} = 52$ weeks + 2 days \Rightarrow 25th December 2012 = Tuesday**S57. Ans.(b);****Sol.** Tanya/Dhwani/Manali/Urja/Ruhi

2 girls are there between Dhwani and Ruhi

S58. Ans.(c);**Sol.** Manali is in middle**S59. Ans.(c);****Sol.** Dhwani is in Right of Tanya.**S60. Ans.(a);****Sol.** Rowlatt Act, 1919 was passed by the British Government to give themselves greater power over the people.**S61. Ans.(a);****Sol.** Opposite words

Blunt = Sharp

Sow = Reap

S62. Ans.(a);**Sol.** Undersea earthquake is an earthquake that occurs underwater at the bottom of a body of water, especially an ocean. They are the leading cause of tsunamis.

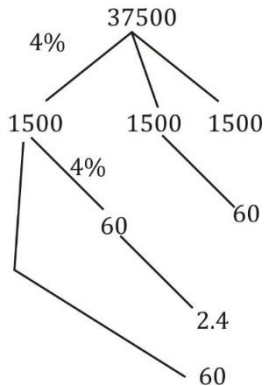
S63. Ans.(c);

Sol. 1, 8, 27, 36, 125, 216

$$1^2, 2^3, 3^3, 6^2, 5^3, 6^3$$

S64. Ans.(a);

Sol.



$$\text{Amount} = 37500 + 4500 + 180 + 2.4 = \text{Rs } 42182.4$$

S65. Ans.(b);

Sol. 50 to 100

Prime numbers are

53, 59, 61, 67, 71, 73, 79, 83, 89, 97 = 10 numbers

S66. Ans.(a);

Sol. 1 minutes and 12 Second = 72 seconds

1 hour = 60 × 60 Seconds

$$\text{Required \%} = \frac{72}{60 \times 60} \times 100 = 2\%$$

S67. Ans.(b);

Sol. Storage option is not present in keyboard.

S68. Ans.(b);

Sol. Bells rings [15, 20, 30] minutes

LCM of [15, 20, 30] = 60 minutes So after 11 am they will ring together at 12 noon.

S69. (b);

Sol. On May 20, 1498, sailing for the Portuguese crown, Vasco da Gama reached Calicut, India.

S70. Ans.(d);

Sol. Priyanka

Asha

Sunil

Ryan

Mary

S71. Ans.(a);

Sol. Protozoa are single-celled eukaryotes (organisms whose cells have nuclei) that commonly show characteristics usually associated with animals, most notably mobility and heterotrophy.

S72. Ans.(d);

$$\text{Sol. } A = \frac{5}{8} B \Rightarrow \frac{8}{5} = \frac{B}{A}$$

S73. Ans.(c);

Sol. Methane, is called marsh gas as it is a product of the anaerobic bacterial decomposition of vegetable matter under water.

S74. Ans.(b);

Sol. 35 electric poles in minutes

Distance between each poles = 50 m

Total distance = $50 \times 34 = 1700$ m

$$\text{Speed} = \frac{1700}{60} \text{ m/s}$$

$$= \frac{1700}{60} \times \frac{18}{5} = 102 \text{ km/h}$$

S75. Ans.(b);

Sol. A = 1

M = 7

E = 3

R = 4

I = 6

C = 5

A = 1

I = 6

N = 8

D = 9

I = 6

A = 1

C = 5

A = 1

N = 8

A = 1

D = 9

A = 1

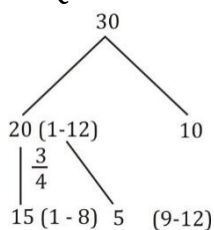
= 518191

S76. Ans.(c);

Sol. $\frac{2}{3}$ of children = 1 - 12 years

Let the total no of students = 30

ATQ



So $\frac{5}{30} = \frac{1}{6}$ th of the total

are in [9 - 12] age group

S77. Ans.(b);

Sol. Dambulla cave temple also known as the Golden Temple of Dambulla is a World Heritage Site (1991) in Sri Lanka, situated in the central part of the country.

S78. Ans.(d);

Sol. $C + O + W = 3 + 15 + 23 = 41$

$G + O + A + T = 7 + 15 + 1 + 20 = 43$

$D + O + G = 4 + 15 + 7 = 26$

S79. Ans.(b);

Sol. $\frac{10 \times 36200 + 15 \times 33,550}{25} = \text{Rs } 34,610$

S80. Ans.(b);

Sol. Son's age be = x

Ram = $4x$

$3(x + 5) = 4x + 5$

$3x + 15 = 4x + 5$

$10 = x$

S81. Ans.(b);

Sol. Car loan = Rs 275,000

Interest = 8% p.a

Settled account after 3 years

Gave = Rs 335,000 + Scooter

$275000 + \frac{275000 \times 8 \times 3}{100} = \text{Rs. } 341,000$

Scooter = $341,000 - 335000 = \text{Rs. } 6000$

S82. Ans.(a);

Sol.



In 2.5 hr distance travelled = $300 - 25 = 275$ km

Relative speed of A + B = $\frac{275}{2.5} = 110$ km/hr

Speed of A – Speed of B = 10

Speed of A = 60 km/hr

Speed of B = 50 km/hr

S83. Ans.(b);

Sol. Emperor Ashoka was the successor of Bindusara.

S84. Ans.(c);

Sol. Kuchipudi Dance Style originated in a village named Kuchipudi in the Indian state of Andhra Pradesh.

S85. Ans.(b);

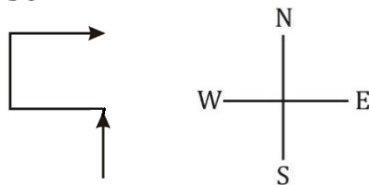
Sol. Konark Sun Temple is a 13th-century CE sun temple at Konark about 35 kilometres (22 mi) northeast from Puri on the coastline of Odisha, India. The temple is attributed to king Narasingha deva I of the Eastern Ganga Dynasty about 1250 CE.

S86. Ans.(c);

Sol. Seven sided polygon is heptagon

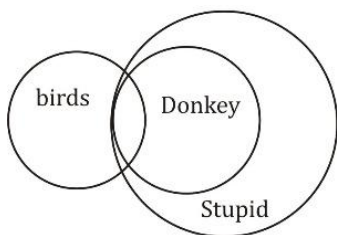
S87. Ans.(a);

Sol.



S88. Ans.(b);

Sol.



3 ----- ×

4 ----- ✓

S89. Ans.(b);

Sol. Cholistan Desert, locally known as "Rohi" covers the area of Bahawalpur, Punjab. It adjoins Thar Desert extending over to Sindh and into India.

S90. Ans.(b);

Sol. $\cot A = \frac{12}{5}$

$$\sin A = \frac{5}{13}$$

$$\cos A = \frac{12}{13}$$

$$\left(\frac{5}{13} + \frac{12}{13}\right) \times \frac{13}{5} = \frac{17}{5}$$

S91. Ans.(c);

Sol. Paleontology or palaeontology is the scientific study of life that existed prior to, and sometimes including, the start of the Holocene Epoch. It includes the study of fossils to determine organisms' evolution and interactions with each other and their environments.

S92. Ans.(c);

$$\text{Sol. } \frac{a^2 - b^2}{a + b} = 25 \Rightarrow \frac{(a+b)(a-b)}{a+b} = 25$$

$$a - b = 25$$

S93. Ans.(b);

Sol. The average weight of an atom of an element is based on 1/12 the weight of the carbon-12 atom (after 1961).

S94. Ans.(d);

Sol. Since the Earth is flattened at the poles and bulges at the Equator, geodesy represents the figure of the Earth as an oblate spheroid.

S95. Ans.(c);

Sol. The first ever international cricket game was between the USA and Canada in 1844. The match was played at the grounds of the St George's Cricket Club in New York.

S96. Ans.(a);

Sol. Ordered from largest in area to smallest, they are: Asia, Africa, North America, South America, Antarctica, Europe, and Australia. Thus Australia is the smallest continent.

S97. Ans.(c);

Sol. 25% loss = $\frac{1}{4}$

$$SP = 3$$

$$CP = 4$$

$$SP \rightarrow 3 \rightarrow 4200$$

$$CP \rightarrow 4 \rightarrow \frac{4200}{3} \times 4 = 5600$$

$$\text{Profit} \rightarrow 25\% \rightarrow \frac{1}{4}$$

$$SP \rightarrow 5$$

$$CP \rightarrow 4$$

$$CP \rightarrow 4 \rightarrow 5600$$

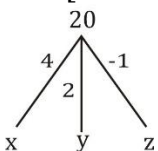
$$SP \rightarrow 5 \rightarrow \frac{5600}{4} \times 5 = 7000 \text{ Rs.}$$

S98. Ans.(c);

Sol. Frequency and wavelength have an inverse relationship. Thus increase in frequency decreases the wavelength.

S99. Ans.(b);

Sol. [LCM of 5,10,20]

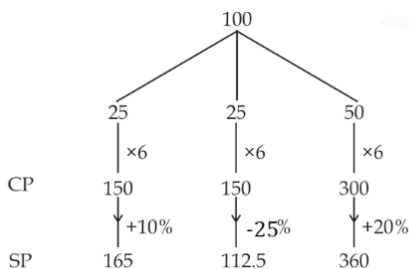


$$X + y + z = 4 + 2 - 1 = 5$$

$$\text{Time taken} = \frac{20}{5} = 4 \text{ hr}$$

S100. (b);

Sol.



$$\therefore \text{Total CP} = 600$$

$$\text{Total SP} = 637.5$$

$$\therefore \% \text{ profit} = \frac{37.5}{600} \times 100 = 6.25\%$$