

RRB NTPC Previous Year Question Paper Mock – (Solutions)

S1. Ans.(c)

Sol.

(+) (-) (-)
Gopal — Indu — Chanda
| (-)
Bommy

S2. Ans.(b)

Sol. +3, +3 Pattern series

S3. Ans.(a)

Sol. New Ratio

$$1 \times \frac{105}{100} : 2 \times \frac{110}{100} : 3 \times \frac{115}{100}$$

$$\Rightarrow 21 : 44 : 69$$

S4. Ans.(d)

Sol. Hindustan Socialist Republican Association was a revolutionary organisation, also known as the Hindustan Socialist Republican Army, established in 1928 at Feroz Shah Kotla in New Delhi by Chandrasekhar Azad, Bhagat Singh, Sukhdev Thapar and others.

S5. Ans.(b)

Sol. The three dynamic leaders of Lokmanya Tilak, Lala Lajpat Rai and Bipin Chandra Pal, who famously came together as the Lal-Bal-Pal trio.

S6. Ans.(c)

Sol. There are $2^{20}=1,048,576$ rows, and $2^{14}=16,384$ columns in an Excel worksheet, at least since Excel 2007

S7. Ans.(c)

Sol. $\pi r^2 = 616$

$$r = 14$$

$$d = 28m$$

S8. Ans.(c)

$$\text{Sol. Mean} = \frac{9+5+8+9+9+7+8+9+8}{9} = 8$$

Arranging in increasing order

5, 7, 8, 8, 8, 9, 9, 9, 9

Median = Middle term = 8

Mode = max occurrence = 9

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CBT - I

20 Full Length Mocks

S9. Ans.(a)

Sol. Among the following cities Guwahati is under the first list of 20 proposed smart cities under the 'Smart Cities Mission' released by the Union Government in January 2016.

S10. Ans.(c)

Sol. Gallon' is commonly used as a measure of volume.

S11. Ans.(c)

Sol. Pato is the Argentina's official national sport.

S12. Ans.(d)

Sol. Kurukshetra was located near Ambala city, the distance between Ambala City and Kurukshetra is around 51 km.

S13. Ans.(d)

Sol. There are 10^7 millimeters make ten kilometers.

S14. Ans.(b)

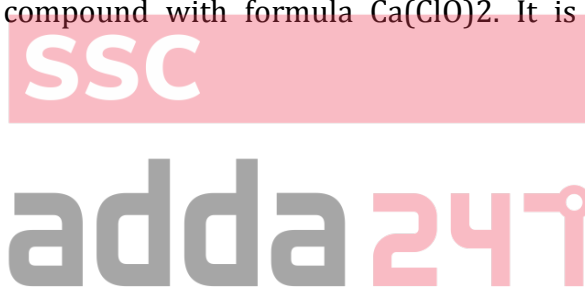
Sol. Calcium hypochlorite is an inorganic compound with formula $\text{Ca}(\text{ClO})_2$. It is the main active ingredient of bleaching powder.

S15. Ans.(c)

Sol. $A : B : C = 2 : 3 : 4$

2 units \rightarrow Rs 400 crore

3 units $\rightarrow \frac{3}{2} \times 400 = \text{Rs } 600$ crore,



S16. Ans.(c)

Sol. Cricketer Virat Kohli was honoured with Arjuna Award in 2013.

S17. Ans.(b)

Sol. A tachometer is an instrument measuring the rotation speed of a shaft or disk, as in a motor or other machine.

S18. Ans.(d)

Sol. $\text{HCF}(1.26, 1.98, 1.62) = 0.18\text{m} = 18 \text{ cm}$

S19. Ans.(a)

Sol. The Slave dynasty was founded by Quṭb al-Dīn Aibak, a favourite slave of the Muslim general and later sultan Muḥammad of Ghor.

S20. Ans.(a)

Sol. Exobiology is the branch of science that deals with the possibility and likely nature of life on other planets or in space.

S21. Ans.(c)

S22. Ans.(b)

$$\text{Sol. S.I.} = \frac{13500 \times 12.5 \times 2}{100}$$

$$\text{S.I.} = 3375$$

$$\text{Amount} = 13500 + 3375 = 16875$$

S23. Ans.(d)

Sol. Geology is an earth science concerned with the solid Earth, the rocks of which it is composed, and the processes by which they change over time.

S24. Ans.(c)

S25. Ans.(d)

$$\text{Sol. Mother} = 43, \text{ son} = 22$$

$$\text{Father} = 43 + 3 = 46$$

Difference will always remain same. i.e. $46 - 22 = 24$ years

S26. Ans.(b)

$$\text{Sol. CP of sugar} = 15 \times 50 = 750$$

$$\text{CP of Wheat} = 20 \times 75 = 1500$$

$$\text{S.P. of sugar} = 750 \times \frac{110}{100} = 825$$

$$\text{S.P. of Wheat} = 1500 \times \frac{120}{100} = 1800$$

$$\text{Total sale value} = 1800 + 825 = 2625$$

S27. Ans.(c)

Sol. They are not synonym.

S28. Ans.(a)

Sol. X do whole work in 4 days

Y do whole work in 8 days

$$\text{Together} = \frac{4 \times 8}{8+4} = \frac{8}{3} = 2.67 \text{ days}$$

S29. Ans.(c)

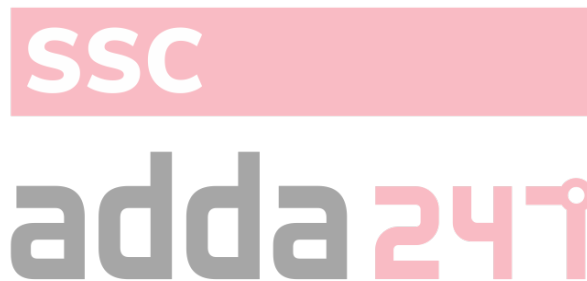
$$\text{Sol. } x + 2y = 27$$

$$x - 2y = -1$$

On adding

$$2x = 26$$

$$x = 13 \text{ and } y = 7$$



S30. Ans.(b)

Sol. The new country changed its name from East Pakistan to Bangladesh on 11 January 1972 and became a parliamentary democracy under a constitution.

S31. Ans.(d)

a → 0.008

b → 0.083

c → 0.005

d → 0.004

option (d) is smallest.

S32. Ans.(d)

Sol. Range = Largest value – Smallest value

Range = 7 – 1 = 6

S33. Ans.(c)

Sol. AB+ is the universal recipient blood type, meaning that patients with AB+ blood can receive blood from donors of any blood type if they require a transfusion.

S34. Ans.(a)

Sol. Total price = $1.2 \times 330 + 1.3 \times 270$
= $396 + 351 = 747$

Remain amount = $1000 - 747 = 253$

S35. Ans.(c)

Sol. MS-DOS is a non-graphical command line operating system derived from 86-DOS that was created for IBM compatible computers.

S36. Ans.(d)

Sol. Except EMI, all are methods of quick transfer of funds.

S37. Ans.(d)

Sol. difference = $\frac{ab}{100} \%$

= $\frac{20 \times 20}{100} \%$ = 4%

Required value = $12500 \times \frac{4}{100} = 500$

S38. Ans.(d)

Sol. Under the Constitution of India which came into force on the 26th January 1950 the legislative power is vested in Parliament.

S39. Ans.(c)

Sol. Nearsightedness (myopia) is a common vision condition in which you can see objects near to you clearly, but objects farther away are blurry.



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S40. Ans.(a)

Sol. Speed of car A = $\frac{120 \times 2}{3} = 80$ km/h.

Speed of car B = $\frac{80}{2} = 40$ km/h.

S41. Ans.(d)

Sol. +5, +4, +3, +2, +1 Pattern series.

S42. Ans.(b)

Sol. P – Electrician – Friday

Q – Plumber – Monday

R – Cook – Thursday

S – Doctor – Tuesday

T – Carpenter – Wednesday

S43. Ans.(d)

Sol. S – Doctor – Tuesday

S44. Ans.(a)

Sol. Q – Plumber – Monday

S45. Ans.(b)

S46. Ans.(d)

Sol. Sam – 10hr

Shyam – 8hr

Ram – 5hr

Neither I nor II follows

S47. Ans.(c)

Sol. $1184 - 8 = 1176$ which is divisible by 21

S48. Ans.(b)

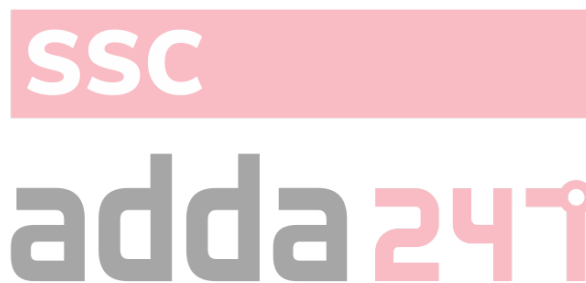
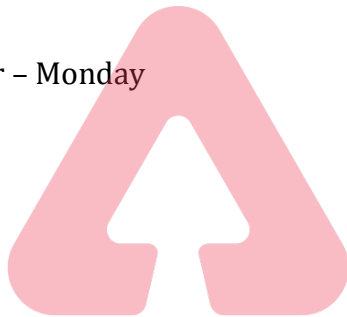
Sol. Required area = $125 \times 75 - 3 \times 125 = 9000$ sq.m

S49. Ans.(a)

Sol. Red soils are generally derived from crystalline rock. They are usually poor growing soils, low in nutrients and humus and difficult to cultivate because of its low water holding capacity.

S50. Ans.(a)

Sol. To accomplish the SDGs and encourage global development, UNDP focuses on poverty reduction, HIV/AIDS, democratic governance, energy and environment, social development, and crisis prevention and recovery.



S51. Ans.(d)

Sol. As sun is a star, similarly
Moon is a satellite.

S52. Ans.(d)

Sol. Alternate Series of Squares and cubes.

1, 4, 9, 16

1, 8, 27, 64

S53. Ans.(c)

Sol. HCF (48, 92, 140) = 4

S54. Ans.(b)

Sol. $15 \times 4 + 15 \div 11 \times 33 - 98 = 60 + 45 - 98 = 7$

S55. Ans.(b)

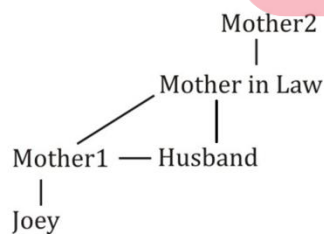
Sol. Mean = $\frac{10+11+12+9+8}{5} = 10$

$\sum(x - \bar{x})^2 = 0 + 1 + 4 + 1 + 4 = 10$

S.D. = $\sqrt{\frac{\sum(x - \bar{x})^2}{x}} = \sqrt{\frac{10}{5}} = \sqrt{2}$

S56. Ans.(d)

Sol.



Lady is grandmother of Joey's father.

S57. Ans.(c)

Sol. One gigabyte is equal to 1000^3 Bytes. There are 1,000 bytes in a kilobyte, 1,000 kilobytes in a megabyte, 1,000 megabytes in a gigabyte.

S58. Ans.(c)

Sol. "Gandhi Peace Prize" is an annual award given to individuals and institutions for their contributions towards social, economic and political transformation.

S59. Ans.(b)

Sol. Required angle = $\frac{15}{100} \times 360\% = 54^\circ$



S60. Ans.(c)

$$\text{Sol. } \frac{20 + 35}{10 + 20 + 15} = \frac{55}{45} = \frac{11}{9}$$

S61. Ans.(d)

$$\text{Sol. } \frac{35}{100} \times 960 = 336$$

S62. Ans.(c)

Sol. The Triratna is a Buddhist symbol, thought to visually represent the three Jewels of Buddhism (the Buddha, the Dharma, and the Sangha).

S63. Ans.(b)

Sol. Space tourism is the practice of travelling into space for recreational purposes.

S64. Ans.(b)

Sol. Among the following, India is the smallest in terms of area. India is at 7th largest country in terms of area.

S65. Ans.(a)

Sol. A piece of cloth appears black when it is viewed under red light because it completely absorbs red colour wavelength.

S66. Ans.(a)

Sol.
B⁺
|
C⁻
|
D⁺ - A⁺



S67. Ans.(c)

$$\begin{aligned} \text{Sol. } & 21 + 1 \div 7 \times 15 \div 6 \times 14 - 55 \\ \Rightarrow & 21 + \frac{1}{7} \times \frac{15}{6} \times 14 - 55 \\ = & 26 - 55 = -29 \end{aligned}$$

S68. Ans.(a)

Sol. root $\rightarrow 4$

S69. Ans.(c)

Sol. Hirakud Dam is built across the Mahanadi River, about 15 kilometres (9.3 mi) from Sambalpur in the state of Odisha in India.

A red rectangular advertisement for a test series. At the top, it says 'TEST SERIES Bilingual' in white. To the right is a circular logo with a gear and a book. Below this, 'RRB NTPC 2019 PREMIUM' is written in large white letters. Underneath, two bullet points in yellow text list 'CBT-I and CBT-II' and '30 Previous Year Papers'. At the bottom, '120 TOTAL TESTS' is written in white.

S70. Ans.(b)

Sol. The election of the President shall be held in accordance with the system of proportional representation by means of the single transferable vote and the voting at such election shall be by secret ballot.

S71. Ans.(a)

Sol. Volleyball is a popular team sport in which two teams of six players are separated by a net.

S72. Ans.(b)

Sol. $40 \times t = d$

Also, $56 \times t = d + 80$

$$\Rightarrow 56 \times \frac{d}{40} = d + 80$$

$$1.4d = d + 80$$

$$0.4d = 80$$

$$d = 200 \text{ km}$$

S73. Ans.(b)

Sol. A rectifier is an electrical device that converts alternating current (AC), which periodically reverses direction, to direct current (DC), which flows in only one direction

S74. Ans.(d)

Sol. Except credit card, all are its types.

S75. Ans.(a)

Sol. Only I follows

S76. Ans.(d)

Sol. Quadrant IV.

S77. Ans.(a)

Sol. -7 Pattern

S78. Ans.(a)

Sol. Young horse is called colt

S79. Ans.(b)

Sol.

a → NOSE

b → WALK

c → NAIL

d → HEAD

Except (b) all other are parts of body.

S80. Ans.(d)

Sol. None

S81. Ans.(d)

Sol. Brown = $20 + 50 + 30 = 100$

Black = $5 + 10 + 20 + 50 + 30 + 5 = 120$

Required ratio = $\frac{100}{120} = \frac{5}{6}$

S82. Ans.(a)

Sol. Do not like black = $20 + 100 + 30 = 150$

Only back and white = $20 + 30 = 50$

Required ratio = $\frac{150}{50} = \frac{3}{1}$

S83. Ans.(b)

Sol. The Grand Slam consists of the Australian Open in mid-January, the French Open in May and June, Wimbledon in June and July, and the US Open in August and September.

S84. Ans.(a)

Sol. Putting $x = 4$

= $64 (64 - 16 - 4) = 2816$

S85. Ans.(d)

Sol. From April 1, 2010, as per the RBI circular on new guidelines on savings accounts. "The interest has to be calculated on daily basis for the closing day".

S86. Ans.(b)

Sol. $97 \times 97 = 9409$

S87. Ans.(b)

Sol. Some of the sea level rise is due to melting glaciers and ice sheets which add water to the oceans that was once trapped on land. Certain glaciers and ice sheets are particularly vulnerable. Global warming has caused them to be less stable, to move faster towards the ocean, and add more ice into the water.

S88. Ans.(c)

Sol. "My Country, My Life" book is authored by Lal Krishna Advani.

S89. Ans.(a)

Sol. $\cos (1110^\circ)$

$\cos (3 \times 360 + 30^\circ)$

= $\cos (30^\circ) = \frac{\sqrt{3}}{2}$

S90. Ans.(c)

Sol. $\sin \theta = \frac{P}{H} = \frac{2}{3}$

Here $B = \sqrt{5}$

$\sec \theta = \frac{H}{B} = \frac{3}{\sqrt{5}} = \frac{3\sqrt{5}}{5}$

$\cot \theta = \frac{B}{P} = \frac{\sqrt{5}}{2}$

S91. Ans.(a)

Sol. ZIKA virus which damages the brain of the fetus is a mosquito borne disease.

S92. Ans.(b)

Sol. $(x^5 \div x^4)^3 \div x$
 $= x^3 \div x = x^2$

S93. Ans.(a)

Sol. $80\% \rightarrow 2400$

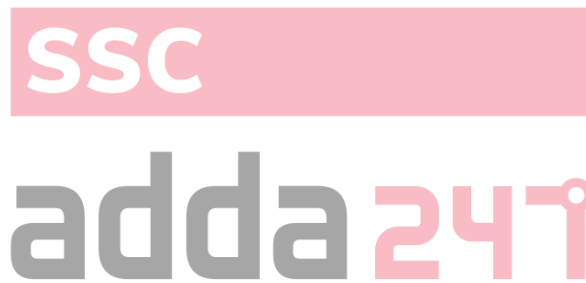
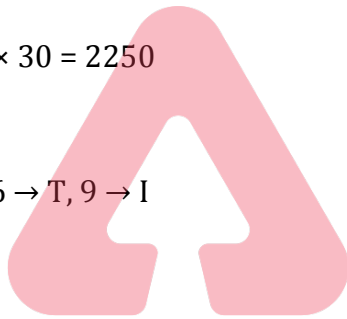
$1\% \rightarrow 30$

Now, $75\% = 75 \times 30 = 2250$

S94. Ans.(c)

Sol. $0 \rightarrow R, 1 \rightarrow A, 6 \rightarrow T, 9 \rightarrow I$

$2 \rightarrow N, 3 \rightarrow G$



S95. Ans.(a)

Sol. The tragic loss of the space shuttle Columbia killed seven astronauts. One of those, Kalpana Chawla, was the first Indian-born woman in space. Born in Karnal, India, on July 1, 1961, Chawla was the youngest of four children.

S96. Ans.(b)

Sol. All of them are non-metals.

S97. Ans.(b)

Sol.

$$\begin{array}{ccc} A(30) & > & 90 < & 3 \\ & & & & 1 \\ \bar{B}(90) & < & & & \end{array}$$

Time to fill tank = $\frac{90}{3-1} = 45$

S98. Ans.(b)

Sol. The prostate is a walnut-sized gland located between the bladder and the penis. The prostate is just in front of the rectum.

S99. Ans.(c)

Sol. $12.5\% = \frac{1}{8}$

ATQ, 9 units → Rs. 4500

1units → Rs. 500

So, Profit = Rs. 500

S100. Ans.(d)

Sol. He is a element and rest are compounds.

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