

RRB NTPC Previous Year Question Paper Mock – (Solutions)

S1. Ans.(d)

Sol. $= x^2 - x - 132$
 $= x^2 + 11x - 12x - 132$
 $= x(x + 11) - 12(x + 11)$
 $= (x + 11)(x - 12)$

S2. Ans.(b)

Sol. Option (b) matches with all given criteria.

S3. Ans.(a)

Sol. SCARE = !&%\$#

S4. Ans.(b)

Sol. Rosy → Yellow – Student
 Daisy → Green – Librarian
 Mary → Purple – Principal
 Andy → Blue – inspector
 Lily → Brown – teacher



S5. Ans.(c)

S6. Ans.(d)

Sol. Lily is a teacher.

S7. Ans.(c)

Sol. $1.123 + 11.23 + 112.3 = 124.653$

S8. Ans.(a)

Sol. Standard deviation = $\sqrt{\frac{\sum(x_i - \bar{x})^2}{n}}$

$\bar{x} = 10$

Standard deviation = 0

S9. Ans.(a)

Sol. CP of 12 pen = 120 Rs.

SP of 12 pen = $35 \times 4 = 140$ Rs.

Gain% = $\frac{20}{120} \times 100 = 16.67\%$

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S10. Ans.(d)

Sol. Synonym of Replenish is Restore

S11. Ans.(a)

Sol. A sound's loudness is measured in decibels (dB). Normal conversation is about 60 dB.

S12. Ans.(d)

Sol. A & B > P > Z > X > Y

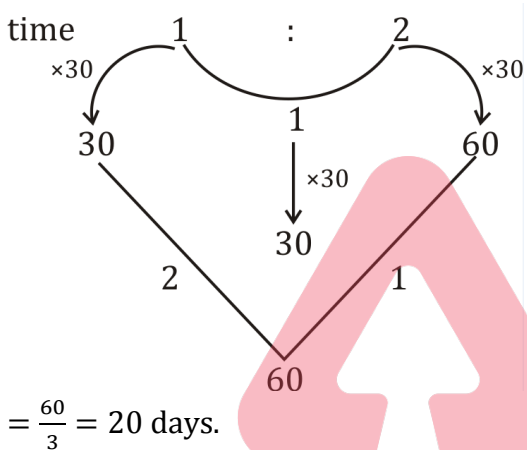
$$\frac{X+Y+Z}{3} = \frac{7+3.5+21}{3} = 10.5$$

So, both conclusions are incorrect.

S13. Ans.(b)

Sol. G : S

Efficiency 2 : 1



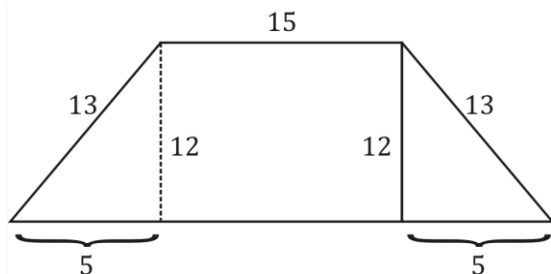
S14. Ans.(c)

Sol. $\times \frac{12}{100} \times 9 : P \times \frac{12}{100} \times 12$

3 : 4

S15. Ans.(d)

Sol.



$$= \frac{1}{2} \times (15 + 15 + 10) \times 12$$
$$= 240 \text{ sq.cm}$$

S16. Ans.(b)

Sol. Synonym of thesis is theory.

S17. Ans.(c)

Sol. As per RBI guidelines, with effect from April 1, 2012, the validity period of Cheques, Demand Drafts, Pay Orders and Banker's Cheques will be reduced from 6 months to 3 months, from the date of issue of the instrument.

S18. Ans.(b)

Sol. The Ganga action plan was, launched by Shri Rajeev Gandhi, the then Prime Minister of India on 14 Jan. 1986 with the main objective of pollution abatement, to improve the water quality by Interception, Diversion and treatment of domestic sewage.

S19. Ans.(b)

Sol. Range = 29 - 16 = 13

Mode = 18

S20. Ans.(c)

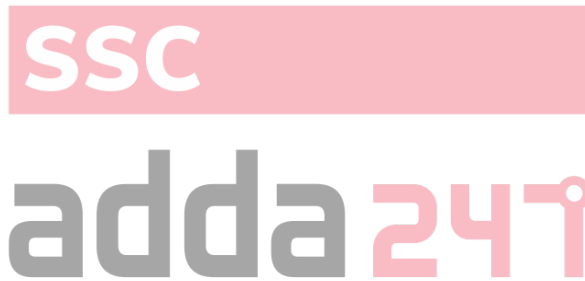
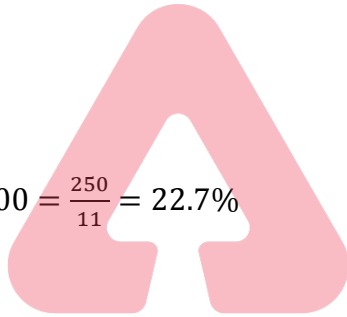
Sol. By volume, dry air contains 78.09% nitrogen, 20.95% oxygen, 0.93% argon, 0.04% carbon dioxide, and small amounts of other gases.

S21. Ans.(c)

Sol. CP = 11

SP = 13.5

$$\text{Gain\%} = \frac{2.5}{11} \times 100 = \frac{250}{11} = 22.7\%$$



S22. Ans.(a)

Sol. Shimla Agreement 1972 between India & Pakistan was signed in Barn's Court.

S23. Ans.(c)

$$\begin{aligned} \text{Sol. } (\sin\theta + \cos\theta)^2 &= \sin^2\theta + \cos^2\theta + 2\sin\theta \cos\theta \\ &= 1 + 2\sin\theta \cos\theta \end{aligned}$$

S24. Ans.(a)

Sol. Thermostats use different types of sensors to measure the temperature.

S25. Ans.(c)

Sol. Pressure is measured in terms of Force and Area.

S26. Ans.(c)

Sol. 10 times 3 occur in unit's place for number ranging from 1 to 100
(3, 13, 23, 33, 43, 53, 63, 73, 83, 93)

S27. Ans.(a)

Sol. Small intestine is longer than large intestine.

S28. Ans.(b)

Sol. To conduct detailed study into disease causing organism in livestock, Biosafety Laboratory has been setup in India at Bengaluru.

S29. Ans.(c)

Sol. Pole > Giraffe > tree

Pole > Signal > building > Giraffe

from above two analysis, tree is shortest.

S30. Ans.(b)

Sol. NA, PC, RE, TG, VI, XK, ZM

+2 series

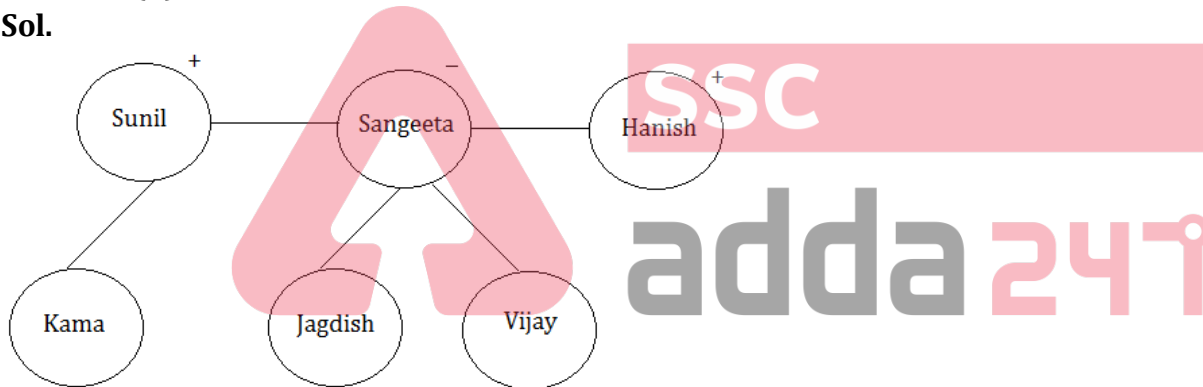
S31. Ans.(c)

Sol. HAND, HEAD, HEAT, HAIR

HEAT is different from all other.

S32. Ans.(d)

Sol.



Paternal uncle

S33. Ans.(b)

Sol. The International Maritime Organization (IMO) is a specialized agency of the United Nations that is responsible for measures to improve the safety and security of international shipping and to prevent marine pollution from ships.

S34. Ans.(d)

Sol. $20 = 2^2 \times 5$

$28 = 2^2 \times 7$

$GCF = 2^2 = 4$

$LCM = 35 \times 4 = 140$

S35. Ans.(c)

Sol. Astrosat is India's first dedicated multi-wavelength space telescope. It was launched on a PSLV-XL on 28 September 2015. It is first Space observatory.

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S36. Ans.(c)

Sol. Speed = $\frac{300}{150} m/sec$
 $= 2 \times \frac{18}{5} = \frac{36}{5} = 7.2 kmph$

S37. Ans.(c)

Sol. Option (c) is different from all other.

S38. Ans.(b)

Sol. The 'Gandhi-Irwin Pact' was a political agreement signed by Mahatma Gandhi and Lord Irwin, the then Viceroy of India, on 5 March 1931.

S39. Ans.(c)

Sol. let two numbers are x and y

$$2(x - y) = x + y$$

$$x = 3y$$

$$\frac{x}{y} = \frac{3}{1} \xrightarrow{\times 5} \frac{15}{5}$$

S40. Ans.(c)

Sol. $x + x + 1 + x + 2 = 126$

$$x = 41$$

$$x + 2 = 43$$

S41. Ans.(d)

Sol. Surya : Surya's son

$$2 : 1$$

$$(2x - 5) - (x - 5) = 25$$

$$x = 25$$

$$= (2x - 5) + 3$$

$$= 45 + 3 = 48 \text{ year}$$

S42. Ans.(a)

Sol. The first bank established in India was Bank of Hindustan, which was started in 1770.

S43. Ans.(c)

Sol. STARDOM = $19 + 20 + 1 + 18 + 4 + 15 + 13 = 90$

S44. Ans.(c)

Sol. $x = \frac{12 \times 8}{3} = 32$

S45. Ans.(b)

Sol. The GPS-aided GEO augmented navigation (GAGAN) is an implementation of a regional satellite-based augmentation system by the Indian government. It is a system to improve the accuracy of a GNSS receiver by providing reference signals.

S46. Ans.(a)

Sol. Reason is correct explanation of Assertion.

S47. Ans.(c)

Sol. Exterior angle = $180^\circ - \text{interior angle}$

$$= 180^\circ - 108^\circ$$

$$= 72^\circ$$

$$\text{no. of sides} = \frac{360}{72} = 5$$

S48. Ans.(d)

Sol. Rupee sign ₹ is a combination of Roman & Devanagari letters.

S49. Ans.(b)

Sol. All other are islands

S50. Ans.(a)

Sol. The headquarters of ISRO is located at Bengaluru.

S51. Ans.(b)

Sol. Austere comes on third position, among given words.

S52. Ans.(d)

$$\text{Sol. } \sin\theta = \frac{1}{\sqrt{2}}$$

$$\theta = 45^\circ$$

$$\tan\theta + \cos\theta = 1 + \frac{1}{\sqrt{2}} = \frac{\sqrt{2}+1}{\sqrt{2}}$$

S53. Ans.(d)

Sol. arrange in ascending order

2, 3, 5, 5, 5, 6, 6, 7, 7, 7

$$\text{mean} = \frac{2+3+5+5+5+6+6+7+7+7}{10} = 5.3$$

$$\text{median} = \frac{5+6}{2} = 5.5$$

S54. Ans.(d)

Sol. All of them are oils.

S55. Ans.(d)

Sol. A nail is a horn-like keratinous envelope covering the tips of the fingers and toes in most primates.

S56. Ans.(d)

Sol. Eastern boundary of Kashmir is Ladakh region.

S57. Ans.(c)

Sol. Paracetamol, also known as acetaminophen and APAP, is a medication used to treat pain and fever. It is an analgesic and antipyretic .

S58. Ans.(a)

Sol. Tendulkar made his Test debut against Pakistan in Karachi in November 1989

S59. Ans.(c)

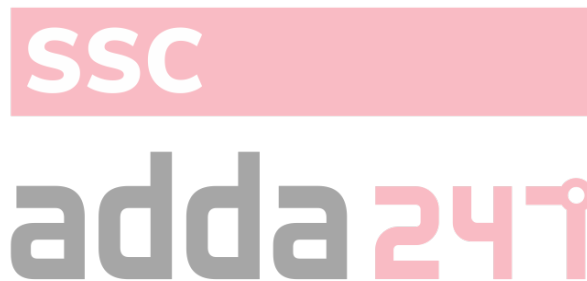
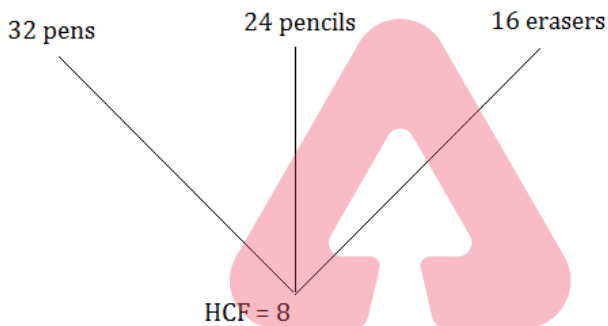
Sol. F11 key on a windows keyboard sets to full screen mode inmost browsers.

S60. Ans.(b)

Sol. ELISA (enzyme-linked immunosorbent assay) is a plate-based assay technique designed for detecting and quantifying substances such as peptides, proteins, antibodies and hormones.It is test for diagnosing of HIV.

S61. Ans.(c)

Sol.



S62. Ans.(b)

Sol. AQI is a way of showing changes in the amount of pollution in the air. Air quality is a measure of how clean or polluted the air is indicate as number.

S63. Ans.(c)

Sol. The first Deputy Prime Minister of India was Vallabhbhai Patel, who was also home minister in Jawaharlal Nehru's cabinet. The office has since been only intermittently occupied.

S64. Ans.(c)

Sol. Average speed = $\frac{100}{\frac{40}{60} + \frac{60}{40}} = 46.15$

S65. Ans.(d)

Sol. Secularism, also called Secularity, is the idea of something being not religious or not connected to a church. An example of this is the government, which is independent of any religion in many states.

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S66. Ans.(d)

Sol. Total CP = 18 + 3 = 21 lakh

SP = 24.57 lakh

$$\text{profit}\% = \frac{24.57-21}{21} \times 100$$
$$= \frac{357}{21} = 17\%$$

S67. Ans.(c)

Sol. National Science Day is celebrated in India on 28 February each year to mark the discovery of the Raman effect by Indian physicist Sir C. V. Raman.

S68. Ans.(d)

Sol. Required ratio = $\frac{380}{160} = \frac{38}{16}$

S69. Ans.(c)

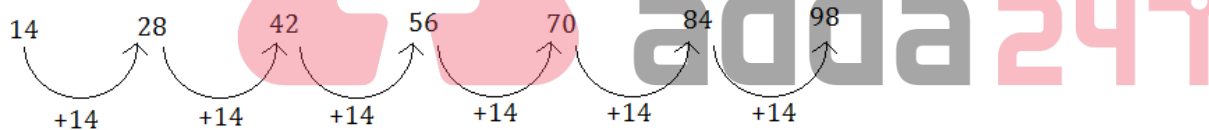
Sol. = 50 + 10 + 20
=80

S70. Ans.(b)

Sol. Car-cycle is the correct answer, because there is no mutual match between both of them.

S71. Ans.(b)

Sol.



S72. Ans.(c)

Sol. One World Trade Center is the main building of the rebuilt World Trade Center complex in Lower Manhattan, New York City. One WTC is the tallest building in the United States, the tallest building in the Western Hemisphere, and the sixth-tallest in the world.

S73. Ans.(c)

Sol. The Rock Garden of Chandigarh is a sculpture garden in Chandigarh, India. It is also known as Nek Chand's Rock Garden after its founder Nek Chand Saini, a government official who started the garden secretly in his spare time in 1957. Today it is spread over an area of 40 acres.

S74. Ans.(c)

Sol. $(w-9)^2 = w^2 + 81 - 18w$

S75. Ans.(d)

Sol. effective rate = $5 + 5 + \frac{5 \times 5}{100}$
= 10.25%

S76. Ans.(b)

Sol.

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S77. Ans.(d)

Sol. Mouse here is a Rodent

S78. Ans.(d)

Sol. +11 series.

S79. Ans.(b)

Sol. $1\$ = 67.89 + 1.11 = 69.00$
 $= 150 \times 69$
 $= 10,350$

S80. Ans.(b)

Sol. $\pi r^2 = 9\pi$
 $r = 3$
 $2\pi r = 6\pi$



S81. Ans.(b)

Sol. "Maharatna" refers to a group of Central public sector enterprises.

S82. Ans.(a)

Sol. fiction books in L3 & L4 = $500 + 350 = 850$
Non fiction books in L3 & L4 = $450 + 300 = 750$
Required difference = $850 - 750$
 $= 100$

S83. Ans.(c)

Sol. L1 + L3 : L2 + L4
 $950 + 850 : 800 + 650$
 $36 : 29$

S84. Ans.(b)

Sol. Non - fiction : fiction
 $1500 : 1750$
 $6 : 7$

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S85. Ans.(d)

Sol. ASCII stands for American Standard Code for Information Interchange. Below is the ASCII character table, including descriptions of the first 32 characters. ASCII was originally designed for use with teletypes, and so the descriptions are somewhat obscure and their use is frequently not as intended.

S86. Ans.(c)

Sol. The first Olympics games was held in Greece.

S87. Ans.(a)

Sol.

$$\frac{5}{3} : \frac{10}{2} : \frac{20}{1} = 55$$

$\downarrow \times 3$ $\downarrow \times 3$
 $\frac{15}{20} : \frac{30}{2} : \frac{60}{1} = 165$

(60)

S88. Ans.(c)

Sol. $\frac{5}{4} = 1.25$

$\frac{4}{3} = 1.33$

$\frac{3}{2} = 1.50$

$\frac{6}{5} = 1.20$

**S89. Ans.(c)**

Sol. Pichai Sundararajan (born July 12, 1972), also known as Sundar Pichai is an Indian-American business executive. He is an engineer and the chief executive officer (CEO) of Google LLC. Formerly the Product Chief of Google, Pichai's current role was announced on August 10, 2015.

S90. Ans.(b)

Sol. The periodicity of the Commonwealth games is 4 years.

S91. Ans.(a)

Sol. The 2023 ICC Cricket World Cup is scheduled to be hosted by India. India was selected as the host at an International Cricket Council (ICC) meeting in London in June 2013. This will be the 13th Cricket World Cup competition. It will be the fourth time that India will be the host.

S92. Ans.(c)

Sol. Japan has successfully launched its first commercial satellite on 24 November 2015 as part its national space programme.

S93. Ans.(d)

Sol. Sikkim is a state in northeast India, bordered by Bhutan, Tibet and Nepal. Part of the Himalayas, the area has a dramatic landscape that includes India's highest mountain, 8,586m Kangchenjunga.

S94. Ans.(a)

$$\begin{aligned}\text{Sol.} &= 17 + 7 \times 27 \div 7 - 37 \\ &= 17 + 27 - 37 \\ &= 7\end{aligned}$$

S95. Ans.(b)

$$\begin{aligned}\text{Sol.} &= 1 - 7 \div 21 - 2 + 2 \div 3 \times 4 \\ &= 1 - \frac{1}{3} - 2 + \frac{8}{3} \\ &= -1 + \frac{7}{3} \\ &= \frac{4}{3}\end{aligned}$$

S96. Ans.(c)

$$\text{Sol. } \frac{10 \times 30}{1} = \frac{15 \times x}{2}$$

x = 40 days.

S97. Ans.(c)

S98. Ans.(b)

S99. Ans.(d)

Sol. Hydrogen sulfide is the chemical compound with the formula H₂S. It is a colorless chalcogen hydride gas with the characteristic foul odor of rotten eggs. It is very poisonous, corrosive, and flammable. This is not a bleaching agent

S100. Ans.(c)

Sol. The Chauri Chaura incident occurred at Chauri Chaura in the Gorakhpur district of the United Province, (modern Uttar Pradesh) in British India on 5 February 1922, when a large group of protesters, participating in the Non-cooperation movement.



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