

SSC CHSL (Tier-I) Practice Set

Answers with Explanation

1. (b) Olaf Scholz was sworn in as Germany's new chancellor on 8 November 2021, formally taking power after Angela Merkel's historic 16 years as leader প্র্যাচিউর্স
2. (b) The Olympic bronze medal winning Indian hockey player. Rupinder Pal Singh has announced his retirement from international hockey to make way for young and talented players.
3. (b) Sangai festival is an annual cultural festival organised by Manipur Tourism Department every year from 21 to 30 November.
4. (a)
5. (d) States with Highest Forest area/Cover :
 - **Area-wise Madhya Pradesh has the largest forest cover** in the country followed by Arunachal Pradesh, Chhattisgarh, Odisha and Maharashtra.
 - **In terms of forest cover as percentage of total geographical area, the top five states are** Mizoram Arunachal Pradesh, Meghalaya, Manipur and Nagaland.
 - The term **forest area** denotes the **legal status of the land** as per the government records whereas the term **forest cover indicates presence of trees over any land.**
6. (d) The **Vande Bharat Express**, also known as **Train 18** is an Indian semi high speed, intercity, EMU train which was designed and manufactured by Integral Coach Factory (ICF) at Perambur, Chennai under the Indian government's Make in India initiative, over a span of 18 months. প্র্যাচিউর্স
7. (a) Pulakeshin II, the King of the Chalukya dynasty defeated Harshavardhana when he seeks to enlarge his Empire into the southern peninsula of India. He defeated Harshavardhana on the banks of the Narmada river in 630 A.D.
8. (b) Purusha sukta is the Xth mandal of the Rig Veda that explains the origin of four varnas viz. brahmana, Kshatriya, Vaishya and Shudra.
9. (c) The Ibadat Khana was a meeting house built in 1575 CE by the Mughal Emperor Akbar at Fatehpur Sikri to gather spiritual leaders of different religious grounds so as to conduct a discussion on the teachings of the respective religious leaders. প্র্যাচিউর্স
10. (a) The system of ranking of Du-Aspa and Sih-Aspa was introduced by the emperor Jahangir. It was an honourable ranking given to Mansabdars who owned horses. Shahjahan was the emperor who used it extensively and formalised it after being established by his father. প্র্যাচিউর্স
11. (b) The Provisional Government of Free India (Arzi Hukumat-e-Azad Hind) or, more simply, Azad Hind, was an Indian provisional government established in Japanese occupied Singapore during World War II. It was created in October 1943 and supported by - as well as largely dependent on - the Empire of Japan
12. (b) all export and import-related activities including custom duty are governed by the Foreign Trade Policy (FTP), which is aimed at enhancing the country's exports and use trade expansion as an effective instrument of economic growth and employment generation.
13. (d) প্র্যাচিউর্স
14. (a)
15. (a) Indirect tax is the kind is a tax which is levied on goods and services and its final burden falls on the consumers. That is why it causes a burden on the poorer section of the society.
16. (b)
17. (d) all but Palar river are Western Ghat rivers.
18. (b) The foothills zone of Himalayas is known as Siwalik. It stretches from the Indus River to the Brahmaputra river with an average width of 10-50 kilometers.
19. (c) Khardung La is a mountain pass in the Leh district of the Indian union territory of Ladakh. Built in 1976, it was opened to public motor vehicles in 1988. Maintained by the Border Roads Organisation, the pass is strategically important to India as it is used to carry supplies to the Siachen Glacier. The road is one of the world's highest motorable roads.
20. (d) The southwest monsoon arrives in Kerala in the last (3-4) days of May. প্র্যাচিউর্স
21. (d) berubari case was the Presidential Reference Under art. 143(1) of the Constitution of India on the implementation of the Indo-Pak agreement relating to berubari union and exchange of enclaves which come up for

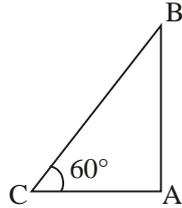
- consideration by a bench consisting of eight judges. প্র্যাচিভর্স
22. (b) The Estimates Committee has 30 members, all of them being from Lok Sabha. There is no representation from the Rajya Sabha.
23. (c) Xerophthalmia is a serious eye disorder associated with vitamin a deficiency.
24. (c) Desert coolers are based on the simple principle that when unsaturated air comes in contact with water, the water evaporates. In the process, the moisture content of air increases, while its temperature decreases. The resulting cold but moist air is used for providing cooling.
25. (b) $HF < HCl < HBr < HI$ is the correct increasing order of the acidic strength
- The acidic strength is the tendency of acid to be able to dissociate into a proton H^+ and an anion
 - A strong acid completely ionizes in a solution and a weak acid only partially ionizes.
 - The polarity of the Hydrogen-atom bond determines the acid strength.
 - The stronger an acid is, the lower the pH it would produce in solution. প্র্যাচিভর্স
26. (c) $\cos^2 \theta = \frac{(x+y)^2}{4xy}$
- Max value of $\cos^2 \theta = 1$
- $\Rightarrow 1 = \frac{(x+y)^2}{4xy}$
- $\Rightarrow 4xy = (x+y)^2$
- $\Rightarrow 4xy = x^2 + y^2 + 2xy$
- $\Rightarrow 0 = x^2 + y^2 - 2xy$
- $\Rightarrow 0 = (x-y)^2$
- $\Rightarrow 0 = x - y$
- $\Rightarrow x = y$ প্র্যাচিভর্স
27. (b) $\Rightarrow 7\sin^2\theta + 3\cos^2\theta = 4$
- $\Rightarrow 7\sin^2\theta + 3(1+\sin^2\theta) = 4$
- $\Rightarrow 7\sin^2\theta + 3 - 3\sin^2\theta = 4$
- $\Rightarrow 4\sin^2\theta = 1$
- $\Rightarrow \sin^2\theta = \frac{1}{4}$
- $\Rightarrow \sin\theta = \frac{1}{2}$
- $\Rightarrow \sin\theta = \sin 30^\circ$
- $\Rightarrow \theta = 30^\circ$ প্র্যাচিভর্স
- $\tan 30^\circ = \frac{1}{\sqrt{3}}$
28. (d) average amount of interest paid by the company during the given period প্র্যাচিভর্স
- Rs. $\left[\frac{23.4 + 32.5 + 41.6 + 36.4 + 49.4}{5} \right]$ lakhs
- Rs. $\left[\frac{183.3}{5} \right]$ lakhs
- = Rs. 36.66 lakhs
29. (c) Required percentage
- $= \left[\frac{(3.00 + 2.52 + 3.84 + 3.68 + 3.96)}{(288 + 342 + 324 + 336 + 420)} \times 100 \right] \%$
- $= \left[\frac{17}{1710} \times 100 \right] \% \approx 1\%$
30. (b) Required ratio প্র্যাচিভর্স
- $= \left[\frac{(83 + 108 + 74 + 88 + 98)}{(98 + 112 + 101 + 133 + 142)} \right]$
- $= \left[\frac{451}{586} \right] = \frac{1}{1.3} = \frac{10}{13}$
31. (a) $V_1 : V_2 = 1 : 1$
- $\pi r_1^2 h_1 : \pi r_2^2 h_2 = 1 : 1$
- $\frac{r_1^2}{r_2^2} \times \frac{1}{2} = \frac{1}{1}$
- $r_1 : r_2 = \sqrt{2} : 1$
32. (b) Let water raised be x
- $2 \times \frac{4}{3} \pi \times (3)^2 = \pi \times (6)^2 \times x$
- $72 \pi = \pi \times 36x$
- $x = 2 \text{ cm}$ প্র্যাচিভর্স
33. (d) Let breadth = x. then, length = 2x. then,
- $(2x - 5)(x + 5) - 2x \times x = 75$
- $\Rightarrow 5x - 25 = 75 \Leftrightarrow x = 20$
- So, length of the rectangle = 2x
- Therefore, $2 \times 20 \text{ cm} \Rightarrow 40 \text{ cm}$.
34. (b) Height of the equilateral triangle = $20\sqrt{2}$
- $= \left(\frac{\sqrt{3}}{2} \right) \text{ side} = 20\sqrt{2}$
- $= \text{side} = \frac{(40\sqrt{2})}{\sqrt{3}} \text{ cm}$ প্র্যাচিভর্স
- $\Rightarrow \text{area of equilateral triangle}$
- $= \left(\frac{\sqrt{3}}{4} \right) \text{side}^2 = \left(\frac{\sqrt{3}}{4} \right) \times \left[\left(\frac{40\sqrt{2}}{\sqrt{3}} \right) \right]^2$

$$\Rightarrow \text{area of equilateral triangle} = \left(\frac{800\sqrt{3}}{3}\right) \text{cm}^2$$

\therefore area of equilateral triangle is অ্যাচিভার্স

$$= \left(\frac{800\sqrt{3}}{3}\right) \text{cm}^2$$

35. (d) Let AB be the wall and BC be the ladder



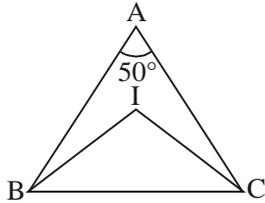
Then, $\angle ACB = 60^\circ$ and $AC = 4.6\text{m}$.

$$\frac{AC}{BC} = \cos 60^\circ = \frac{1}{2}$$

$$\begin{aligned} \Rightarrow BC &= 2 \times AC \\ &= (2 \times 4.6)\text{m} \\ &= 9.2\text{m} \end{aligned}$$

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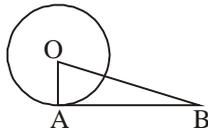
36. (a)



$$\begin{aligned} \angle BIC &= 90^\circ + \frac{\angle A}{2} \\ \Rightarrow \angle BIC &= 90^\circ + \frac{58^\circ}{2} \\ \Rightarrow \angle BIC &= 90^\circ + 29^\circ = 119^\circ \end{aligned}$$

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37. (b)



Given : Largest chord in a circle is the diameter, \Rightarrow radius $OA = \frac{10}{2} = 5$ cm and $OB = 13$ cm

To find : $AB = ?$

$$\begin{aligned} \text{Solution : In right } \triangle OAB \\ \Rightarrow (AB)^2 &= (OB)^2 - (OA)^2 \\ \Rightarrow (AB)^2 &= (13)^2 - (5)^2 \\ \Rightarrow (AB)^2 &= 169 - 25 = 144 \\ \Rightarrow AB &= \sqrt{144} = 12 \text{ cm} \end{aligned}$$

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38. (d) Failed in mathematics, $n(1) = 34$

Failed in English, $n(2) = 42$

$$n(A \cup B) = n(1) + n(2) - n(A \cap B)$$

$$= 34 + 42 - 20 = 56$$

Failed in either or both subjects are 56

$$\text{Percentage passed} = (100 - 56)\% = 44\%$$

39. (c) Let CP of Horse = x

according to the questions অ্যাচিভার্স

$$x \times \frac{20}{100} - (20000 - x) \times \frac{10}{100} = 20000 \times \frac{2}{100}$$

$$x = \text{Rs. } 8,000$$

40. (d) amount =

$$15000 \left(1 + \frac{2}{100}\right) \left(1 + \frac{4}{100}\right) \left(1 + \frac{5}{100}\right)$$

$$= \text{Rs. } 16707.60$$

41. (a) Let the length of one train be x

Then, the distance covered = $2x$

Relative speed = $(78 - 68) = 10$ km per hour

$$= \left(\frac{5}{18} \times 10\right)$$

$$\text{Speed} = \frac{\text{Distance}}{\text{time}}$$

$$= \frac{5}{18} \times 10 = \frac{2x}{72} = 100 \text{ m}$$

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42. (b) A is 50% more efficient than B.

Ratio of the works A and B done in 1 day

$$150 : 100 = 3 : 2$$

Work done by A and B together in 1 day

$$= \frac{1}{15}$$

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$$\therefore \text{A's 1 day's work} = \frac{1}{15} \times \frac{3}{5} = \frac{1}{25}$$

Hence, A alone finish the all work in 25 days.

43. (c) A : B

$$(\text{Amount} \times \text{time}) \rightarrow 21,000 \times 12 : 42,000 \times x$$

according to the question,

$$21,000 \times 12 = 42,000 \times x$$

$$\Rightarrow x = 6$$

He joined after 6 months

44. (b) LCM of 2, 5, 9, 11 = 990

$$\text{Thus, the required number} = 990 + 1 = 991$$

45. (c) If the numbers be $2x$ and $3x$, then LCM of $2x$ and $3x = 6x$

$$\text{LCM} = 48 \text{ (given)}$$

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$$\therefore 6x = 48$$

$$x = \frac{48}{6} = 8$$

\therefore Two numbers are $(8 \times 2 = 16)$ and $(8 \times 3 = 24)$ respectively

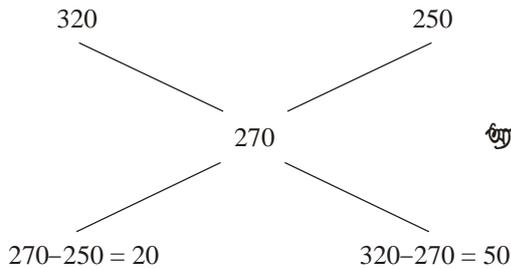
$$\therefore \text{Sum} = 16 + 24 = 40$$

46. (d) Given SP = 324, then

$$\text{CP of the mixture} = \frac{\text{SP} \times 100}{100 - \text{Gain}\%}$$

$$= \frac{324 \times 100}{100 + 20} = \frac{324 \times 100}{120} = 270$$

by alligation rule



$$\text{Required ratio} = 20 : 50 = 2 : 5$$

47. (a) Let distance covered by A, B and C = d
-
- Now, speed of A = 6x
-
- and speed of B = 3x
-
- and speed of C = x

This distance is covered by C in $1\frac{1}{2}$ h

Time taken to covered this distance by

$$C = \frac{\text{Distance}}{\text{Speed}}$$

$$\Rightarrow \text{Time} = \frac{d}{x}$$

$$\Rightarrow 90 = \frac{d}{x}$$

$$\Rightarrow x = \frac{d}{90} \dots\dots(i)$$

Now, time taken to covered this distance by

$$A = \frac{\text{Distance}}{\text{Speed}}$$

$$\Rightarrow \text{Time} = \frac{d}{6x} = \frac{d}{6 \times \frac{d}{90}} \text{ [from Eq.(i)]}$$

$$\Rightarrow \text{Time} = \frac{d \times 90}{6 \times d} = \frac{90}{6} = 15 \text{ min}$$

Time = 15 min

48. (a) Required number of students = HCF of 1001 and 910

$$\begin{array}{r} 910 \overline{) 1001} \quad (1 \\ \underline{910} \\ 91 \quad (10 \\ \underline{910} \\ 0 \end{array}$$

Hence, HCF = 91

49. (c) Total price of the two pens = Rs [(20 × 18) - (18 × 15.50)] = Rs. 81

Let the price of other pen = Rs. 2x

$$\text{So, } x - 2x = 81$$

$$x = 27$$

The price of the two pens are Rs. 27 and Rs 54

50. (b) R : S = 1 : 1

$$S : P = 2 : 3$$

$$R : N = 1 : 2$$

$$R : S : P : N = 2 : 2 : 3 : 4$$

$$\text{Then } \frac{2x + 2x + 3x + 4x}{4} = 55$$

$$x = 20$$

Only Pooja and Neenu have equal to or greater than 60 kgs.

51. (c) The correct order is :

Key	Lock	Door	Room	Switch on
1	3	2	4	5

52. (d) The relationship between 729 and 3 is

$$\sqrt[3]{729} = 9 \text{ and so, } \sqrt[3]{64} = 4$$

53. (c) Iron deprivation is anaemia and the condition in which there is sleep deprivation is insomnia

54. (d) 64 92 148 ?

$$+28 \quad +56 \quad +112$$

Hence, '?' Will be replaced by 260

55. (d) Here the series is

$$5 \times 1 + 1^2 = 6$$

$$6 \times 2 + 2^2 = 16$$

$$16 \times 3 + 3^2 = 57$$

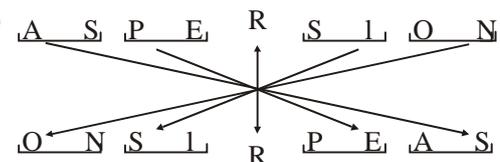
$$57 \times 4 + 4^2 = 244$$

$$244 \times 5 + 5^2 = 1245$$

$$1245 \times 6 + 6^2 = 7506$$

Hence, ? should be replaced by 244

56. (b)



CL	O	UD
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UD	O	CL
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57. (a) Kharif crop

Groundnut

58. (a)
- $50 \times \frac{56}{8} = 350$

$$48 \times \frac{32}{8} = 192$$

Similarly,

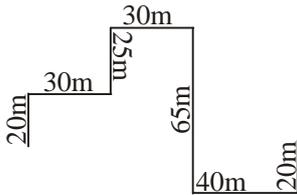
$$30 \times \frac{40}{8} = 150$$

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59. (c) 

and according to the figure it is true that some chimpanzees are elephants. But Elephants don't have any relation with tigers. So, the conclusion 1 is wrong but 2 is true.

60. (a)



Closely, observe the drawn figure, She is in East of her starting position.

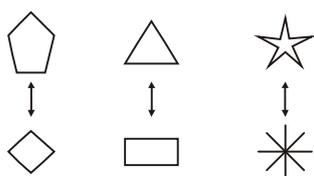
61. (b) $27 \times 2 - 24 \div 8 + 4$
 $= 54 - 3 + 4$
 $= 58 - 3$
 $= 55$

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62. (d) Order of words as per Dictionary :

3. Franklmoign
 ↓
 1. Frankenstein
 ↓
 2. Frankincense
 ↓
 4. Frauendienst

63. (b)

64. (c) 

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65. (a) M O Q ? U
 +2 +2 +2 +2

Hence, 'S' will come in the place of '?'
 Similarly, if we observe the every 2nd letter of each of the terms, then we can find that 'M' will come as the 2nd letter in the missing term [D + 3 = G; G + 3 = J; J + 3 = M]
 In case of the number

$$5 \quad 7 \quad 10 \quad ? \quad 19$$

$$+2 \quad +3 \quad +4 \quad +5$$

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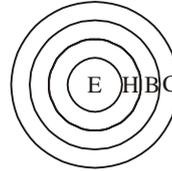
66. (d) $\frac{14 \times 5}{7} = 10$
 $\frac{18 \times 2}{4} = 9$

$$\frac{16 \times 3}{2} = 24$$

$$\frac{13 \times 6}{2} = 39$$

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67. (a)



68. (c)

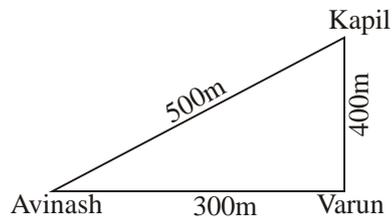
69. (d) $3^2 + (4)^2 = 65$

$$(9)^2 + (8)^2 = 145$$

70. (b)

71. (d)

72. (c)



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The distance between Avinash's house and Varun's house is 300 meter.

73. (b) 

74. (b) Pages either new or white but not both
 $= 43 + 57$
 $= 100$

75. (d)

76. (c) Lusophilia means an affection for Portuguese language and culture

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77. (b)

78. (d)

79. (a) 'was' undertaken; singular verb will be used for the word 'production'

80. (c) Canard : a false report or piece of information that is intended to deceive people.

81. (c) 'Inculcate' is the correct spelling.

82. (c)

83. (a) Replace 'glance at' with 'glance over' Glance over something (a wide surface) : to examine something very quickly.

84. (b) Replace 'with regard of' with 'with regard to'.

As 'with regard to a matter' is the correct prepositional phrase.

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85. (c) Replace 'come by' with 'come about'.

Come about : Happen; take place

Come by : manage to acquire or obtain (something).

- Hence, 'come about' fits in the context appropriately.
86. (d) প্র্যাচিভর্স
87. (c)
88. (b) Sternutation : the action of sneezing
Hence Sternutation and Sneezing are synonyms to each other.
89. (b) Incinerate: destroy (something especially waste material) by burning.
Hence Incinerate and burn are synonyms to each other.
90. (b) Repine to express dissatisfaction, pain or resentment usually tiresomely.
Gripe complain about something in a persistent, irritating way.
Rejoice : feel or show great joy or delight.
Quibble : argue or raise objections about a trivial matter. প্র্যাচিভর্স
Bleat make a characteristic weak, wavering cry.
Hence, Repine and Rejoice are antonyms to each other.
91. (a) Sapient : having or showing deep understanding and intelligent application of knowledge
Imbecile : stupid; idiotic.
Hence Sapient and Imbecile are antonyms to each other.
92. (c) The answer can be easily inferred from the last few sentences of the last paragraph of the passage.
... "This is where the importance of women's political empowerment comes democracy can become 'politics of difference' and 'politics of presence.'" প্র্যাচিভর্স
93. (a) The last sentence of the 2nd paragraph clearly states the opposite of what is stated in the option (a)
"... Rural women in the asia-Pacific region make critical contributions to household production and national food security, yet their contribution is hardly acknowledged."
94. (b) Refer to the 2nd sentence of the 2nd paragraph of the passage.
"... as Renana Jhavwala of SEWA and member of UN Secretary General's High Level Panel on Women's Economic Empowerment aptly says, "Women's work is invisible ... women are at the base of the economic pyramid."
95. (c) The answer can be easily inferred from the 3rd sentence of the 3rd paragraph of the passage.
"... This scheme has pulled millions out of poverty."
96. (d) refer to the 3rd sentence of the last paragraph of the passage. "... Policy makers across the world have placed great emphasis on gender equality."
97. (a) প্র্যাচিভর্স
98. (c) Cadence: a consistent rhythm or beat.
99. (b) Hard up: to not have enough of something important or valuable.
Hard on: to treat or criticize somebody.
Hence, 'hard up' is the right usage.
100. (a) Subvention: a grant of money, as by a government or some other authority; in aid or support of some institution or undertaking.