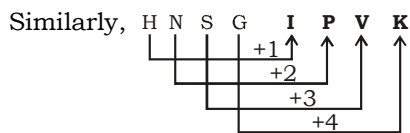
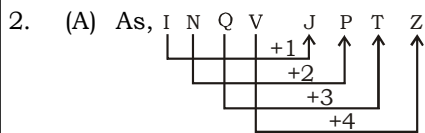


SSC MOCK TEST - 114 (SOLUTION)

1. (B) As, the folk-dance of Gujarat is Garba. Similarly, the folk-dance of Punjab is **Bhangra**



3. (C) As, $108 \times 108 = 11664$

Similarly, $106 \times 106 = \mathbf{11236}$

4. (D) Except **Freezing-Cold**, in others 2nd happens due to 1st.

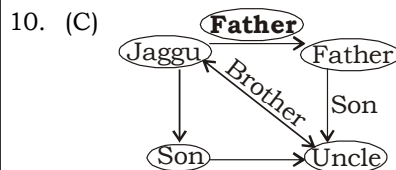


6. (A) $(12)^2 - (12 - 2)^2$
 $(21)^2 - (21 + 1)^2$
 $(5)^2 - (5 + 1)^2$
 $(13)^2 - (13 + 1)^2$

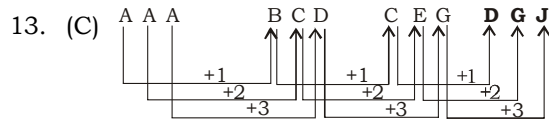
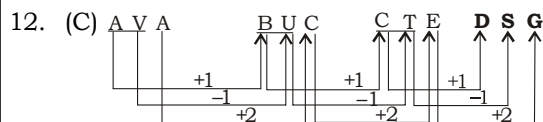
7. (B) **OPTICS**



9. (B) Temple \rightarrow Trainef \rightarrow Trainign \rightarrow Troup \rightarrow Tented



11. (B) $84 \rightarrow 42 \rightarrow 28 \rightarrow 21 \rightarrow 16.8$



14. (D) $48P4R3Q56Q4$
 change the symbol as per detail,
 $48 \div 4 + 3 \times 4 - 6 \times 4 = 12 + 12 - 24 = \mathbf{0}$,

15. (A) $(9 + 11) \times 3 = 60$

$(13 + 17) \times 4 = 120$

$(40 + 41) \times 5 = \mathbf{405}$

16. (D) $7 + 2 + 4 + 6 = 19$

$8 + 3 + 2 + 6 = 19$

$2 + 4 + 7 + \mathbf{6} = 19$

17. (B) $4 \times 3 \times 5 + 10 = 70$

$11 \times 8 \times 2 + 10 = 186$

$7 \times 5 \times 3 + 10 = \mathbf{115}$

18. (C) $(7 + 4) \times 8 = \mathbf{88}$

$(5 + 5) \times 6 = 60$

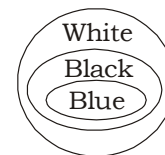
$(3 + 1) \times 4 = 16$

19. (B) **ATQ,**

Required number = $43 + 57 = \mathbf{100}$

20. (D) 21. (B) 22. (A)

23. (A) **I. True II. True**



24. (A) 25. (C)

26. (D) • Jaldapara National Park is a national park situated at the foothills of the Eastern Himalayas in Alipurduar District of northern West Bengal and on the banks of the Torsa River.

- Gorumara National Park is a National Park in northern West Bengal, India. Located in the Dooars region of the Himalayan foothills, it is a medium-sized park with grasslands and forests.

- Jim Corbett National Park is the oldest national park in India and was established in 1936 as Hailey National Park to protect the endangered Bengal tiger. It is located in Nainital district of Uttarakhand and was named after Jim Corbett who played a key role in its establishment.

28. (C) The Lok Sabha, unless sooner dissolved, continues to operate for five years from the date appointed for its first meeting and the expiration of the period of five

- years. However, while a proclamation of emergency is in operation, this period may be extended by Parliament by law for a period not exceeding one year at a time and not extending, in any case, beyond a period of six months after the proclamation has ceased to operate.
29. (B) TRYSEM:- Training of Rural Youth for Self Employment. Trysem was launched in 1979 as a separate national scheme for training rural youth for self employment. Both men and women were to be selected in each block and trained in both skill development and entrepreneurship to enable them to become self-employed.
32. (D) Haemophilia is a mostly inherited genetic disorder that impairs the body's ability to make blood clots, a process needed to stop bleeding. This results in people bleeding longer after an injury, easy bruising and an increased risk of bleeding inside joints or the brain.
33. (D) In 1679, the French physicist Denis Papin, better known for his studies on steam, invented the steam digester in an attempt to reduce the cooking time of food. His airtight cooker used steam pressure to raise the water's boiling point, thus cooking food much more quickly.
34. (D) The main issues are Tonicity and Osmoregulation . Animals living in freshwater have greater salt contents than the surrounding water (the water is an hypotonic solution). They have to have metabolic processes in place to prevent them from taking in too much water while retaining the salt ions they need.
35. (D) It contains all the information about the data objects. It is like storing all up-to-date information about the objects like tables, columns, index, constraints, functions etc.
36. (D) Ashoka stone pillars were meant to spread his Dhamma
37. (B) In summer, when barometer falls suddenly, a thunderstorm can be expected, and if it does not rise again upon its cessation, the weather will probably continue unsettled for several days. In summer, when a thunderstorm happens, there is little or no depression of the barometer.
39. (D) Protoplasm is the living content of a cell surrounded by a plasma membrane. Protoplasm is composed of cytoplasm, nucleoplasm and other organelles. Protoplasm contains the cell nucleus and inside the nucleus, is the nucleoplasm.
40. (A) The Twenty-fourth Amendment of the Constitution of India, officially known as The Constitution (Twenty-fourth Amendment) Act, 1971, enables Parliament to dilute Fundamental Rights through Amendments of the Constitution. It also amended article 368 to provide expressly that parliament has power to amend any provision of the constitution.
41. (A) Ticks and mites are categorized under order Arachnids of phylum Arthropoda of animal kingdom.
45. (A) **Aichi Biodiversity Targets:-** Strategic Goal A: Address the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society. Strategic Goal B: Reduce the direct pressures on biodiversity and promote sustainable use. Strategic Goal C: To improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity. Strategic Goal D: Enhance the benefits to all from biodiversity and ecosystem services. Strategic Goal E: Enhance implementation through participatory planning, knowledge management and capacity building
46. (D) The crookes glass contains cerium and other rare the Earth and has a high absorption of ultraviolet radiation. It is used in Sun glasses.
47. (B) Adrenaline is a hormone secreted by adrenal medulla during stress. This is called as emergency hormone because it initiates quick reaction which makes the individual to think and respond quickly to the stress. The hormone increases metabolic rate. there occurs dialation of blood vessels going to heart and the brain. The blood vessels reaching skin and kidneys constrict in order to provide more blood to the heart and the brain. They also increase fat metabolism thereby synthesising more energy.

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48. (D) Anthracite is a dense, shiny coal that has a high carbon content. Very little volatile matter is present in it. It gives a clean flame while burning. Anthracite contains 91% of carbon; is very little volatile and has almost smokeless burning.

49. (A) National emergency is caused by war, external aggression or armed rebellion in the whole of India or part of its territory. The President can declare such an emergency only on the basis of a written request by the Council of Ministers headed by the Prime Minister. Such a proclamation must be approved by the Parliament within one month. The emergency can be imposed for six months. It can be extended by six months by repeated parliamentary approval.

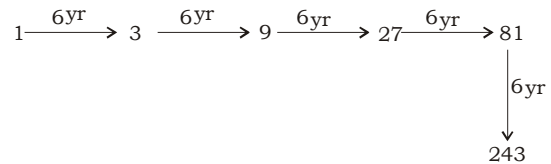
51. (C) $\frac{1}{N} = \frac{7 + 6 + 2\sqrt{42}}{1}$
 $\Rightarrow N = \frac{1}{13 + 2\sqrt{42}} = 13 - 2\sqrt{42}$

52. (A) ATQ,
 Total time = $\frac{400 + 360}{(102 - 64) \times \frac{5}{18}} = \frac{760}{38 \times 5} \times 18$
 = **72 seconds**

53. (C) ATQ,
 $4^{12} + 4^{13} + 4^{14} + 4^{15}$
 = $4^{12} (1 + 4 + 4^2 + 4^3)$
 = $4^{12} (5 + 16 + 64) = 4^{12} \times 85$
 = $4^{12} \times 5 \times 17 = 4 \times 4 \times 5 \times 17 \times 4^{10}$
 = **$80 \times 17 \times 4^{10}$**

54. (B) ATQ,
 $\frac{60}{x+y} + \frac{20}{x-y} = 4 \quad \left[\frac{1}{x+y} = u, \frac{1}{x-y} = v \right]$
 $\Rightarrow 60u + 20v = 4 \text{-----(i)} \quad \text{and,}$
 $\frac{40}{x+y} + \frac{40}{x-y} = 6$
 $\Rightarrow 40u + 40v = 6 \text{-----(ii)}$
 from equation (i) and (ii),
 $u = \frac{1}{40} \text{ and } v = \frac{1}{8}$
 then $x + y = 40 \text{-----(iii)}$ and
 $x - y = 8 \text{-----(iv)}$,
 from equation (iii) and (iv),
 $y = 16 \text{ and } x = 24$
 Hence, the speed of stream = **16 kmph**

55. (B) ATQ,



Hence, Required time = $6 + 6 + 6 + 6 + 6$
 = **30 years**

56. (A) ATQ,

$$\frac{6000 \times 15}{100} + \frac{6000 \times (-18)}{100} = -180$$

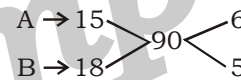
negative means loss occurs.
 Then,

$$\text{Loss percent} = \frac{180}{12000} \times 100 = 1.5$$

57. (B) ATQ,

$$\text{New selling price} = \frac{3800}{76} \times 130 = \text{₹6500}$$

58. (B) ATQ,

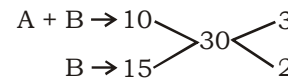


$$\text{Time take by A} = \frac{90 - (5 \times 12)}{6} = 5 \text{ hours}$$

59. (C) ATQ,

$$B = 12 \times \frac{5}{4} = 15$$

Then,



$$\text{Time taken by A} = \frac{30}{3 - 2} = 30 \text{ days}$$

60. (C) ATQ,

$$\left(x^{32} + \frac{1}{x^{32}} \right) \left(x + \frac{1}{x} \right) \left(x^{16} + \frac{1}{x^{16}} \right) \left(x - \frac{1}{x} \right)$$

$$\left(x^4 + \frac{1}{x^4} \right)$$

multiply and divided by $x^2 + \frac{1}{x^2}$

then,

$$\left(x^{32} + \frac{1}{x^{32}} \right) \left(x^2 + \frac{1}{x^2} \right) \left(x^2 - \frac{1}{x^2} \right) \times$$

$$\left(x^4 + \frac{1}{x^4} \right) \left(x^8 + \frac{1}{x^8} \right) \left(x^{16} + \frac{1}{x^{16}} \right)$$

$$= \frac{\quad}{x^2 + \frac{1}{x^2}}$$

$$\begin{aligned} & \left(x^{32} + \frac{1}{x^{32}}\right) \left(x^4 - \frac{1}{x^4}\right) \left(x^4 + \frac{1}{x^4}\right) \times \\ & \frac{\left(x^8 + \frac{1}{x^8}\right) \left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}} \end{aligned}$$

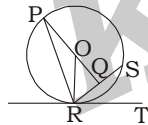
$$\begin{aligned} & \left(x^{32} + \frac{1}{x^{32}}\right) \left(x^8 - \frac{1}{x^8}\right) \times \\ & \frac{\left(x^8 + \frac{1}{x^8}\right) \left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}} \end{aligned}$$

$$\begin{aligned} & \frac{\left(x^{32} + \frac{1}{x^{32}}\right) \left(x^{16} - \frac{1}{x^{16}}\right) \left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}} \end{aligned}$$

$$\begin{aligned} & \frac{\left(x^{32} + \frac{1}{x^{32}}\right) \left(x^{32} - \frac{1}{x^{32}}\right)}{x^2 + \frac{1}{x^2}} = \frac{\left(x^{64} - \frac{1}{x^{64}}\right)}{x^2 + \frac{1}{x^2}} \end{aligned}$$

61. (B) ATQ,
 $a + b + c = -11$
 $\Rightarrow (a + 4) + (b + 5) + (c + 2) = 0$
 then, $(a + 4)^3 + (b + 5)^3 + (c + 2)^3 - 3(a + 4)(b + 5)(c + 2) = 0$

62. (B) ATQ,



$$QR = \frac{RS}{2} = 5\sqrt{2}$$

$$\angle ORQ = 90^\circ - 30^\circ = 60^\circ$$

$$\text{Then, } \cos 60^\circ = \frac{RQ}{OR} = \frac{5\sqrt{2}}{OR}$$

$$\Rightarrow OR = 10\sqrt{2} \quad \text{and,} \quad \tan 60^\circ = \frac{OQ}{RQ}$$

$$\Rightarrow 5\sqrt{2} \times \sqrt{3} = OQ$$

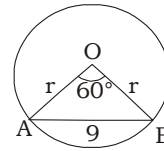
$$\Rightarrow OQ = 5\sqrt{6}$$

$$\text{Then, } PQ = PO + OQ = 10\sqrt{2} + 5\sqrt{6}$$

ΔPQR is a right angle triangle, because $\angle PQR = 90^\circ$

$$\begin{aligned} \Rightarrow PR^2 &= PQ^2 + RQ^2 \\ &= (10\sqrt{2} + 5\sqrt{6})^2 + (5\sqrt{2})^2 \\ &= 200 + 150 + 200\sqrt{3} + 50 \\ &= 400 + 200\sqrt{3} = \mathbf{200(2 + \sqrt{3})} \end{aligned}$$

63. (C) ATQ,



OAB is an isosceles triangle

then, $\angle OAB = \angle OBA$

now, in ΔAOB

$$\angle OAB + \angle OBA + 60^\circ = 180^\circ$$

$$\Rightarrow 2 \angle OAB = 120^\circ$$

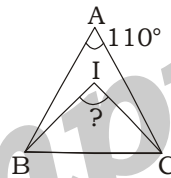
$$\angle OAB = 60^\circ$$

Thus, angles of Δ are $60^\circ, 60^\circ$ and 60° .

Hence, it is an equilateral triangle with sides 9cm

Hence, Radius = **9cm**

64. (B) ATQ,



$$\angle BIC = 90^\circ + \frac{\angle A}{2} = \mathbf{145^\circ}$$

65. (B) ATQ,

$$\tan \theta + \frac{1}{\tan \theta} = 7$$

Taking cube on both sides

$$\tan^3 \theta + \frac{1}{\tan^3 \theta} = 7^3 - 3 \times 7$$

$$\Rightarrow \tan^3 \theta + \cot^3 \theta = \mathbf{322}$$

66. (B) ATQ,

$$\tan(2B) = \frac{2 \tan B}{1 - \tan^2 B} = \frac{2 \times \frac{2}{5}}{1 - \frac{4}{25}} = \frac{20}{21}$$

$$\tan(A + 2B) = \frac{\frac{1}{3} + \frac{20}{21}}{1 - \frac{1}{3} \times \frac{20}{21}} = \frac{\frac{27}{21}}{\frac{43}{63}} = \frac{\mathbf{81}}{\mathbf{43}}$$

67. (C) ATQ,

$$\begin{aligned} \text{Required distance} &= 2 \times \frac{22}{7} \times 28 \times 10 \\ &= \mathbf{1760 \text{ cm}} \end{aligned}$$

68. (B) ATQ,

Total surface area

$$\begin{aligned} &= 2 \times \frac{22}{7} \times \frac{14}{2} \times \frac{14}{2} + 2 \times \frac{22}{7} \times \frac{14}{2} \times 15 \\ &= 308 + 660 = \mathbf{968 \text{ cm}^2} \end{aligned}$$

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69. (B) ATQ,

$$\text{Required average} = 30 + \frac{63 - 23}{50} = \mathbf{30.8}$$

70. (B) ATQ,

$$\begin{array}{lcl} A & : & B \\ 76000 \times 12 & : & 57000 (12 - x) \\ 16 & : & (12 - x) \end{array}$$

$$\text{Then, } \frac{16}{12 - x} = \frac{2}{1} \Rightarrow x = 4$$

Hence, Required time = **4 months**

71. (A) ATQ,

$$\frac{4x + 8}{5x + 8} = \frac{22}{27}$$

$$\Rightarrow x = 20$$

$$\text{The product of both number} = 4 \times 20 \times 5 \times 20 = \mathbf{8000}$$

72. (A) ATQ,

$$\begin{array}{ccc} 75 & & 100 \\ & \searrow & / \\ & 96 \times 100 & \\ & / & \searrow \\ 20 & & 5 \end{array}$$

Hence, Required ratio = **4 : 1**

73. (C) ATQ,

Total sale of Shirts

$$= (70 + 75 + 30 + 55 + 65) \times 100 = 204 \times 100$$

Total sale of Trousers

$$= (40 + 50 + 55 + 25 + 34) \times 100 = 204 \times 100$$

$$\text{Required percent} = \frac{(295 - 204) \times 100}{204 \times 100} \times 100$$

$$= \mathbf{44.61}$$

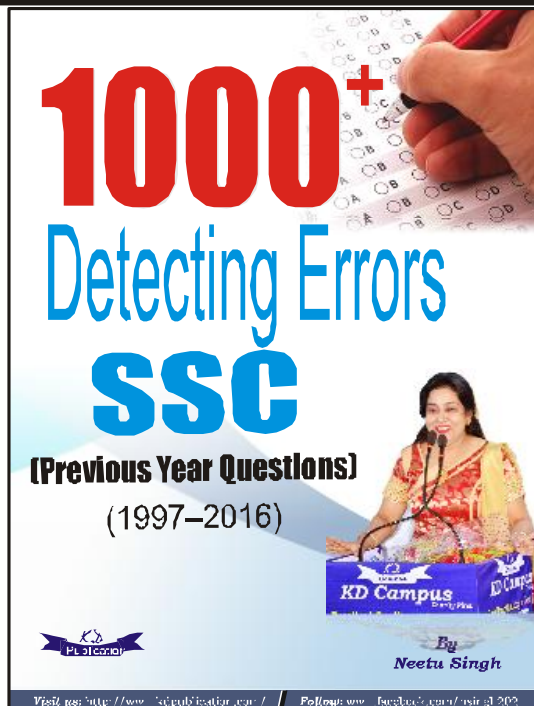
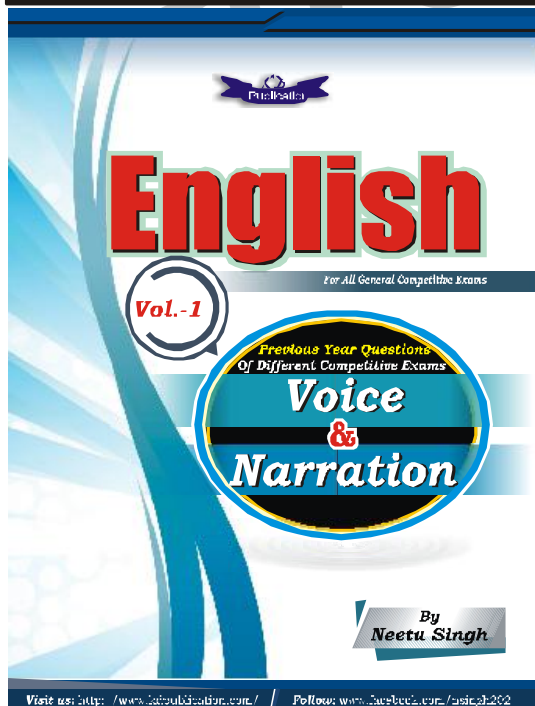
74. (C) ATQ,

$$\text{Required Number} = 7000 - 5500 = \mathbf{1500}$$

75. (A) ATQ,

$$\begin{aligned} \text{Required increment} &= \frac{(50 - 40)}{40} \times 100 \\ &= \mathbf{25\%} \end{aligned}$$

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MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Adulation	Excessive or slavish admiration	चाटुकरिता
Categorical	Absolute	सुस्पष्ट
Comply	To obey	आज्ञा पालन करना
Contend	To argue	विवाद करना
Contingent	Happening by chance	अकास्मिक
Criterion	Something that is used as reason for making a judgment or decision	मापदंड
Digression	Departure from main subject	भटकाव
Enfilade	A volley of gunfire	गोलियों का बौछार
Fortuitous	Happening by chance rather than intention	अकास्मिक
Grapple	To hold and fight with another person	लड़ना, भिड़ जाना
Harrowing	Very shocking or frightening and making you feel very upset	शोकजनक
Immaculate	Having no stain or blemish	दागरहित
Meandering	A winding path or course	घुमावदार
Oppugn	To fight against	विरोध करना
Plaudit	Praise	शाबाशी
Precedent	Prior in time, order, arrangement or significance	पूर्ववर्ती
Precedent	Something done or said that can be used as an example to be followed in the future	पूर्व उदाहरण
Profanity	offensive or disrespectful	अपमानजनक
Rake	To gather	जमा करना
Scatter	To throw things in different direction	फैला देना
Scour	Clean or brighten the surface by rubbing it hard	रगड़ कर साफ करना
Sordid	Dirty, filthy	गंदा

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SSC MOCK TEST - 114 (ANSWER KEY)

- | | | | |
|---------|---------|---------|----------|
| 1. (B) | 26. (D) | 51. (C) | 76. (C) |
| 2. (A) | 27. (A) | 52. (A) | 77. (A) |
| 3. (C) | 28. (C) | 53. (C) | 78. (B) |
| 4. (D) | 29. (B) | 54. (B) | 79. (A) |
| 5. (C) | 30. (C) | 55. (B) | 80. (B) |
| 6. (A) | 31. (A) | 56. (A) | 81. (B) |
| 7. (B) | 32. (D) | 57. (B) | 82. (A) |
| 8. (C) | 33. (D) | 58. (B) | 83. (C) |
| 9. (B) | 34. (D) | 59. (C) | 84. (D) |
| 10. (C) | 35. (D) | 60. (C) | 85. (B) |
| 11. (B) | 36. (D) | 61. (B) | 86. (B) |
| 12. (C) | 37. (B) | 62. (B) | 87. (A) |
| 13. (C) | 38. (B) | 63. (C) | 88. (D) |
| 14. (D) | 39. (D) | 64. (B) | 89. (B) |
| 15. (A) | 40. (A) | 65. (B) | 90. (C) |
| 16. (D) | 41. (A) | 66. (B) | 91. (D) |
| 17. (B) | 42. (D) | 67. (C) | 92. (C) |
| 18. (C) | 43. (B) | 68. (B) | 93. (D) |
| 19. (B) | 44. (A) | 69. (B) | 94. (C) |
| 20. (D) | 45. (A) | 70. (B) | 95. (D) |
| 21. (B) | 46. (D) | 71. (A) | 96. (D) |
| 22. (A) | 47. (B) | 72. (A) | 97. (B) |
| 23. (A) | 48. (D) | 73. (C) | 98. (C) |
| 24. (A) | 49. (A) | 74. (C) | 99. (A) |
| 25. (C) | 50. (C) | 75. (A) | 100. (D) |

88. (D) Structure for conditional sentence:

If + simple present, simple future

90. (C) 'Scissors' is a plural noun. To make it singular we add 'a pair of' before it.

94. (C) Change 'mean' into 'means'. It means 'an instrument by which an act can be accomplished. (साधन)

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777