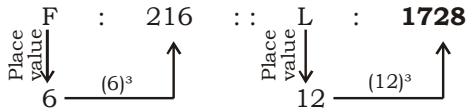
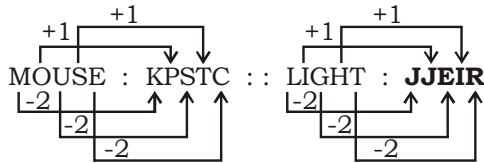


**SSC CPO SI MOCK TEST - 07 (SOLUTION)**

1. (B)  
2. (D)  
3. (A)

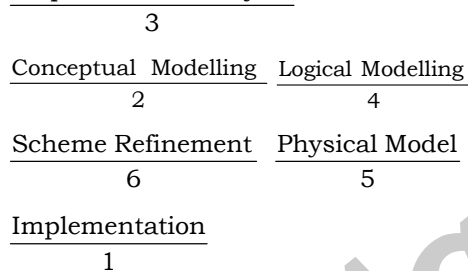


4. (C)



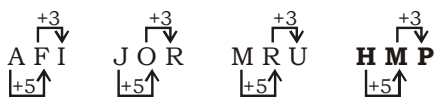
5. (A)  $264 \div 2 \Rightarrow 132 \Rightarrow 1 + 3 + 2 = 6$  and  
 $870 \div 3 \Rightarrow 290 \Rightarrow 2 + 9 + 0 = 11$   
Similarly,  
 $735 \div 5 \Rightarrow 147 \Rightarrow 1 + 4 + 7 = 12$

6. (A) Requirements Analysis



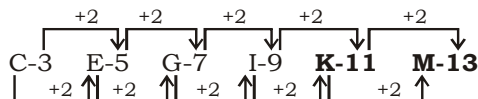
7. (A) **a a/b b b b/ a a b b/ b**  
8. (D) **a b c a b b c a b c a a b c a c b**  
9. (C)  
10. (D) Except option (D) all diseases are related to lack of vitamins  
11. (D)  
12. (D) (A)  $563 - 547 = 16$   
(B)  $71 - 55 = 16$   
(C)  $523 - 517 = 6$   
(D)  $248 - 231 = 17$   
13. (D)  $10 \Rightarrow 1 + 0 = 1 \Rightarrow (1)^2$   
 $13 \Rightarrow 1 + 3 = 4 \Rightarrow (2)^2$   
 $234 \Rightarrow 2 + 3 + 4 = 9 \Rightarrow (3)^2$   
 $682 \Rightarrow \boxed{681} \Rightarrow 6 + 8 + 2 = 16 \Rightarrow (4)^2$   
 $997 \Rightarrow 9 + 9 + 7 = 25 \Rightarrow (5)^2$

14. (B)



15. (A) bc cde de efg fg **ghi**

16. (B)

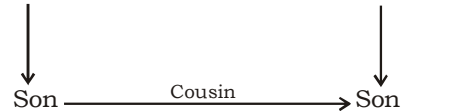


17. (C) 5      16      51      158      **481**
- (×3+1)      (×3+3)      (×3+5)      (×3+7)

18. (B)  $9 \times 2 = 18$        $9 \times 5 = 45$   
 $9 \times 9 = 81$        $9 \times 6 = 54$

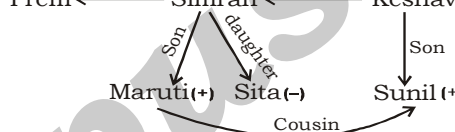
19. (C) Priti > Rahul > Yamuna = Divya > Manju > Lokita

20. (A) Man → Wife → Sister-in-law



21. (D)  $24 + 16 - 8 = 32$   
 $40 - 8 = 32$   
 $32 = 32$  (correct)

22. (A)



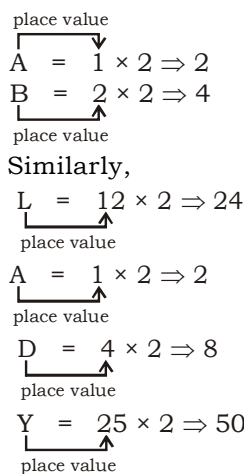
Maruti is the son of Simaran and Sunil is the son of Simran's brother/sister keshav. So, Sunil will be cousin of Maruti.

23. (D) MASTER

24. (A) NATION

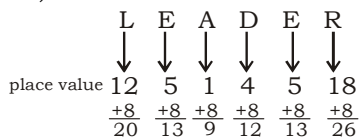
25. (B) TALENT

26. (C)

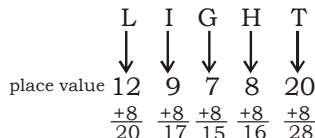


So, LADY =  $24 + 2 + 8 + 50 = 84$

27. (C)



Similarly,



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28. (D) According to question the new form of COMMUNICATIONS will be -

O C M M **N** U C I T A O I S N  
 10<sup>th</sup> letter from right

29. (C)  $8 \times 20 \div 5 + 9 - 3 = 38$

$\Rightarrow 8 \times 4 + 9 - 3 = 38$

$\Rightarrow 32 + 9 - 3 = 38$

$\Rightarrow 41 - 3 = 38$

$\Rightarrow 38 = 38$  (correct)

30. (B)  $33 * 11 \div 3 - 6 = 115$

$\Rightarrow \frac{33 \times 11}{3} - 6 = 115$

$\Rightarrow 11 \times 11 - 6 = 115$

$\Rightarrow 121 - 6 = 115$

$\Rightarrow 115 = 115$  (correct)

31. (A)  $15 + 24 \div 3 - 6 = 17$

$\Rightarrow 15 + 8 - 6 = 17$

$\Rightarrow 23 - 6 = 17$

$\Rightarrow 17 = 17$  (correct)

32. (D)  $(14 \div 2) \times 12 \Rightarrow 84$

$(18 \div 2) \times 9 \Rightarrow 81$

Similarly,

$(x \div 2) \times 11 \Rightarrow 88$

or  $(88 \div 11) \times 2$

or  $8 \times 2 = 16$

33. (D)  $3 \times 4 \times 5 = 60 \Rightarrow 60 - 2 \Rightarrow 58$

$5 \times 6 \times 2 = 60 \Rightarrow 60 - 2 \Rightarrow 58$

$8 \times 4 \times 2 = 64 \Rightarrow 64 - 2 \Rightarrow 62$

Similarly,

$7 \times 6 \times 3 = 126 \Rightarrow 126 - 2 \Rightarrow \mathbf{124}$

34. (C)  $4 \times 9 = 36 \Rightarrow \sqrt{36} = 6$

$3 \times 27 = 81 = \sqrt{81} = 9$

Similarly,

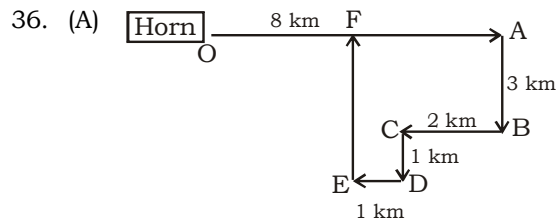
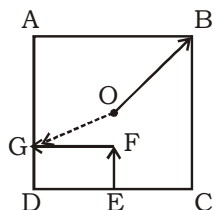
$\sqrt{2 \times x} = 10$

or,  $2 \times x = 10 \times 10$

or,  $2x = 100$

$\therefore x = 100 \div 2 = 50$

35. (D)



$OF = OA - FA$

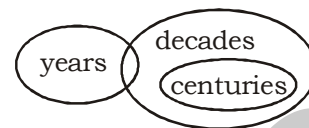
[Here,  $FA = BC + DE = 2 + 1 = 3$  km]

$= 8 \text{ km} - 3 \text{ km}$

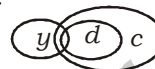
$= 5 \text{ km}$

37. (D)

38. (D)



or



Conclusions : I.  $\times$

II.  $\checkmark$

III.  $\times$

39. (D) 40. (D) 41. (D) 42. (D) 43. (C)

44. (D) 45. (A) 46. (D) 47. (D) 48. (A)

49. (B)

50. (C) The numerical groups of BEST will be -

**B** - 00, 12, **24**, 31, 43

**E** - 03, 10, **22**, 34, 41

**S** - 58, 65, **77**, 89, 96

**T** - 59, 66, 78, 85, **97**

101. (D)  $\sqrt{400} + \sqrt{4} + \sqrt{0.04} + \sqrt[3]{0.008}$

$\Rightarrow 20 + 2 + 0.2 + 0.2 = 22.4$

102. (C)  $x + \frac{1}{x} = 4$

$\Rightarrow x^3 + \frac{1}{x^3} + 3(x + \frac{1}{x}) = (4)^3$

$\Rightarrow x^3 + \frac{1}{x^3} = 64 - 12 = 52$

103. (B) Let the numbers are a and b

$\Rightarrow \frac{a}{b} = \frac{7}{11} \Rightarrow 11a = 7b - (I)$

$\Rightarrow \frac{a+7}{b+7} = \frac{2}{3} \Rightarrow 3a = 2b + 14 - (II)$

a = 49 and b = 77 after solving (1) and (2)

104. (D) 136 is also divisible by 17 so remainder 36 is when divided by 17 leaves the Remainder (2).

105. (C)  $\left[ \left( \sqrt[5]{\frac{-3}{x^5}} \right)^{-5} \right]^5$

$\Rightarrow \left( \left( x^{\frac{-3}{5}} \right)^{\frac{1}{5}} \times \frac{-5}{3} \right)^5 = \left( x^{\frac{1}{5}} \right)^5 = x$

106. (B)  $\left( 1 - \frac{1}{5} \right) \left( 1 - \frac{1}{6} \right) \left( 1 - \frac{1}{7} \right) \dots \dots \dots \left( 1 - \frac{1}{100} \right)$

$\Rightarrow \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \dots \dots \dots \frac{99}{100}$

$\Rightarrow \frac{4}{100} = \frac{1}{25}$

107. (A)  $1 + \frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3} \dots \dots \dots$

$S_n = \frac{1 \left( 1 - \left( \frac{1}{2} \right)^n \right)}{1 - \frac{1}{2}} = \frac{1 - \frac{1}{2^n}}{\frac{1}{2}} = \frac{2(2^n - 1)}{2^n}$

$S_n = \frac{2^n - 1}{2^{n-1}}$

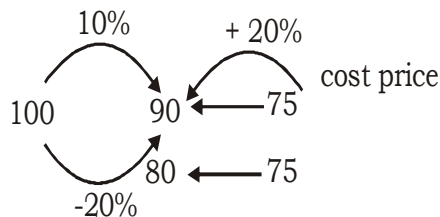
108. (C) Distance between two points = 4cm  
Ratio  $\Rightarrow 1 : 4 \times 10^5$   
actual distance  $\Rightarrow 4 \times 4 \times 10^5$  cm  
= 16km.

109. (B)  $900 = 30 \times 30$   
for perfect cube = multiply by 30  
summation =  $3 + 0 = 3$

110. (C) Let  $n = 3$   
 $(n^3 - n)(n - 2)$   
 $\Rightarrow (3^3 - 3)(3 - 2) = 24$  (divisible by 24)  
 $n = 4 = (4^3 - 4)(4 - 2) = 120$  (divisible by 24)

111. (A)

112. (A) Given Sequence



$\frac{5}{75} \times 100 = 6\frac{2}{3}$

113. (A) Two Successive 30% and 10% = 37%  
 $\Rightarrow 40\% - 37\% = 3\%$  of 500  
 $\Rightarrow ₹ 15$

114. (D) Difference =  $210 - 122 = 88$  m. in distance  
difference in time =  $25 - 17 = 8$  Sec.

speed =  $\frac{88}{8} = 11$  m/s = 39.6 km/hr.

115. (D)  $x : y = 2 : 5$

$\Rightarrow \frac{5x + 3y}{5x - 3y} = \frac{y(5\frac{x}{y} + 3)}{y(5\frac{x}{y} - 3)}$

$\Rightarrow \frac{5 \times \frac{2}{5} + 3}{5 \times \frac{2}{5} - 3} = \frac{5}{-1} = -5$

116. (C)  $\frac{20}{100}(40 + x) = 4 + x$

$4x = 20$   $x = 5$

117. (B)  $\pi r^2 = a^2$   
 $\Rightarrow a^2 = \pi r^2$

$\frac{a^2}{r^2} = \pi \Rightarrow a : r = \sqrt{\pi} : 1$

118. (D) A : B = 1 : 2 B : C = 3 : 4  
C : D = 6 : 9 D : E = 12 : 16

$\Rightarrow A : B : C = 3 : 6 : 8$

$\Rightarrow A : B : C : D = 9 : 18 : 24 : 36$

$\Rightarrow A : B : C : D : E = 9 : 18 : 24 : 36 : 48$

$\Rightarrow 3 : 6 : 8 : 12 : 16$ .

119. (B)  $2P = P \left( 1 + \frac{r}{10} \right)^t$

$\Rightarrow (2P)^3 = \left( P \left( 1 + \frac{r}{100} \right) \right)^{3t}$

$\Rightarrow 3t = 3 \times 15 = 45$  years.

120. (D)  $4, 11, 540 = p \left( 1 - \frac{5}{10} \right)^3$

$P = 4, 80, 000$

121. (C)  $100 \xrightarrow{-25\%} 75$

To Restore  $\Rightarrow \frac{25}{75} \times 100 = 33\frac{1}{3}\%$  increase

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122. (D) Reduced Price  $\frac{600 \times 25\%}{10} = ₹15$

123. (C)  $\left(\sqrt{x} + \frac{1}{\sqrt{x}}\right) = \sqrt{x + \frac{1}{x} + 2}$

$\Rightarrow \sqrt{\frac{60+24\sqrt{6}}{5+2\sqrt{6}}} = \sqrt{12}$

$= 2\sqrt{3}$

124. (B) Cube of 12 = 1728  
So, 8 should be added to 1720 to obtain a perfect cube.

125. (B)  $2^{60}, 3^{48}, 4^{36}, 5^{24} \Rightarrow 2^{60} < 2^{72}$   
 $\Rightarrow 2^{72}, 3^{48}, 5^{24}$

take  $= \sqrt[24]{2^{72}}, \sqrt[24]{3^{48}}, \sqrt[24]{5^{24}} \Rightarrow 2^3, 3^2, 5^1$

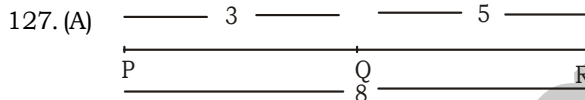
So,  
 $\Rightarrow 3^{48}$  is greatest.

126. (D)  $x \times \frac{x}{5} = 0.008$

$x = 0.040 \Rightarrow x^2 = 0.0400$

$x = 0.20$

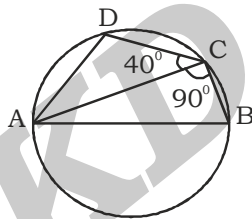
$x/5 = 0.04$



$\Rightarrow$  from three collinear point's none Circle can be drawn

$\Rightarrow$  0 Ans.

128. (A)  $\angle ACD = 40^\circ$



$\angle ACB = 90^\circ$

$\angle BAD = 180^\circ - 130^\circ$

(by cyclic quadrilateral property) =  $50^\circ$



$T_1 = \frac{D}{x} \quad T_2 = \frac{D}{y}$

Avg Speed =  $\frac{2D}{\frac{D}{x} + \frac{D}{y}} = \frac{2xy}{x+y}$

130. (C)  $A + B = 28000$   
 $B + C = 31200 \quad A + B + C = 44000$   
 $A + C = 28800$   
 $B = 15200$

131. (A) Age increment of 10 members in 2 years =  $10 \times 2 = 20$  years  
But, Average age is equal so new member is 20 years younger.

132. (C) Total profit =  $\frac{5}{15} \times 100$

$= \frac{5}{15} \times 100$

$\Rightarrow 33\frac{1}{3}\%$

133. (C)  $CI = 2400 \left(1 + \frac{8/2}{100}\right)^{2 \times \frac{1}{2}} - 2400$

$= 2496 - 2400$

$= ₹96$

134. (A) According to the Question :-

Profit Ratio  $\Rightarrow \frac{1}{4} \times \frac{1}{3} : \frac{1}{6} \times \frac{1}{4} : \frac{7}{12} \times 1$

$\Rightarrow 2 : 1 : 14$

$= A's \text{ share} = \frac{2}{17} \times 9962 = 1172$

135. (D) Let the distance = D km.

Total time = t

$\Rightarrow t = \frac{D}{8} \dots \dots \dots (I)$

$t + \frac{3}{3} = \frac{D}{6} \dots \dots \dots (II)$

$\Rightarrow$  on solving (I) & (II)  $\Rightarrow t = 2$  hr.

$D = 16$  km.

136. (C) Time taken by walking = 8hrs 20 mins

one way journey = 4hrs 10 mins

$\Rightarrow$  If he takes 4 hrs 30 mins (Riding + walking)

Riding time (one way) = 20 mins

for both ways = 40 mins.

137. (D) difference between - the profits = 5%

$5\% = 10$

$100\% = 200$

So cost price of the article is 200.

138. (D) cost of each egg =  $₹ \frac{720}{20 \times 12} \times 3$

$\Rightarrow$  with 20% profit =  $3 + \frac{3 \times 20}{100}$

$= ₹3.60$

139. (B) present cost of rice = ₹  $\frac{18 \times \frac{25}{2} \%}{\frac{1}{4}} = 9$

140. (D)  $a^3 + b^3 + c^3 - 3abc = (a+b+c)(a^2 + b^2 + c^2 - ab - bc - ca)$   
but,  $a + b + c = 2.3 + 3.2 - 5.5 = 0$   
So,  $a^3 + b^3 + c^3 - 3abc = 0$

141. (D)  $3\sqrt{2}, 5\sqrt{3}, 7\sqrt{4}$  and  $8\sqrt{9}$

$\Rightarrow \frac{1}{2^3} > \frac{2}{2^7} \Rightarrow \text{LCM}(7,3) = 21 \Rightarrow 2^7, 2^6$

$\Rightarrow \frac{1}{3^5} < \frac{1}{3^4} \Rightarrow \text{LCM}(5,4) = 20 \Rightarrow 3^4, 3^5$

$\Rightarrow \frac{1}{2^3} < \frac{1}{3^4} \Rightarrow \text{LCM}(3,4) = 12 \Rightarrow 2^4, 3^3$

$\Rightarrow$  So,  $\sqrt[3]{9}$  is greater

142. (D)  $\sin^2 q + \text{cosec}^2 q = x$

$\Rightarrow \frac{\sin^4 q + 1}{\sin^2 q}$  (minimum value of  $\sin q = -1$ )

put,  $= \frac{2}{1} = 2$  So,  $x \geq 2$

143. (C)  $\frac{\sin x}{1 + \cos x} + \frac{\sin x}{1 - \cos x} = 4$

$\Rightarrow \frac{\sin x - \sin x \cos x + \sin x + \sin x \cos x}{1 - \cos^2 x} = 4$

$\Rightarrow \frac{2 \sin x}{\sin^2 x} = 4$

$\Rightarrow \sin x = \frac{1}{2}$  so  $x = 30^\circ$

144. (B)  $\sqrt{6 + 6 + 6 + \dots} = 3$

$\tan \theta = 3$

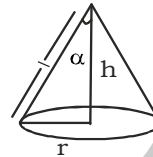
$\Rightarrow \sec^2 \theta = 1 + (3)^2 = 10$

145. (D)  $\theta$  is the Angle of elevation :-

$\tan \theta = \frac{h}{h\sqrt{3}} = \frac{1}{\sqrt{3}}$

$\theta = 30^\circ$

146. (C)  $S = \pi \alpha l$



$r = h \tan \alpha$

$l = h \sec \alpha$

$s = \pi h^2 \sec \alpha \tan \alpha$

147. (A)

148. (D)

149. (A)

150. (D)

**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
Abide	To follow (such as rules)	पालन करना/अनुसरण करना (किसी नियम का)
Aristocracy	System ruled by noble people	कुलीनतंत्र
Autocracy	System governed by a single individual	एकतंत्र
Brisk	Quick	फुर्तीला/तेजी से
Certitude	Overconfidence/total certainty	निश्चितता
Condone	Forgive	माफ करना
Democracy	System ruled by people	लोकतंत्र
Dilate	Widen	फैलना
Disseminate	Circulate	फैलाना
Fiery	Producing fire	आग्नेय
Incantation	Sounds believed to have magical effect	मंत्रोच्चार
Incredible	Unbelievable	अविश्वसनीय
Indifferent	Lack of interest	उदासीन
Inevitable	Incapable of being avoided	जो टाला न जा सके
Inquisitive	Speculative/Curious	जिज्ञासु
Intrusive	Annoying someone by interfering	दखल देने वाला
Oasis	Fertile area in arid region	मरुस्थल के बीच हरित भूमि
Overlook	Inspect	जांचना
Pail	Bucket	बाल्टी
Persuade	to cause someone to do something	मनाना
Plutocracy	System governed by wealthy people	धनिक-तंत्र
Promulgate	Publicity	प्रचार-प्रसार
Publicise	Announce	प्रचार करना
Suspicious	Suspect	संदेहजनक
Unsympathetic	Unkindly	सहानुभूति न रखनेवाला
Withhold	Keep back	रोकना

**SSC CPO SI MOCK TEST – 07 (ANSWER KEY)**

- |         |         |         |          |          |          |          |          |
|---------|---------|---------|----------|----------|----------|----------|----------|
| 1. (B)  | 26. (C) | 51. (A) | 76. (A)  | 101. (D) | 126. (D) | 151. (C) | 176. (C) |
| 2. (D)  | 27. (C) | 52. (C) | 77. (C)  | 102. (C) | 127. (A) | 152. (B) | 177. (C) |
| 3. (A)  | 28. (D) | 53. (C) | 78. (C)  | 103. (B) | 128. (A) | 153. (C) | 178. (C) |
| 4. (C)  | 29. (C) | 54. (A) | 79. (A)  | 104. (D) | 129. (B) | 154. (A) | 179. (B) |
| 5. (A)  | 30. (B) | 55. (C) | 80. (C)  | 105. (C) | 130. (C) | 155. (B) | 180. (C) |
| 6. (A)  | 31. (A) | 56. (C) | 81. (C)  | 106. (B) | 131. (A) | 156. (C) | 181. (D) |
| 7. (A)  | 32. (D) | 57. (B) | 82. (D)  | 107. (A) | 132. (C) | 157. (A) | 182. (B) |
| 8. (D)  | 33. (D) | 88. (C) | 83. (C)  | 108. (C) | 133. (C) | 158. (A) | 183. (A) |
| 9. (C)  | 34. (C) | 59. (D) | 84. (B)  | 109. (B) | 134. (A) | 159. (B) | 184. (B) |
| 10. (D) | 35. (D) | 60. (D) | 85. (D)  | 110. (C) | 135. (D) | 160. (B) | 185. (C) |
| 11. (D) | 36. (A) | 61. (C) | 86. (C)  | 111. (A) | 136. (C) | 161. (C) | 186. (C) |
| 12. (D) | 37. (D) | 62. (B) | 87. (A)  | 112. (A) | 137. (D) | 162. (A) | 187. (A) |
| 13. (D) | 38. (D) | 63. (B) | 88. (A)  | 113. (A) | 138. (D) | 163. (A) | 188. (C) |
| 14. (B) | 39. (D) | 64. (D) | 89. (C)  | 114. (D) | 139. (B) | 164. (C) | 189. (A) |
| 15. (A) | 40. (D) | 65. (A) | 90. (A)  | 115. (D) | 140. (D) | 165. (D) | 190. (D) |
| 16. (B) | 41. (D) | 66. (D) | 91. (A)  | 116. (C) | 141. (D) | 166. (B) | 191. (C) |
| 17. (C) | 42. (D) | 67. (B) | 92. (B)  | 117. (B) | 142. (D) | 167. (B) | 192. (B) |
| 18. (B) | 43. (C) | 68. (C) | 93. (A)  | 118. (D) | 143. (C) | 168. (B) | 193. (A) |
| 19. (C) | 44. (D) | 69. (C) | 94. (C)  | 119. (B) | 144. (B) | 169. (B) | 194. (B) |
| 20. (A) | 45. (A) | 70. (B) | 95. (B)  | 120. (D) | 145. (D) | 170. (C) | 195. (C) |
| 21. (D) | 46. (D) | 71. (B) | 96. (A)  | 121. (C) | 146. (C) | 171. (D) | 196. (D) |
| 22. (A) | 47. (D) | 72. (C) | 97. (D)  | 122. (D) | 147. (A) | 172. (C) | 197. (C) |
| 23. (D) | 48. (A) | 73. (A) | 98. (B)  | 123. (C) | 148. (D) | 173. (A) | 198. (A) |
| 24. (A) | 49. (B) | 74. (B) | 99. (C)  | 124. (B) | 149. (A) | 174. (D) | 199. (D) |
| 25. (B) | 50. (C) | 75. (A) | 100. (D) | 125. (B) | 150. (D) | 175. (B) | 200. (A) |

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| <p>151. (C) Change 'it's' into 'its'. It's is the contracted form of 'it is'. Here we need a possessive adjective 'its'.</p> <p>152. (B) Change 'thoroughly' into 'thorough'. Because noun is qualified by an adjective and here 'thorough' is an adjective.</p> <p>153. (C) Change 'buy' into 'buying'. If a preposition is followed by a verb, the verb must be in 'ing' form.</p> <p>154. (A) Remove 'sister'. Cousin sister is a wrong word.</p> <p>155. (B) Change 'to' into 'by'. 'Abide' is followed by a fixed preposition 'by'.</p> <p>156. (C) Remove 'usual'. 'Same' with 'usual' makes the sentence superfluous because both have the same meaning.</p> | <p>157. (A) Generally if a sentence starts with 'Past tense', it ends in past tense.</p> <p>173. (A) A sentence cannot start with 'Myself'. A reflexive pronoun can never come in the place of subject.</p> <p>175. (B) We 'had/have' our meals. With meals 'have' and its forms are the most appropriate verbs.</p> <p>176. (C) Do not use 'not' with 'unless'. 'Unless' and 'not' together become superfluous.</p> <p>179. (C) An action already started and still going on, comes under Present Perfect Continuous Tense.</p> |
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**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**

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