

*KD*  
**Campus**  
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2007, OUTRAM LINES, 1ST FLOOR, NEAR GTB NAGAR METRO STATION, GATE NO. - 2, DELHI-110009

**Answer-key & Solution**

*SSC JE (Electrical)*  
*MOCK -(53)*  
*Date 25 / 06 / 2016*

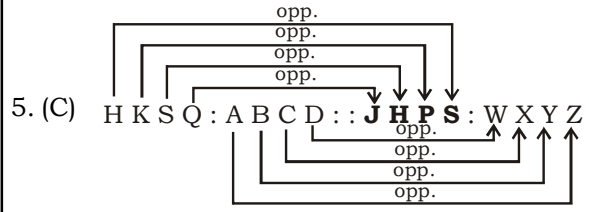
1. C	26. D	51. A	76. D	101. C	126. B	151. C	176. D
2. B	27. D	52. C	77. C	102. C	127. D	152. B	177. B
3. B	28. A	53. A	78. A	103. B	128. C	153. B	178. A
4. C	29. C	54. D	79. C	104. A	129. C	154. D	179. C
5. C	30. A	55. D	80. B	105. C	130. B	155. C	180. B
6. A	31. B	56. C	81. C	106. C	131. B	156. B	181. B
7. A	32. D	57. D	82. C	107. C	132. D	157. B	182. C
8. D	33. D	58. B	83. B	108. B	133. A	158. A	183. C
9. C	34. A	59. B	84. B	109. C	134. C	159. C	184. B
10. B	35. B	60. C	85. A	110. B	135. C	160. C	185. C
11. C	36. D	61. A	86. B	111. C	136. A	161. A	186. B
12. A	37. *	62. C	87. B	112. B	137. C	162. B	187. D
13. A	38. C	63. B	88. B	113. C	138. B	163. B	188. A
14. D	39. C	64. D	89. D	114. C	139. B	164. A	189. C
15. D	40. C	65. A	90. C	115. A	140. C	165. A	190. A
16. D	41. D	66. C	91. A	116. D	141. C	166. A	191. D
17. C	42. B	67. A	92. D	117. A	142. B	167. B	192. D
18. D	43. A	68. B	93. D	118. B	143. B	168. C	193. B
19. A	44. B	69. D	94. D	119. C	144. B	169. A	194. D
20. A	45. A	70. B	95. C	120. B	145. C	170. C	195. A
21. B	46. D	71. D	96. C	121. A	146. A	171. D	196. A
22. D	47. B	72. D	97. B	122. A	147. A	172. C	197. C
23. A	48. C	73. C	98. A	123. B	148. D	173. D	198. B
24. D	49. A	74. D	99. D	124. A	149. A	174. B	199. A
25. A	50. D	75. C	100. C	125. C	150. C	175. C	200. A

**Note :** *If your opinion differ regarding any answer, please message the mock test and Question number to 8375805483*

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

**SOLUTION SSC JE () MOCK TEST no. 53**

1. (C) As for sewing with the 'Needle', 'Thread' is used. Similarly, to write with 'Pen', 'Ink' is used.
2. (B) As 'Money' is transacted through 'Bank'. Similarly, 'Goods' are transported through 'Transport'.
3. (B) As 'Justice' is done in 'Court'. Similarly, 'Education' is imparted in 'School'.
4. (C) As 'January' and 'December' are the first and last months of the year. Similarly, 'A' and 'Z' are the first and the last letters of English Alphabet.



6. (A) As Beautiful and Awful are opposite. Similarly, Peace and War are opposite.
7. (A)  $0814 : 1526 :: 1623 : 2335$   
 $\quad \quad \quad \uparrow \quad \quad \quad \uparrow$   
 $\quad \quad \quad +712 \quad \quad \quad +712$
8. (D) As Island is a piece of land surrounded by water on all side. Similarly, Oasis is a pond of water in a Desert.
9. (C)  $248 : 3 :: 328 : 4$   
 $\quad \quad \quad \uparrow \quad \quad \quad \uparrow$   
 $\quad \quad \quad +24+8 \quad \quad \quad +32+8$
10. (B) As, 'Scissors' cuts 'Cloth'. Similarly, 'Razor' cuts "Beard'.
11. (C) All others come under the category of Jewellery.
12. (A) All others are metals.
13. (A) All others are some relevant activities.
14. (D) Except moon, all others are planets. Moon is a Satellite.
15. (D) Except option D, all others are work and their related work fields.

16. (D) (A)  $\begin{matrix} 32 & - & 41 \\ \downarrow & & \downarrow \\ 3+2=5 & & 4+1=5 \end{matrix}$  (B)  $\begin{matrix} 62 & - & 44 \\ \downarrow & & \downarrow \\ 6+2=8 & & 4+4=8 \end{matrix}$   
 (C)  $\begin{matrix} 46 & - & 28 \\ \downarrow & & \downarrow \\ 4+6=10 & & 2+8=10 \end{matrix}$  (D)  $\begin{matrix} 33 & - & 56 \\ \downarrow & & \downarrow \\ 3+3=6 & & 5+6=11 \end{matrix}$
17. (C) 'UVWX' are four consecutive alphabet. The same relationship is not found in others.
20. (A) (A)  $\begin{matrix} I & J & N & R \\ \boxed{+1} & \boxed{+4} & \boxed{+4} & \end{matrix}$  (B)  $\begin{matrix} Z & C & F & I \\ \boxed{+3} & \boxed{+3} & \boxed{+3} & \end{matrix}$   
 (C)  $\begin{matrix} Q & T & W & Z \\ \boxed{+3} & \boxed{+3} & \boxed{+3} & \end{matrix}$  (D)  $\begin{matrix} G & J & M & P \\ \boxed{+3} & \boxed{+3} & \boxed{+3} & \end{matrix}$

21. (B) It takes 22 seconds to ring 12 dongs

Time taken to ring 1 dong =  $\frac{22}{12-1} = \frac{22}{11}$   
 $= 2$  seconds

Time taken to ring 6 dongs =  $(6-1) \times 2 = 10$

22. (D) Order of bags with respect to weight-  
 $S > T > W > V$
23. (A) Arrangements as per question:  
 $8 \rightarrow 7 \rightarrow$  any other digit except 8  
 $8, \underline{8}, \underline{7}, \underline{7}, 8, 8, 7, \underline{8}, \underline{7}, \underline{7}, \underline{8}, \underline{7}, \underline{7}, 8, 8, 7, 8$
24. (D)  $B \quad D \quad A \quad \boxed{F} \quad C \quad G \quad E$

25. (A) Rahul Ravi Abhishek Ranjan Kaushik Saket Gautam  
 Left  $\longleftarrow$   $\longrightarrow$  Right  
 Ravi is between Rahul and Abhishek.

26. (D) a b a b c / b c b c a / c a c a b
  27. (D)
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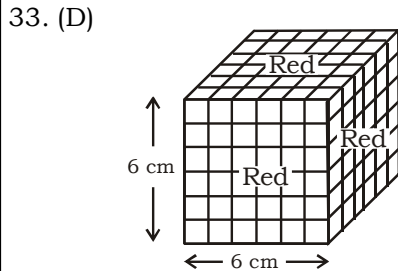
28. (A) 33, 28, 24, **21**, 19, 18  
 $\downarrow -5 \uparrow -4 \uparrow -3 \uparrow -2 \uparrow -1 \uparrow$

29. (C) 6, 10, 18, 34, **66**  
 $\times 2-2 \quad \times 2-2 \quad \times 2-2 \quad \times 2-2$

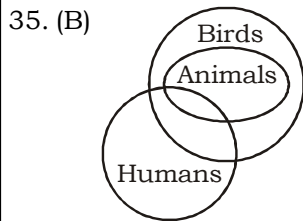
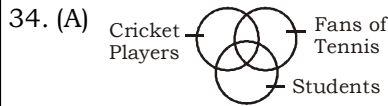
30. (A) 4, 8, 12, 24, 36, **72**  
 $\times 3 \quad \times 3$

31. (B) Day on 1 March 1997 = Friday  
 Day on 1 March 2000  
 = Friday + [(2000-1997) + leap years]  
 = Friday + [(3 + 1)]  
 = Friday + 4 = Tuesday

32. (D) In the given given formats '2' and '3' are common. Hence, as per rule number '6' will be opposite to '5'.

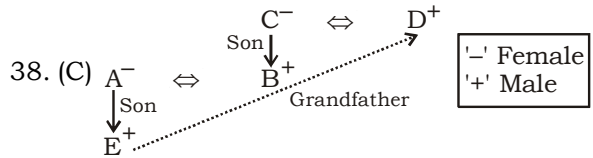
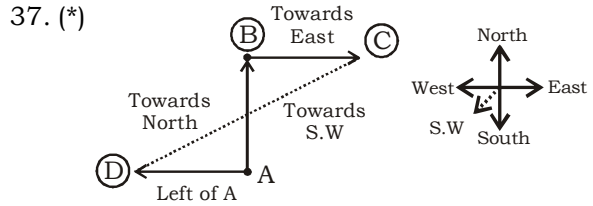


Any of the small cubes can have maximum of three sides coloured. Hence, there will be no such cube whose more than three sides will be red in colour.



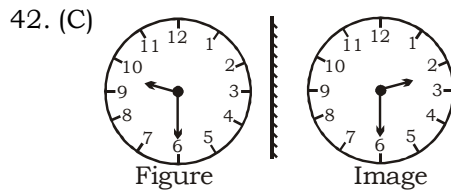
36. (D)  $30 \times 5 - 4 \div 10 + 5 = 41$   
 Changing the notations as per question  
 $30 \div 5 + 4 \times 10 - 5 = 41$   
 $\Rightarrow 6 + 40 - 5 = 41$

$\Rightarrow 46 - 5 = 41$

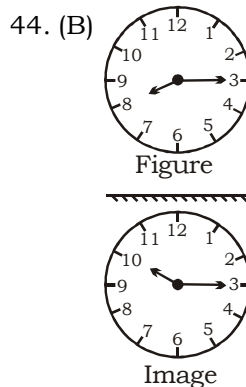


40. (C)  $R = 2S$  .....(i)  
 $R - 10 = 4(S - 10)$  .....(ii)  
 Taking R as 2S  
 $2S - 10 = 4(S - 10)$   
 $2S - 10 = 4S - 40$   
 $2S = 30$   
 $S = 15$  yrs  
 $R = 2S$   
 $R = 2 \times 15 = 30$  yrs

41. (D) Words formed with the letters SDEU  
 $\Rightarrow$  USED, DUES and SUED



Hence, in the reflection time is 2:30



$\therefore$  The time in the clock will show 10:15.

182.(C) Resulting limiting error of the series

$$\text{combination} = \frac{100 \times 10}{100} + \frac{300 \times 5}{100} = 25\Omega$$

190. (A)  $I_{CEO} = (1 + \beta)I_{CO}$

$$\beta = \frac{\alpha}{1 - \alpha} = \frac{0.995}{1 - 0.995}$$

$$\therefore I_{CEO} = (1 + 199)0.5 = 100\mu A$$

192. (D) Closed loop gain,

$$A_{CL} = \frac{V_0}{V_1} = \frac{A_{OL}}{1 + A_{OL} F_N}$$

$$\Rightarrow F_N = \frac{R_i}{R_i + R_t} = \frac{2}{10} = 0.2$$

$$A_{cl} = \frac{45}{1 + 45 \times 0.2} = 4.5$$

196. (A)  $R = [(r_1 + r_2) || r_3] + r_4 = 5\Omega$ .

197. (C)  $r_{ab} = [(r_1 || r_2) + r_3] || r_4 = 1\Omega$

$$\therefore R = r_5 + r_{ab} = 5 + 1 = 6\Omega$$

198. (B)  $R = \{[(r_1 + r_2) || r_3] + r_4\} || r_5$

$$= \{[(2 + 3)4 || 5] + 1.5\} || 4 = 2\Omega$$

199. (A) The equivalent inductance of the parallel connection is

$$L = \frac{4 \times 4}{4 + 4} = 2H$$

$\therefore$  The net inductance of the circuit across x-y is

$$L_{x-y} = 2 + 2 + 1 = 5H.$$

200. (A) The equivalent combination of  $C_1$  and

$$C_2 \text{ is } \left( \frac{2 \times 2}{2 + 2} \right) \mu F, \text{ i.e., } 1\mu F.$$

The equivalent combination of this  $1\mu F$  and  $C_1$  is  $(C_1 + 1) \mu F, 3\mu F$ .

$\therefore$  The net capacitance across x-y is

$$\frac{3 \times C_4}{3 + C_4} \text{ i.e., } \frac{3}{4} \mu F.$$