



KD Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

Answer-key & Solution

SSC JE (Electrical)
MOCK -(91)
Date:- 01.04.2017

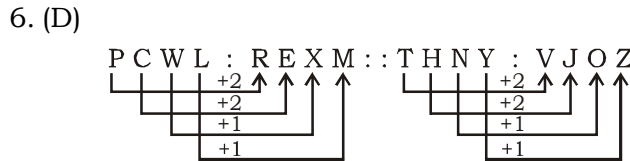
1. D	26. C	51. A	76. A	101. C	126. B	151. C	176. D
2. C	27. B	52. D	77. D	102. C	127. D	152. B	177. B
3. D	28. A	53. B	78. A	103. B	128. C	153. B	178. A
4. A	29. A	54. B	79. C	104. A	129. C	154. D	179. C
5. B	30. C	55. A	80. B	105. C	130. B	155. C	180. B
6. D	31. B	56. C	81. B	106. B	131. B	156. B	181. B
7. C	32. C	57. A	82. B	107. C	132. D	157. B	182. C
8. A	33. A	58. B	83. A	108. B	133. C	158. A	183. C
9. A	34. D	59. D	84. C	109. C	134. A	159. C	184. B
10. A	35. A	60. B	85. B	110. B	135. C	160. C	185. C
11. B	36. B	61. C	86. D	111. C	136. C	161. A	186. B
12. A	37. D	62. B	87. D	112. B	137. D	162. B	187. A
13. C	38. B	63. B	88. D	113. C	138. B	163. B	188. A
14. B	39. C	64. C	89. B	114. C	139. B	164. A	189. C
15. D	40. D	65. D	90. D	115. A	140. C	165. A	190. A
16. (A/D)	41. C	66. A	91. B	116. D	141. C	166. A	191. D
17. D	42. D	67. A	92. B	117. A	142. B	167. B	192. C
18. C	43. D	68. B	93. D	118. B	143. B	168. C	193. B
19. A	44. C	69. D	94. C	119. C	144. B	169. A	194. B
20. D	45. C	70. B	95. D	120. B	145. C	170. C	195. A
21. D	46. D	71. C	96. B	121. A	146. A	171. D	196. A
22. D	47. B	72. A	97. B	122. A	147. A	172. C	197. C
23. B	48. A	73. D	98. C	123. B	148. D	173. D	198. B
24. A	49. D	74. B	99. C	124. A	149. A	174. B	199. A
25. C	50. B	75. A	100. D	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 9560620353

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

SOLUTION SSC JE (Electrical) MOCK TEST no. 91

1. (D) Lira was the currency of Italy and Taka is the currency of Bangladesh.
2. (C) Music is based on Tune and Design is based on Architecture.
3. (D) Laugh is related to Joke and Explode is related cracker.
4. (A) President is the highest designation in India and King is the highest designation in England.
5. (B) The smallest unit of light is rays and sound is waves.



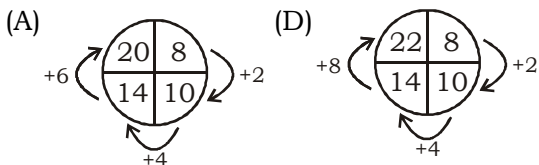
7. (C) $80 : 730 :: 48 : 344$
 $9^2-1 \quad 9^3+1 \quad 7^2-1 \quad 7^3+1$
8. (A) $130 : 154 :: 178 : 202$
 $+24 \quad +24$
9. (A) $60 : 36 :: 100 : 100$
 $(60 \div 10)^2 = (6)^2 \quad (100 \div 10)^2 = (10)^2$

10. (A) Ist is covered by the IInd except in option 'A'.
11. (B) IInd is the plae of gathering for Ist, except in option 'B'
12. (A) $B \ F \ J \ Q$ $R \ U \ Z \ G$
 $+4 \ +4 \ +6 \ +3 \ +5 \ +7$
 (C) $G \ J \ O \ V$ $I \ L \ Q \ X$
 $+3 \ +5 \ +7 \ +3 \ +5 \ +7$
13. (C) (A) $G \ E \ C \ A$ $P \ N \ L \ J$
 $-2 \ -2 \ -2 \ -2 \ -2 \ -2 \ -2 \ -2$
 (C) $V \ U \ S \ Q$ $T \ R \ P \ N$
 $-1 \ -2 \ -2 \ -2 \ -2 \ -2 \ -2 \ -2$

14. (B) The Ist number is three times the IInd number but in option B, the Ist number is four times of the IInd number.

15. (D) All are squares of a number except 210

16. (A & D)



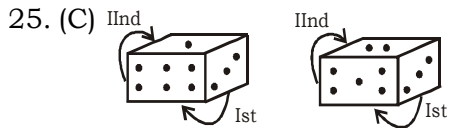
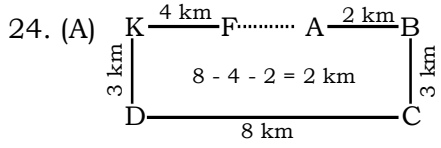
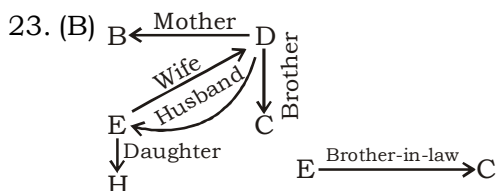
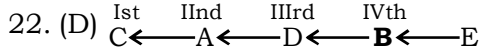
17. (D)
- | | | |
|----|----|----|
| 2 | 7 | 4 |
| 5 | 2 | 3 |
| 1 | 3 | 6 |
| ↓ | ↓ | ↓ |
| 10 | 42 | 72 |

18. (C) $1 \ 2 \ 3$
 $2 \ 3 \ 4$
 $6 \ 10 \ 14$
 $\times 2 \ \times 2 \ \times 2$

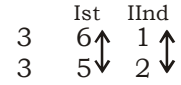
19. (A) $\begin{bmatrix} 2 & 3 & 1 \\ 1 & 2 & -1 \\ 3 & 4 & ? \end{bmatrix} \rightarrow \begin{matrix} 2^2-3=1 \\ 1^2-2=-1 \\ 3^2-4=5 \end{matrix}$

20. (D) H is missing in the given word.

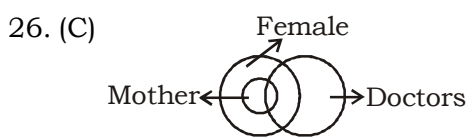
21. (D)



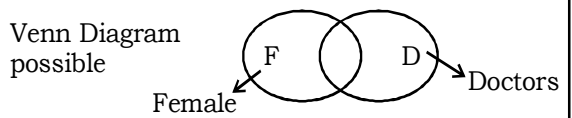
Move clockwise from common number, then write Ist & IInd step in both situation



Ist opp. to Ist
 IInd opp. to II



27. (C) Here in statments → Some ladies are doctors.



But in option (C) All doctors are female which is wrong.

28. (A)
29. (A)
30. (C) mbb/maa/mbb/maa/mbb
31. (B) C O N S T A B L E = 91
 $3+15+14+19+20+1+2+12+5 = 91$

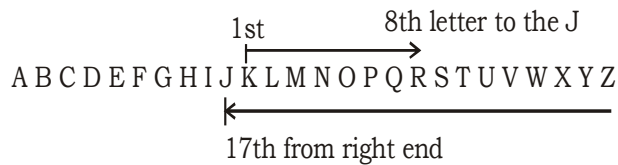
S T A B L E = 59
 $19+20+1+2+12+5 = 59$

32. (C) Word → B O D Y
 $\begin{matrix} \downarrow -1 & \downarrow +1 & \downarrow -1 & \downarrow +1 \\ \text{Code} \rightarrow & \text{A} & \text{P} & \text{C} & \text{Z} \end{matrix}$

Word → D E L H I
 $\begin{matrix} -1 & +1 & -1 & +1 & -1 \end{matrix}$

Code → **C F K I H**

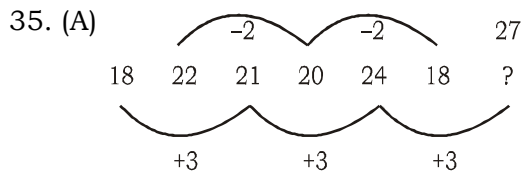
33. (A) $17 - 8 = 9$ th letter from the right.



34. (D)

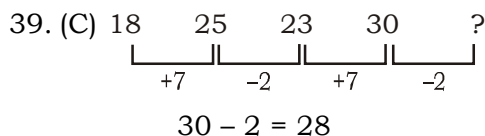
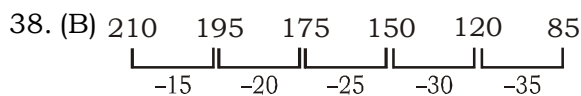
1	2	8	33	148	?
$\times 1 + 1$	$\times 2 + 4$	$\times 3 + 9$	$\times 4 + 16$	$\times 5 + 25$	
$\times 1 + (1)^2$	$\times 2 + (2)^2$	$\times 3 + (3)^2$	$\times 4 + (4)^2$	$\times 5 + (5)^2$	

$$\begin{array}{r} 148 \times 5 = 740 \\ + 25 \\ \hline 765 \end{array}$$



36. (*) Read CHIMRW as CHMRW
 in this series the sequence is +1 -1
 +1 -1 +1
 Ans; E F O P Y

37. (D) $h\ g\ f\ \quad k\ j\ i\ \quad n\ m\ l$
 $\begin{matrix} \rightarrow & \rightarrow & & \rightarrow & \rightarrow & & \rightarrow & \rightarrow \\ -1 & -1 & & -1 & -1 & & -1 & -1 \end{matrix}$



40. (D) $8 \xrightarrow{\times 4 - 3} 29 \xrightarrow{\times 4 - 3} 113 \xrightarrow{\times 4 - 3} 449 \xrightarrow{\times 4 - 3} ?$

$$\begin{array}{r} 449 \times 4 = 1796 \\ - 3 \\ \hline 1793 \end{array}$$

41. (C)

DAY → Work → Exhaust → Night → Sleep
 3 5 1 2 4

42. (D)

43. (D) R V Z I Q Y
 7 5 0 4 2 3

44. (C) Ist IInd IIIrd
 3 10 17

$$\frac{I^{st} + III^{rd}}{II^{nd}} = \frac{3 + 17}{10} = \frac{20}{10} = 2$$

12 20 28

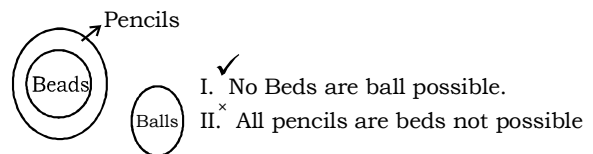
$$\frac{12 + 28}{20} = \frac{40}{20} = 2$$

45. (C) Dinesh ← Bhanu ← Prakash ← Rajesh ← Jagan
 Jagan is the shortest.

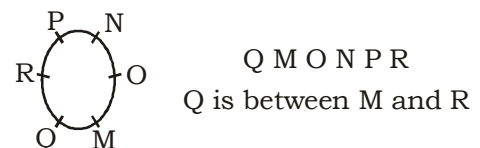
46. (D) Students who walk to school
 = Total students - (who go by car + who go by bus)
 = $100 - (10 + 40) = 100 - 50 = 50\%$
 $= \frac{50}{100} \times 2000 = 1000$

47. (B)

48. (A)



49. (D)



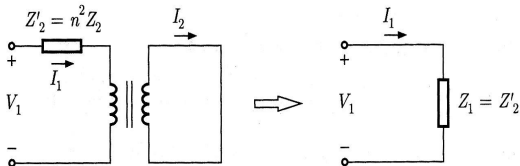
50. (B) C A T S
 30 13 65 88

182.(C) Resulting limiting error of the series

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

187. (A)

Referring impedance from primary to secondary



Where

$$Z_2 = n^2 Z_2 \quad \therefore n = 300 / 150 = 2$$

Effective impedance on primary side

$$Z_1 = Z_2 = (2)^2 5 \angle 30^\circ = 20 \angle 30^\circ \Omega$$

$$\text{Current } I_1 = \frac{V_1}{Z_1} = \frac{200}{20 \angle 30^\circ} = 10 \angle -30^\circ \text{ A}$$

189. (C)

since the voltage of the generator is directly proportional to the speed of the generator. the new terminal voltage

$$V_t = \frac{6}{5} \times 1000 = 1200 \text{ V}$$

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

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

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

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

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

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

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

200. (A) The equivalent combination of C_1 and

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

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

\therefore The net capacitance across x-y is

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