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)***
***Practice Set-9***

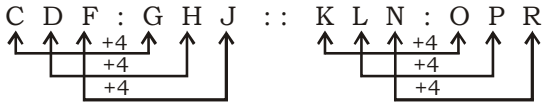
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. D | 26. D | 51. A | 76. C | 101. D | 126. D | 151. C | 176. D |
| 2. A | 27. C | 52. C | 77. D | 102. A | 127. A | 152. D | 177. B |
| 3. D | 28. D | 53. A | 78. C | 103. A | 128. A | 153. A | 178. C |
| 4. A | 29. B | 54. B | 79. A | 104. D |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

***Note :*** *If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353*

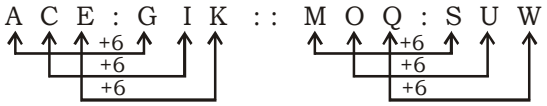
***Note :*** *If you face any problem regarding result or marks scored, please contact : 9313111777*

# SOLUTION SSC JE (Electrical) Practice Set-9

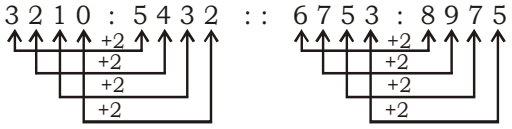
1. (D) River can be controlled by Dam. In the same way Traffic can be controlled by Signal.
2. (A) Coconut is covered by Shell. In the same way letter is coverd with an Envelope.
3. (D)



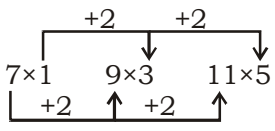

4. (A) Both are antonyms.
5. (A)



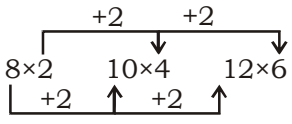

6. (A) $2 : 8 :: 4 : 64$
$2^3 = 8 \quad 4^3 = 64$
7. (A)



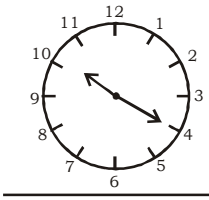

8. (B) $11 : 38 :: 13 : 44$
$11\times3+5 = 38 \quad 13\times3+5 = 44$
9. (B) IInd number is 8 times the Ist number except in 'B' option
10. (D) IInd number is 3 times the Ist number except 'D'
11. (B) All are divided by 17 except 154.
12. (D) All others are names of games.
13. (D) All are letters placed at even places but in option 'D' all letters are placed at odd places.
14. (A) (A) R S Q N (B) N O M R
18 19 17 14 14 15 13 18
+1 -2 -3 +1 -2 +5
(C) T U S X (D) E F D I
20 21 19 24 5 6 4 9
+1 -2 +5 +1 -2 +5
15. (C) As, (7, 27, 55)



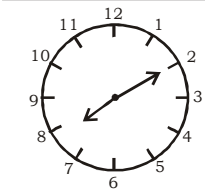

Similarly,




16. (D) D U C K L I K E E L U D E
% 3 9 * 8 $ * 5 5 8 3 % 5
17. (B) Pond
18. (A)

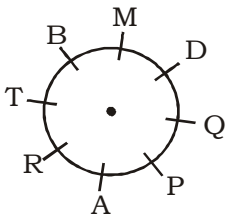



10:20




7:10

19. (A) Every train after 45 min → next train at 8:30 means train had left at 7:45. It was 15 min ago — then information was broadcast at 8:00 am.
20. (B) Sneha → Avani → Parth
Dhruv
21. (C) Shobha ← Sushma ← Rashmi ↔ Arun
22. (B) 5,8,9,7,5,9,7,3,9,2,9,1,1,5,9,6,3,9,3,9,7
Odd — 9 — odd
23. (C) Saroj → (Left 10th) Rajani ← (10th)
After changing the places:-
Rajani → (10th) 16 Saroj ← (10th)
Position of Saroj — 27th
Now, the posstion of Rajani = 10+16+1
= 27th
24. (B) O P **N** **Q** R S
25. (A)




26. (D) 2 5 11 20 **32**
+3 +6 +9 +12

27. (C) 98 (-11) 87 (-13) 74 (-15) **59** (-17) 42

28. (D) 436 (-54) 382 (-45) 337 (-36) 301 (-27) **274**

29. (B) 4E (+4) 8I (+5) 13N (+6) 19T (+7) **26A**

30. (D) Infancy → Childhood → Adolescence → Youth → Adult

31.(A)

| | | | | |
|---|---|---|---|---|
| + | 8 | 3 | 4 | (Ist + IInd) – (IIIrd) = IVth |
| | 7 | 6 | 1 | (8 + 7) – 2 = 13 |
| – | 2 | 4 | 1 | (3 + 6) – 4 = 5 |
| = | 13 | 5 | 4 | (4 + 1) – **1** = 4 |

32. (C) In the first column $\sqrt{1+2+1} = \sqrt{4} = 2$

In the second column $\sqrt{2+5+2} = \sqrt{9} = 3$

In the third column $\sqrt{3+12+1} = \sqrt{16} = 4$

in the fourth column

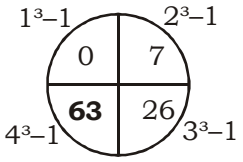
$\sqrt{2+10+x} = \sqrt{12+x} = 5$

$= \sqrt{12+x} = 5$

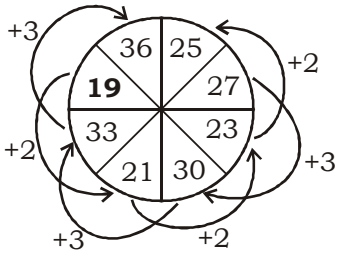
$= 12 + x = 25$

$x$ = **13**

33. (D)




34. (A)



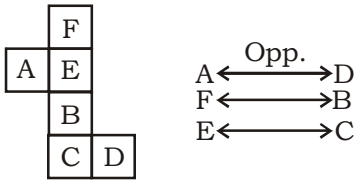

35. (D) 7 × 6 = 42 ⇒ 4 + 2 = 6 (Middle no.)
16 × 9 = 108 ⇒ 1 + 0 + 8 = 9 (Middle no.)
Similarly,
18 × 13 = 234 ⇒ 2 + 3 + 4 = 9 (Middle no.)

36. (B) Mar April May June July Aug Sep Oct
code 3 + 2 + 3 + 2 + 3 + 3 + 2 + 3
= 21 $\frac{21}{7} = 3$
Remainder = 0 → Then November starts with same day as march.

37. (A) Opposite of 4 is

| | | | | | | |
|---|---|---|---|---|---|---|
| | **1** | 2 | 3 | 4 | 5 | 6 |
| Ans | × | × | × | × | × | × |

38. (B)

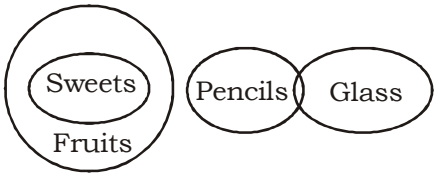



Hence only B possible.

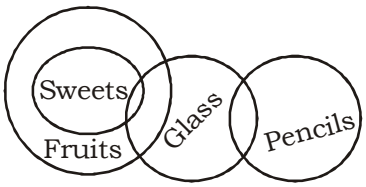
39. (C) Both Mosquito and Ant are Pests.

40. (B)

41. (D)




or,

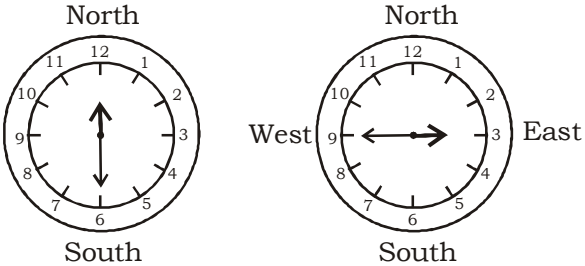



Either conclusion (I) or (III) follows.

42. (C) Given expression :
18 Q 12 P 4 R 5 S 6 = ?
As per quesion, changing the letters with mathematical operations.
18 × 12 ÷ 4 + 5 – 6
= 18 × 3 + 5 - 6
= 54 + 5 – 6
= 59 – 6
= 53

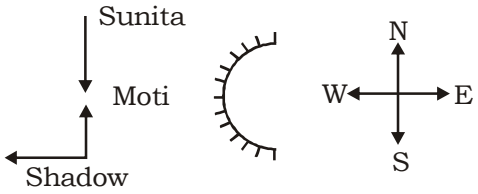
43. (D) 34 + 12 = 46; 46 ÷ 2 = 23
28 + 76 = 104; 104 ÷ 2 = 52
97 + 39 = 136; 136 ÷ 2 = 68
Similarly
37 + 73 = 110; 110 ÷ 2 = 55

44. (B)



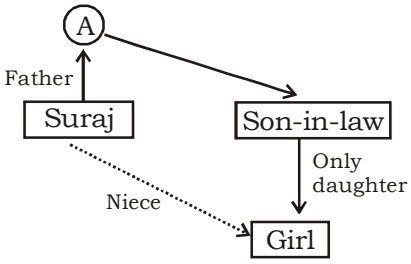

hence Minute hand will be in west direction.

45. (A) Sun is in east at the time of sunrise, so shadow will fall inwest direcion.




Hence, it is clear that Moti is facing north.

46. (A)




Hence, that girl is niece of Suraj

47. (A)

48. (D)

49. (A)

50. (D)

105. (A) $C_{eq}$ = C + C + C + C (Parallel connection)
= 4 C

106. (A) $C_{eq}$ = (32 μf + 32 μf) || 64μf

$= \frac{64 \times 64}{64 + 64} \mu f = 32 \mu f$

109. (A) $R_{eq}$ = (12 || 12 || 12) + 6

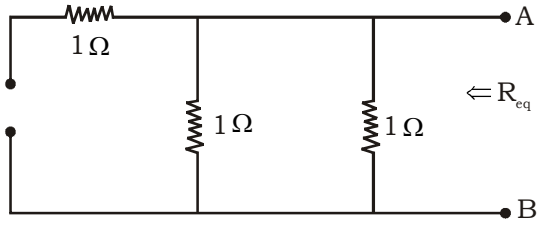
$= \frac{12}{3} + 6 = 10\Omega$

111. (A) Peak Voltage rating $= 230 \times \sqrt{2}$
= 325 volt

114. (B) $V_{rms} = \sqrt{10^2 + \frac{15^2}{2}}$

= 14.58 volt

120. (B)




$R_{eq}$ = (1 || 1) $= \frac{1}{2}\Omega$

124. (A) $\frac{R_1}{R_2} = \frac{N_1^2}{N_2^2}$

$= R_1 = \frac{N_1^2}{N_2^2} \times R_2$

$= \frac{(20)^2}{(1)^2} \times 12 \Rightarrow 4800\ \Omega$