



K D Campus Pvt. Ltd

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

Answer-key & Solution

**SSC JE (Electrical)
Practice Set-16**

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

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

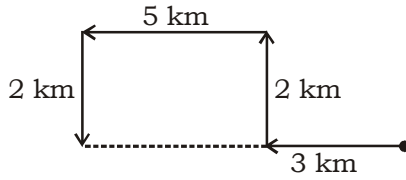
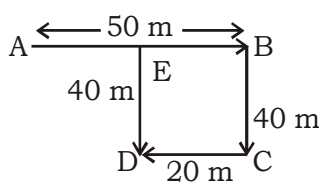
Note : If you face any problem regarding result or marks scored, please contact : 9313111777

SOLUTION SSC JE (Electrical) Practice Set-16

1. (A) E C A : K I G :: Q O M : W U S
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \\ +6 \quad +6 \quad +6 \\ \uparrow \quad \uparrow \quad \uparrow \\ +6 \quad +6 \quad +6 \\ \uparrow \quad \uparrow \quad \uparrow \\ +6 \quad +6 \quad +6 \end{array}$
2. (D) A B N O : C D P Q :: E F R S : G H T U
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +2 \quad +2 \quad +2 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +2 \quad +2 \quad +2 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +2 \quad +2 \quad +2 \end{array}$
3. (A) 4. (B) 5. (B)
6. (A) 3 2 4 : C B D :: 4 5 6 : D E F
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \\ \text{Position} \quad \uparrow \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \\ \text{Position} \quad \uparrow \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \\ \text{Position} \quad \uparrow \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \\ \text{Position} \quad \uparrow \quad \uparrow \end{array}$
7. (D) 9 : 80 :: 100 : 9999
 $\begin{array}{c} \uparrow \quad \uparrow \\ 9^2 - 1 \quad \uparrow \quad \uparrow \\ 100^2 - 1 \quad \uparrow \quad \uparrow \end{array}$
8. (A) 56 : 29 :: 38 : 20
 $\begin{array}{c} \uparrow \quad \uparrow \\ \div 2 + 1 \quad \uparrow \quad \uparrow \\ \div 2 + 1 \quad \uparrow \quad \uparrow \end{array}$
9. (A) Except option (A) all are perfect square
10. (C) (A) 8 — 64 (B) 12 — 144
 $\begin{array}{c} \uparrow \quad \uparrow \\ \text{Square} \quad \uparrow \quad \uparrow \\ \text{Square} \quad \uparrow \quad \uparrow \end{array}$
- (C) 17 — 279 (D) 13 — 169
 $\begin{array}{c} \uparrow \quad \uparrow \\ \text{Not Square} \quad \uparrow \quad \uparrow \\ \text{Square} \quad \uparrow \quad \uparrow \end{array}$
11. (B) All are types of clothes
12. (C)
13. (B) (A) K M N (B) G H I
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +1 \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \\ +1 \quad +1 \quad \uparrow \end{array}$
- (C) D F G (D) O Q R
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +1 \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +1 \quad \uparrow \end{array}$
14. (A) (A) B D C B (B) C D E C
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ -1 \quad \uparrow \quad \uparrow \\ \text{Same} \quad \uparrow \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ -1 \quad \uparrow \quad \uparrow \\ \text{Same} \quad \uparrow \quad \uparrow \end{array}$
- (C) G H I G (D) P Q R P
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +1 \quad \uparrow \quad \uparrow \\ \text{Same} \quad \uparrow \quad \uparrow \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +1 \quad \uparrow \quad \uparrow \\ \text{Same} \quad \uparrow \quad \uparrow \end{array}$
15. (D) (A) 589 \Rightarrow 5 + 8 + 9 = 22
 (B) 886 \Rightarrow 8 + 8 + 6 = 22
 (C) 697 \Rightarrow 6 + 9 + 7 = 22
 (D) 398 \Rightarrow 3 + 9 + 8 = 20
16. (D)

Package	Palace	Passport	Patience	Picture
3	5	1	4	2
17. (C) 1, 4, 7 ; 2, 3, 6 ; 5, 8, 9
18. (A)

Root	Stem	Leaf	Bud	Flower
4	1	2	5	3
19. (A)

20. (B) R U X A D G
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +3 \quad +3 \quad +3 \quad +3 \quad +3 \end{array}$
21. (B) A F K E J O I N S M R W
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \quad +4 \end{array}$
22. (C) 2 14 38 86 182 374
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +12 \quad +24 \quad +48 \quad +96 \quad 192 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ \times 2 \quad \uparrow \quad \times 2 \quad \uparrow \quad \times 2 \quad \uparrow \quad \times 2 \quad \uparrow \end{array}$
23. (A)
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +1 \quad +1 \quad +1 \quad +1 \\ \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \\ 3 \quad 4 \quad 12 \quad 13 \quad 39 \quad 40 \quad 120 \quad 121 \quad 363 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ 4 \times 3 \quad \uparrow \quad 13 \times 3 \quad \uparrow \quad 40 \times 3 \quad \uparrow \quad 121 \times 3 \quad \uparrow \end{array}$
24. (B) p q / r r p q / r r p q / r r
25. (C)

26. (B)

 Required distance AE
 AB - EB (where EB = DC)
 = 50 m - 20 m = 30 m
27. (B)
 Middle
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ C \quad D \quad A \quad B \quad E \end{array}$
28. (D)
 11
 $\begin{array}{c} \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ 5 \quad 10 \quad 19 \quad 29 \quad 41 \quad 55 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +6 \quad +8 \quad +10 \quad +12 \quad +14 \\ \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \\ +2 \quad +2 \quad +2 \quad +2 \end{array}$
29. (C)

Present age	Their age 8 years later
Son x	x + 8
Mr. Rao 12x	12x + 8

 Now $12x + 8 = 4(x + 8)$
 $8x = 24$



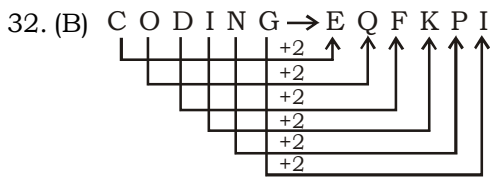
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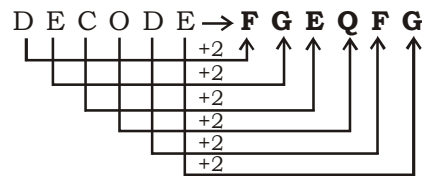
$x = 3$ years
present age of Mr. Rao
 $= 12x = 12 \times 3 = 36$ years

30. (C) Mohan's rank from bottom
 $20 - 13 + 1 = 8$

31. (B) Required average age
$$= \frac{40 \times 8 - 55 + 39}{8} = \frac{304}{8} = 38$$
 years
 $= 38$ years



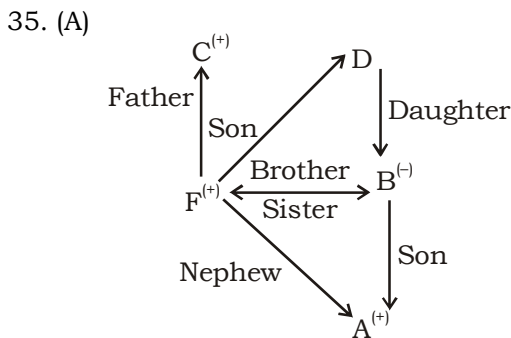
Similarly,



33. (A) T W E N T Y and E L E V E N
 $\begin{matrix} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ 8 & 6 & 3 & 9 & 8 & 5 & 3 & 2 & 3 & 0 & 3 & 9 \end{matrix}$
then,

$\begin{matrix} T & W & E & L & V & E \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ 8 & 6 & 3 & 2 & 0 & 3 \end{matrix}$

34. (B) Sunita
Rashmi
Shyam
Radha
Geeta



A is the Son of B and B is the Sister of F.
So A will be Nephew of F.

36. (D) NEST
37. (D) REFER
38. (B) 39. (C) 40. (D)
41. (B) $(4 \times 7) + (12 \div 3) = 32$
 $(5 \times 8) + (11 \div 1) = 51$
Similarly,
 $(9 \times 3) + (6 \div 2) = 30$

42. (A) $7 \times 9 \times 3 = 189$
 $8 \times 4 \times 9 = 288$

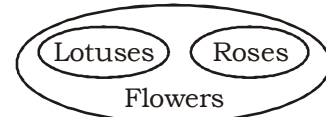
Similarly,
 $9 \times 5 \times x = 90$
 $45x = 90$
 $x = 90 \div 45 = 2$

43. (D) $30 \div 10 \times 12 - 8 + 12 = 40$
 $3 \times 12 - 8 + 12 = 40$
 $36 - 8 + 12 = 40$
 $36 + 12 - 8 = 40$
 $48 - 8 = 40$
 $40 = 40$

44. (A)
45. (B) $133 = 70 \Rightarrow 1 + 3 + 3 = 7 \times 10 = 70$
 $426 = 120 \Rightarrow 4 + 2 + 6 = 12 \times 10 = 120$

Similarly,
 $565 = 5 + 6 + 5 = 16 \times 10 = 160$

46. (C) 47. (C) 48. (A)
49. (C)
50. (D)



141. (C) In general given value is RMS value
152. (A) Use superposition theorem,
 I_1 (due to 5 V source) = -0.4 A, I_2 (due to 1A source) = 0.4 A
 $\therefore I = I_1 + I_2 = 0$
153. (A) In electrostatic instruments there is no magnetic field that is why there is no iron loss.
156. (D) In moving coil in a dynamometer wattmeter is connected across the load because we have to measure the voltage drop across the load.
191. (C) As we know that
 $kW = kVA \times \cos \phi$