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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 -(52)


Date 18 / 06 / 2016

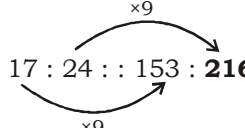
1. C	26. C	51. C	76. B	101. B	126. B	151. D	176. B
2. B	27. D	52. D	77. C	102. C	127. B	152. C	177. B
3. A	28. B	53. B	78. B	103. B	128. D	153. A	178. A
4. D	29. A	54. A	79. C	104. B	129. D	154. A	179. A
5. C	30. D	55. D	80. A	105. A	130. B	155. A	180. D
6. C	31. B	56. A	81. D	106. B	131. B	156. A	181.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

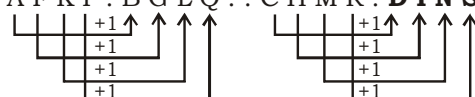
Note : *If your opinion differ regarding any answer, please message the mock test and Question number to ~~8375805483~~*

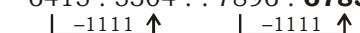
Note : *If you face any problem regarding result or marks scored, please contact : 9313111777*

SOLUTION SSC JE (ELECTRICAL) MOCK TEST no. 52

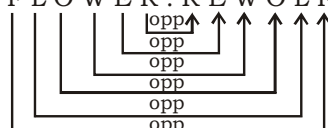
1. (C) 23 : 13 :: 54 : **44**


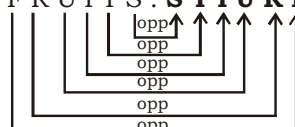
2. (B) 17 : 24 :: 153 : **216**


3. (A) AFKP : BGLQ :: CHMR : **DINS**


4. (D) 6415 : 5304 :: 7896 : **6785**



5. (C) Consumer

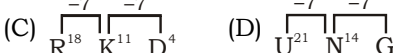
6. (C) FLOWER : REWOLF ::


FRUITS : **STIURF**


7. (B) All others are young ones of animals

8. (D) All others not divisible by 7.

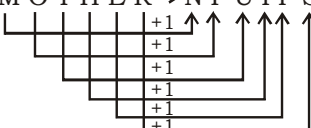
9. (A) $M^3 T^{20} F^5$ (B) $S^{19} L^{12} E^5$


(C) $R^{18} K^{11} D^4$ (D) $U^{21} N^{14} G^7$


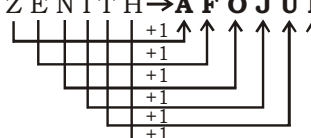
10. (C) All others are related to unhappiness

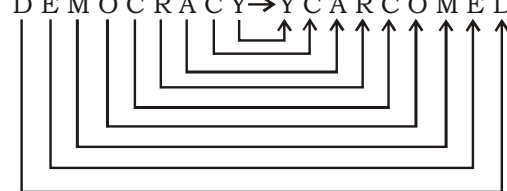
11. (B) All others are proper noun.

12. (D) Except option (D) all are hill stations.

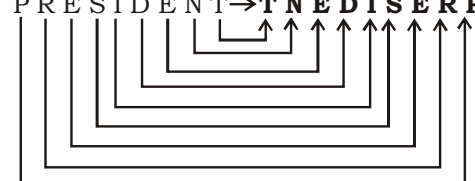
13. (C) MOTHER → NPUIFS


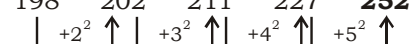
Similarly,

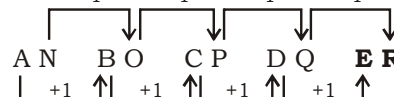
ZENITH → **AFOJUI**


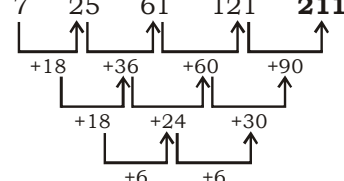
14. (C) DEMOCRACY → YCARCOMED


Similarly,

PRESIDENT → **TNEDISERP**


16. (B) 198 202 211 227 **252**


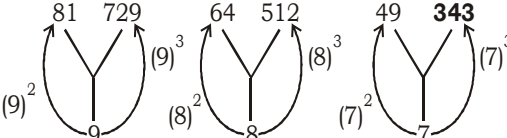
17. (B) AN BO CP DQ **ER**


18. (B) 7 25 61 121 **211**


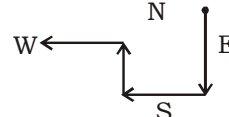
19. (B) $\frac{\text{Bandage}}{3}, \frac{\text{Bangalore}}{5}, \frac{\text{Bangle}}{2}, \frac{\text{Banquet}}{1}, \frac{\text{Bantam}}{4}$

20. (B) $30 \div 2 + 3 \times 6 - 5$
 $15 + 3 \times 6 - 5$
 $15 + 18 - 5$
 $33 - 5 = \mathbf{28}$

21. (D) CHANCE

22. (C) $81 \rightarrow 729 \rightarrow 343$


23. (C) 1. (A) Monarchy 2. (B) Monastic
 3. (C) Monetary 4. (D) Moneyed

24. (B) W ← N → E


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25. (C) Sue (Re) (Nik) → (She) (is) brave ... (i)
 Pi (Sor) (Re) (Nik) → (She) (is) always smiling ... (ii)
 (Sor) (Re) Zhi → (is) always cheerful ... (iii)

According to equation ... (ii)
 'Smiling' = Pi

26. (C) **a c d b d a c b c d a b a c d b d a**

28. (B) Friday

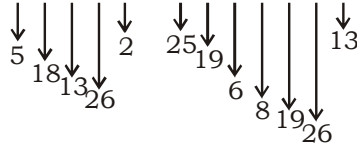
29. (A) $(4)^2 - 2 = 2$ (the power is ignored)

$$(3)^2 - 3 = 0$$

$$(9)^2 - 1 = 8$$

$$(8)^2 - 4 = 4$$

30. (D) V I N A Y - B H U S H A N = **180**



31. (B) D I C K I N S O N
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 3 5 7 9 5 0 2 1 0

and D I P P
 ↓ ↓ ↓ ↓
 3 5 6 6

then, P I C N I C
 ↓ ↓ ↓ ↓ ↓ ↓
6 5 7 0 5 7

32. (B) A E C
 ↓ ↓ ↓
 ↑ ↑ ↑
 D B F

33. (C) Yellow

34. (D) $45 \div 9 \times 3 + 15 - 2$

$$5 \times 3 + 15 - 2$$

$$15 + 15 - 2$$

$$30 - 2 = \mathbf{28}$$

37. (C) $38 + 15 = 66$

$$\Rightarrow (3 + 8) \times (1 + 5) = 66$$

$$29 + 36 = 99$$

$$\Rightarrow (2 + 9) \times (3 + 6) = 99$$

Similarly,

$$82 + 44$$

$$\Rightarrow (8 + 2) \times (4 + 4) = \mathbf{80}$$

38. (A) R A T I O N A L → R T A N I O L A

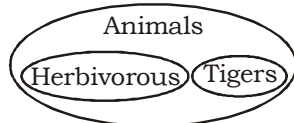
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 1 2 3 4 5 6 7 8 1 3 2 6 4 5 8 7

Similarly,

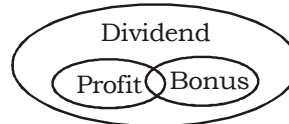
T R I B A L → T I R L B A

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 1 2 3 4 5 6 1 3 2 6 4 5

42. (A)



43. (B)



Bonus is also a part of dividend

50. (D) R = 97, 89, 75, **68**, 56

$$O = 44, \mathbf{33}, 21, 12, 00$$

$$S = 98, 86, 77, \mathbf{65}, 59$$

$$T = 99, 85, 76, 67, \mathbf{58}$$

114. (A) $V = E + I_a R_a$

$$120 = 110 + I_a \times 0.5$$

$$\therefore I_a = 20$$

122. (A) $N_s = \frac{120f}{P} = \frac{120 \times 50}{60}$

$$N_s = 1000 \text{ rpm}$$

$$S = \frac{N_s - N_r}{N_s} = \frac{100 - 950}{1000} = 0.05$$

$$\text{Rotor } i / P = \frac{P_{cu}}{s} = \frac{5}{0.05} = 100 \text{ kW}$$

125. (A) $E = K_n \phi N$

$$E \propto N$$

If speed is halved then generated EMF also halved.

129. (D) If shunt field resistance is more than the critical field resistance there will be no voltage buildup beyond residual voltage but voltage would not be zero.

142. (D) Methods of reducing corona loss

1. Large dia conductors
2. Hollow conductors
3. Bundled conductors

154. (A) Creeping is due to overcompensation provided to the running friction

155. (A) The expansion (deflection) is proportional to the heating effect of the current and hence to the square of the rms value of the current. Therefore the meter may be calibrated to read the rms value of the current.

163. (C) Refer Piezoelectric type accelerometer.

164. (C) Moving iron type ammeter reads average value

$$\therefore \text{Reading} = \sqrt{10^2 + \frac{10^2}{2}}$$

$$\text{Reading} = \sqrt{150} \text{ A}$$

165.(A) The makers specify the maximum value as $100\mu\text{A}$. This means that the current drawn from the cell should be less than $100\mu\text{A}$ and this current should flow momentarily.

166.(C) Sensitivity $(I) = \frac{1}{5\text{mA}} = 200\text{W/V}$

174.(C) For JEET $I_D = I_{DSS} \left(1 - \frac{V_{GS}}{V_P}\right)^2$

$$\Rightarrow 0 = \left(1 - \frac{V_{GS}}{V_P}\right)^2$$

$$\Rightarrow V_{GS} = V_P$$

$$\therefore V_{GS} = 5 \text{ Volts}$$

177.(B) $I_{CEO} = (1 + \beta)I_{CO}$

$$\text{and } \beta = \frac{\alpha}{1 - \alpha} = \frac{0.995}{1 - 0.995} = 199$$

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

$$= 100\mu\text{A}$$