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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 -(55)
Date 09 / 07/ 2016

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

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. 55

1.(C) Andhra Pradesh is called 'Rice bowl of India'. Similarly, Mumbai is called 'Manchester of India'.

2.(D) Calcium is found in milk. Similarly, protein is found is pules.

3.(A) 36 : 144 : : 576 : 2304
$(6)^2$ ×2 $(12)^2$; $(24)^2$ ×2 $(48)^2$

4.(D) 55 : 26 :: 13 :: 4
(5 ×5+1) ; (1 ×3+1)

5.(C)

6.(C) The addition of the digits 11529 = 1 + 1 + 5 + 2 + 9 = 18, 72135 = 7 + 2 + 1 + 3 + 5 =18 and 152943 = 1 + 5 + 2 + 9 + 4 + 3 = 24.
Similarly, the addition of the digits 213549 will be = 2 + 1 + 3 + 5 + 4 + 9 = 24

7.(D) 8 : 28 : : 27 : 65
$(2)^3$ $(3^3 + 1)$ $(3)^3$ $(4^3 + 1)$

8.(B)

9.(C)

10.(D) B D A C : F H E G :: N P M O : R T Q S
(+1, +1, +1 in each group)

11.(B)

12.(D)

13.(B) Remaining are related to circle

14.(C) (A) Z X V T (-2, -2, -2) (B) U S Q O (-2, -2, -2)
(C) D E F G (+1, +1, +1) (D) P N L J (-2, -2, -2)

15.(A) (A) A F C G (+5, -3, +4) (B) D I G L (+5, -2, +5)
(C) I N L Q (+5, -2, +5) (D) O T R W (+5, -2, +5)

16.(C) (A) 6 : 34 (× 5 + 4) (B) 12 : 64 (× 5 + 4)
(C) 20 : 96 (× 5 - 4) (D) 09 : 49 (× 5 + 4)

17.(A) Others produce something new, but barber does not make any new thing.

18.(B) (A) 62 - 37 = 25
(B) 74 - 40 = 24
(C) 85 - 60 = 25
(D) 103 - 78 =25

19.(B)

20.(C) All others have '=' sign too.

21.(C) A G M B H N C I O D J P
(+1 in each position)

22.(B) 2 7 27 107 427
(×4-1) (×4-1) (×4-1) (×4-1)

23.(D) 5 7 11 19 35 67
+2 +4 +8 +16 +32
×2 ×2 ×2 ×2

24.(B) 242 393 4164 5255
(+1, +1, +1)
and the middle digit is the product of side digits.

25.(A) 26.(A) 27.(C)

28.(A) 5293723924137265412463287

29.(D) (A) P R T V X Z (+2 +2 +2 +2 +2)
(B) Z B D F H J (+2 +2 +2 +2 +2)
(C) C E G I K M (+2 +2 +2 +2 +2)
(D) M O R T V X (+2 +3 +2 +2 +2)

30. (A)

Paragraph	Paramedic	Paramount	Parasite	Parasitic
5	2	1	3	4

31. (A)

Story	Script	Dialogue	Shooting
3	5	1	2

Editing	Preview	Screening
4	6	7

32.(A) According to Ist statment,

$\Rightarrow$ According to Age,

Fatima > Banu> Anehu ..... (i)

Again,

According to 2nd statement,

$$\text{caroline} = \frac{\text{Anehu}}{2} = 2\times \text{Daina}$$

$\Rightarrow$ According to Age,

Anehu > Caroline > Daina.....(ii)

So, From (i) and (ii)

we get,

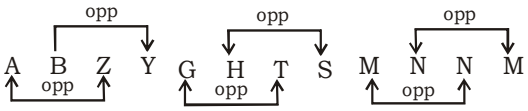
The oldest person is Fatima & the youngest person is Daina

33.(D) ef/ee f f/eee f ff/e ee e/f f ff

34.(B) c a/cca a/ccca a a/ cccc/ a aaa

35.(D) We do not know the nature of the year whether it is leap year or not. So we can not get the answer.

36.(C)



37.(A) Total strength of the class = (31+ 11-1) + 3 (Not appeared) + 1 (failed)

= 31 + 10 + 3 +1 = 45

38. (B)

P O R R I D G E$\rightarrow$E G P O D I R R

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑧ ⑦ ① ② ⑥ ⑤ ④ ③

Similarly,

P R E S T I G E$\rightarrow$E G P R I T S E

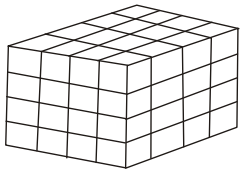
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑧ ⑦ ① ② ⑥ ⑤ ④ ③

39.(A) In 1 hour distance = 25 + 35 = 60 kms

$$\text{in 15 minutes distance} = \frac{60}{4} = 15 \text{ kms}$$

40.(C)

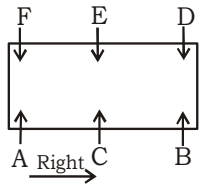
41.(C)



Total number of cubes = $x^3 = 4^3 = 64$

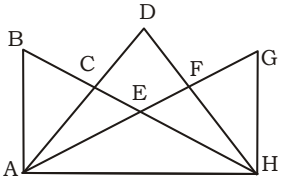
42.(A) 43.(A)

44.(D)



45.(C) 46.(D)

47.(C)



There are 14 traingles in the above diagram- ABC, ACE, AEH, EFH , FGH, ABE, ACH, EGH, ADF, CDH, AFH, ABH, ADH and AGH.

48.(B)

50.(C) The numerical groups of the given word-

H- 03, 10, 22, **34**, 41

E- 00, **12**, 24, 31, 43

N- 57, 69, 76, **88**, 95

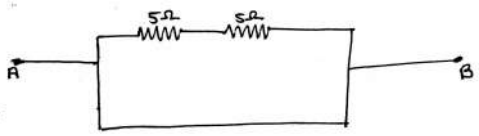
106. (B) $R_1 = (200 \pm 10)\Omega$

$R_2 = (100 \pm 5)\Omega$

$R_3 = (50 \pm 2.5)\Omega$

$$\%\text{ error} = \pm\frac{17.5}{350}\times 10 = \pm\frac{1750}{350} = \pm 5\%$$

108. (C)



R_{AB} = Zero ohm due to short wire

OR

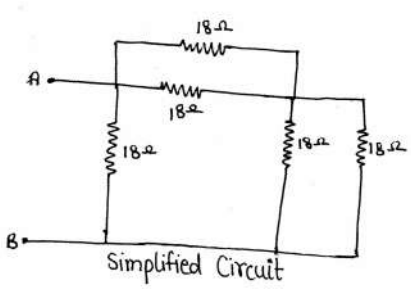
$$R_{AB} = (5+5)||0 = \frac{10\times 0}{10+0} = 0\Omega$$

111. (D) Equivalent resistance = $(4||4||4||4) + (4||6) + 1.8$

$= 1 + 2.4 + 1.8 = 5.2\Omega$

113. (D) Current flowing between point B and C will be zero due to balance bridge.

121. (D) On doing star to delta conversion across 6Ω T-network then circuit becomes.



R_{AB} = [(18|| 18) + (18 || 18)] ||18 = 9Ω

123. (D) $i_4 = i_3 + i_2 - i_1$
= 4 + 2 – 1
= 5 amp

142. (C) $N=\frac{120f}{P} \Rightarrow f = \frac{NP}{120}$

$f=\frac{1500\times4}{120}$

= 50 Hz

157. (D) $Z_4 = \frac{Z_2 Z_3}{Z_1}$

$=\frac{400\angle -90^0 \times 300\angle 0^0}{200\angle 60^0}$

$=60\angle -150^0$

188. (C) Common base gain (α) = 0.99

So, common emitter gain (β) = $\frac{\alpha}{1-\alpha}$

$=\frac{0.99}{0.01}=99$

196. (C) The ripple frequency in the output of a full-wave rectifier is double to the line frequency.

Correction Mock Test 54

116. (D)

In KVL

$3 - 3I - 3I = 0 \Rightarrow I = \frac{1}{2}A$

$V_{OC} = \frac{1}{2}\times 3 = \frac{3}{2} Volt$

R_{eq} = (1+2)|| 3 $= \frac{3}{2} ohm$