



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-10**

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 9560620353

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

SOLUTION SSC JE (Electrical) Practice Set-10

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 in pulses.

3.(A) $36 : 144 :: 576 : 2304$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $(6)^2 \quad (12)^2 \quad (24)^2 \quad (48)^2$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $\times 2 \quad \times 2 \quad \times 2 \quad \times 2$

4.(D) $55 : 26 :: 13 : 4$
 $\uparrow \quad \uparrow$
 $(5 \times 5 + 1) \quad (1 \times 3 + 1)$

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) $8 : 28 :: 27 : 65$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $(2)^3 \quad (3^3 + 1) \quad (3)^3 \quad (4^3 + 1)$

8.(B)

9.(C)

10.(D) $B D A C : F H E G :: N P M O : R T Q S$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $+1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1$

11.(B)

12.(D)

13.(B) Remaining are related to circle

14.(C) (A) $Z X V T$ $\uparrow \downarrow \uparrow \downarrow$ $-2 \quad -2 \quad -2 \quad -2$ (B) $U S O O$ $\uparrow \downarrow \uparrow \downarrow$ $-2 \quad -2 \quad -2 \quad -2$

(C) $D E F G$ $\uparrow \downarrow \uparrow \downarrow$ $+1 \quad +1 \quad +1 \quad +1$ (D) $P N L J$ $\uparrow \downarrow \uparrow \downarrow$ $-2 \quad -2 \quad -2 \quad -2$

15.(A) (A) $A F C G$ $\uparrow \downarrow \uparrow \downarrow$ $+5 \quad -3 \quad +4 \quad +5$ (B) $D I G L$ $\uparrow \downarrow \uparrow \downarrow$ $+5 \quad -2 \quad +5 \quad +5$

(C) $I N L O$ $\uparrow \downarrow \uparrow \downarrow$ $+5 \quad -2 \quad +5 \quad +5$ (D) $O T R W$ $\uparrow \downarrow \uparrow \downarrow$ $+5 \quad -2 \quad +5 \quad +5$

16.(C) (A) $6 : 34$ $\uparrow \downarrow$ $\times 5 + 4$ (B) $12 : 64$ $\uparrow \downarrow$ $\times 5 + 4$

(C) $20 : 96$ $\uparrow \downarrow$ $\times 5 - 4$ (D) $09 : 49$ $\uparrow \downarrow$ $\times 5 + 4$

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) $A G M \quad B H N \quad C I O \quad D J P$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $+1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1 \quad +1$

22.(B) $2 \quad 7 \quad 27 \quad 107 \quad 427$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $(\times 4 - 1) \quad (\times 4 - 1) \quad (\times 4 - 1) \quad (\times 4 - 1)$

23.(D) $5 \quad 7 \quad 11 \quad 19 \quad 35 \quad 67$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $+2 \quad +4 \quad +8 \quad +16 \quad +32$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $\times 2 \quad \times 2 \quad \times 2 \quad \times 2$

24.(B) $242 \quad 393 \quad 4164 \quad 5255$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $+1 \quad +1 \quad +1$

and the middle digit is the product of side digits.

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

28.(A) 5293723924137265412463287

29.(D)(A) $P \quad R \quad T \quad V \quad X \quad Z$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $+2 \quad +2 \quad +2 \quad +2 \quad +2$

(B) $Z \quad B \quad D \quad F \quad H \quad J$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $+2 \quad +2 \quad +2 \quad +2 \quad +2$

(C) $C \quad E \quad G \quad I \quad K \quad M$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $+2 \quad +2 \quad +2 \quad +2 \quad +2$

(D) $M \quad O \quad R \quad T \quad V \quad X$
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $+2 \quad +3 \quad +2 \quad +2 \quad +2$

30.(A) Paragraph Paramedic Paramount
 $5 \quad 2 \quad 1$
Parasite Parasitic
 $3 \quad 4$

31.(A) Story Script Dialogue Shooting
 $3 \quad 5 \quad 1 \quad 2$

Editing	Preview	Screening
4	6	7

32.(A) According to 1st 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)

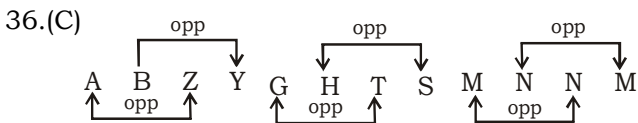
we get,

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/c ca cca a/c cca 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.



37.(A) Total strength of the class = $(31 + 11 - 1) + 3$ (Not appeared) + 1 (failed)
 $= 31 + 10 + 3 + 1 = 45$

3 8 . (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,

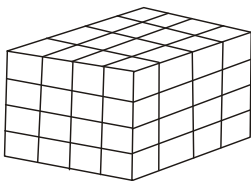
P R E S T I G E \rightarrow E G P R I T S E
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑧ ⑦ ① ② ⑥ ⑤ ④ ③

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

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

40.(C)

41.(C)

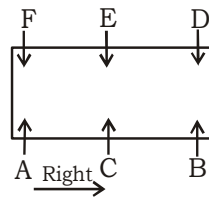


Total number of cubes = $x^3 = 4^3 = 64$

42.(A)

43.(A)

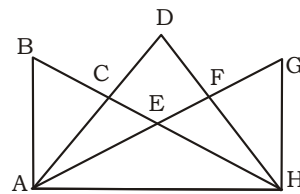
44.(D)



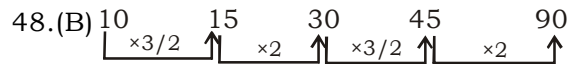
45.(C)

46.(D)

47.(C)



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



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

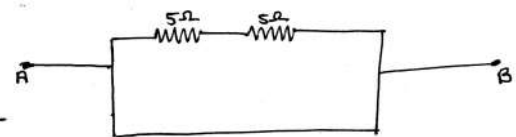
106. (B) $R_1 = (200 \pm 10) \Omega$

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

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

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

108. (C)



$R_{AB} =$ Zero ohm due to short wire

OR

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

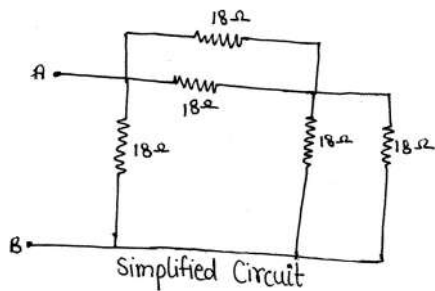
111. (D) Equivalent resistance =

$$(4 \parallel 4 \parallel 4 \parallel 4) + (4 \parallel 6) + 1.8$$

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

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.



$$R_{AB} = [(18 \parallel 18) + (18 \parallel 18)] \parallel 18 = 9\Omega$$

123. (D) $i_4 = i_3 + i_2 - i_1$
 $= 4 + 2 - 1$
 $= 5 \text{ amp}$

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

$$f = \frac{1500 \times 4}{120}$$

$$= 50 \text{ Hz}$$

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

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

$$= 60 \angle -150^\circ$$

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.