



KD Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

Answer-key & Solution

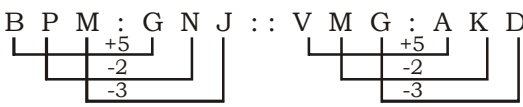
SSC JE (Civil)
MOCK -(96)
Date 6.5.2017


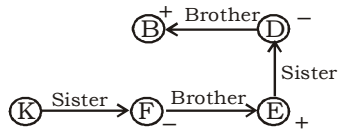
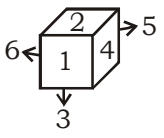
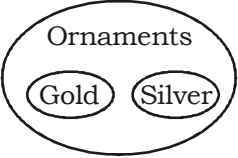
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|-------|-------|-------|--------|--------|--------|--------|--------|
| 1. C | 26. * | 51. D | 76. A | 101. D | 126. A | 151. A | 176. D |
| 2. D | 27. B | 52. C | 77. C | 102. C | 127. A | 152. A | 177. D |
| 3. C | 28. A | 53. D | 78. A | 103. D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

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 (Civil) MOCK TEST no. 96

1. (C) Forecast is related to future. In the same way regret is related to Past.
2. (D) Breeze is related to cyclone. In the same way Drizzle is related to Downpour
3. (C) $B P M : G N J :: V M G : A K D$

4. (D) $6 : 222 :: 7 : 350$
 $6^3 + 6 = 222$ $7^3 + 7 = 350$
5. (D) Much is related to many. In the same way Measure is related to count.
6. (A) All have an Indian National Park except sangpo.
7. (D)
- | | | | | | | | |
|---------|---|--------|---|--------|---|--------|---|
| K | P | B | Y | D | W | H | U |
| 11 + 16 | | 2 + 25 | | 4 + 23 | | 8 + 21 | |
| 27 | | 27 | | 27 | | 29 | |
- All are opposite letters except option 'D'
8. (A) All are multiple of 19 except 306
9. (D) All option solve in the following way-
 (Ist number) $\times 3 + 5 =$ IInd number
 Except 10 : 54
 $10 \times 5 + 4 = 54$
10. (B) Mustard is an oil seed.
 (11-15):
- | | | |
|---------|--------|-------------------|
| SOUND | ikmp | A \rightarrow v |
| ADDRESS | bloppv | C \rightarrow j |
| CRUX | cjmv | D \rightarrow o |
| NET | abi | N \rightarrow i |
| CRONY | ijktv | S \rightarrow p |
| CROWDY | jkgotv | |
11. (C) With the help of common letters, we find the code.
16. (A) $7 \xrightarrow{\times 4-11} 17 \xrightarrow{\times 3-11} 40 \xrightarrow{\times 4-11} 149 \xrightarrow{\times 3-11} 436$
17. (D) $4 \quad 8 \quad 28 \quad 80 \quad 244 \quad 728$
 $3^1+1 \quad 3^2-1 \quad 3^3+1 \quad 3^4-1 \quad 3^5+1 \quad 3^6-1$
18. (B) 1000 1100 990 **1089** 980.1
 $\left[\begin{array}{c} +10\% \text{ of } 1000 \\ -10\% \text{ of } 1100 \\ +10\% \text{ of } 990 \\ -10\% \text{ of } 1089 \end{array} \right]$
19. (D) A D A C B B D C C
 1 3 1 2 4 2
 a b c d **d c a a**
 B \rightarrow 2 \rightarrow d
 C \rightarrow 1 \rightarrow a
 A \rightarrow 3

- D \rightarrow 4 \rightarrow c
20. (A) B D C A B D A C B
 4 1 3 2 **1 2 3 4**
 a a b c c

21. (C) Son-in-law of my friend's mother = My friends husband
 Their daughter = My friend's daughter
 i.e my niece
22. (D) 
- Hence, we can't say about relationship of K to B. K is either brother or sister of B
23. (B) In this Question
 $1 \xleftrightarrow{\text{Opp.}} 5$
 $2 \xleftrightarrow{\text{Opp.}} 3$
 Therefore
 $4 \xleftrightarrow{\text{Opp.}} 6$
- 
- But opposite face will never be adjacent to each other
 \therefore Option 'B' is possible.
24. (A) 
25. (A)
- | | | |
|-----|----|-----------|
| 17 | 24 | 13 |
| 14 | 6 | 16 |
| 117 | 70 | 102 |
- $(17 \times 14) \div 2 = 119$
 $119 - 2 = 117$
 $(24 \times 6) \div 2 = 72$
 $72 - 2 = 70$
- Similarly,
 $(13 \times x) \div 2 = \frac{13x}{2}$
 $\frac{13x}{2} - 2 = 102$

$$\Rightarrow \frac{13x - 4}{2} = 102$$

$$\Rightarrow x = 16$$

$$\Rightarrow 13x - 4 = 204$$

$$\Rightarrow 13x = 208$$

$$\Rightarrow x = 16$$

26. (*)

$$2 \begin{matrix} 3 \\ \textcircled{193} \\ 5 \end{matrix} 4$$

$$(3+4+5+2)^2-3$$

$$196-3=193$$

$$3 \begin{matrix} 7 \\ \textcircled{321} \\ 2 \end{matrix} 6$$

$$(7+6+2+3)^2-3$$

$$324-3=321$$

$$6 \begin{matrix} 4 \\ \textcircled{438} \\ 3 \end{matrix} 8$$

$$(4+8+3+6)^2-3$$

$$441-3=438$$

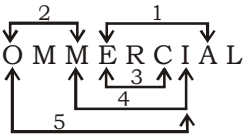
27. (B) $72 \div 6 + 3 \times 5 - 3 = 85$

$$72 - 6 \div 3 + 5 \times 3 = 85$$

$$72 - 2 + 15 = 85$$

$$85 = 85$$

28. (A) C O M M E R C I A L



Five pair of letters are possible

29. (B) For Non-leap year

| | | | | | | |
|--------|-----|-----|-------|-------|-----|------|
| Month- | Jan | Feb | March | April | May | June |
| code - | 0 | 3 | ③ | 6 | 1 | 4 |

| | | | | | | |
|--------|------|-----|------|-----|-----|-----|
| Month- | July | Aug | Sept | Oct | Nov | Dec |
| code - | 6 | 2 | 5 | 0 | ③ | 5 |

For a leap year

| | | | | | | |
|--------|-----|-----|-------|-------|-----|------|
| Month- | Jan | Feb | March | April | May | June |
| code - | 0 | 3 | ④ | 0 | 2 | 5 |

| | | | | | | |
|--------|------|-----|------|-----|-----|-----|
| Month- | July | Aug | Sept | Oct | Nov | Dec |
| code - | 0 | 3 | 6 | 1 | ④ | 6 |

The calendar of March and November will be same because the codes of both the months are same.

30. (C) 28 Nov. 1970 - 71 - 72 - 73 - 74 - 75

| | | | | | |
|------------|---|----|----|----|----|
| Excess day | 1 | +2 | +1 | +1 | +1 |
|------------|---|----|----|----|----|

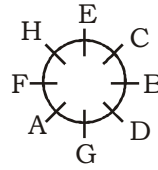
| |
|----------------------------------|
| 75 - 76 - 77 - 78 - 79 - 80 - 81 |
| +2 +1 +1 +1 +2 +1 |

Total excess days = 14

$$\frac{14}{7} = 2$$

Hence next birthday on Sunday will come in the year 1981.

(31- 32):



33. (C) Let the number of persons = number of horses = x

The number of persons walking = $\frac{x}{2}$

and number of horses walking = x

Number of legs of person = 2

and number of legs of one horses = 4

Again, $\left(\frac{x}{2} \times 2\right) + (x \times 4) = 70$

or, $x + 4x = 70$

or, $5x = 70$

$$\Rightarrow x = \frac{70}{5} = 14$$

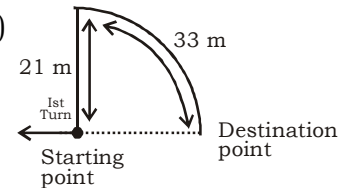
Hence, number of horses = 14

34. (D) $0 \times 1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 = '0'$

36. (B) Only II is Implicit

37. (C) neither I nor II follow.

38. (A)



$$21 + 33 = 54$$

39. (B) Both hands of a clock make an angle of 90° twice in one hour but between 2 and 4 this is possible only 3 times

So, $1 \leftrightarrow 2 \leftrightarrow 3 \leftrightarrow 4 \leftrightarrow 5$

$$2 + 3 + 2$$

$$= 7 \text{ times}$$

41. (D) No such number is there.

$$110. (D) \because K_A = (m_v)_A \times (C_v)_A$$

$$= 3.6 \times 10^{-4} \times 3.8 \times 10^{-4}$$

$$= 13.68 \times 10^{-8}$$

$$K_B = (m_v)_B \times (C_v)_B$$

$$= 1.8 \times 10^{-4} \times 1.9 \times 10^{-4}$$

$$\therefore \frac{K_A}{K_B} = \frac{13.68 \times 10^{-8}}{3.42 \times 10^{-8}} = 4$$

115. (D) Centre line dimension of outer walls

$$= 14.7\text{m} \times 9.7\text{m}$$

$$\text{thickness of wall} = 0.30\text{m}$$

$$\text{floor area} = (14.7 - 0.30)\text{m} \times (9.7 - 0.30)\text{m}$$

$$= 135.36\text{m}^2$$

118.(D) $100m^3$ of 1:2:4 concrete dry mortar = 152

$$\text{cement} = \frac{152}{7} \simeq 21m^3$$

131.(B) $n = 0.32$

$$w = 25\%$$

$$e = \frac{n}{1-n} = \frac{0.32}{1-0.32} = \frac{0.32}{0.68} = 0.47$$

132.(A) $K = 100d^2$ ($d = 0.05$ cm)

$$= 100 (0.05)^2$$

$$= 0.25 \text{ cm/sec}$$

135.(D) Density (ρ) = $\frac{7.5kg}{0.01m^3} = 750 \text{ kg/m}^3$

$$\text{specific gravity} = \frac{750}{1000} = 0.750$$

136.(C) By froude number

$$\frac{F_p}{F_M} = \left(\frac{L_p}{L_M} \right)^3$$

$$\frac{F_p}{1} = \left(\frac{100}{1} \right)^3 \quad \{F_M = 1N\}$$

$$\{L_M : L_p = 1 : 100\}$$

$$F_p = 1000000 \text{ N}$$

137.(C) $d_1 \times h_1 = d_2 \times h_2$ $\left(h = \frac{4\sigma \cos \theta}{\rho g d} \right)$

$$d_2 = \frac{d_1 \times l_1}{l_2}$$

$$= \frac{1 \times 30}{0.2}$$

$$= 150 \text{ mm}$$

$$= 15 \text{ cm}$$

155.(C) $A = \frac{F}{P}$ $\left\{ \begin{array}{l} F = 1960N \\ P = 100N / mm^2 \end{array} \right\}$

$$= \frac{1960}{100}$$

$$A = 19.6 \text{ mm}^2$$

$$\frac{\pi}{4} d^2 = 19.6$$

$$d = \frac{19.6 \times 4}{\pi} \simeq 5 \text{ mm}$$