



# KD Campus Pvt. Ltd

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

## Answer-key & Solution




SSC JE (Civil)  
MOCK -(95)  
Date 29.4.2017

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

**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

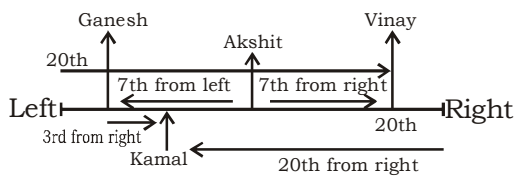
**SOLUTION SSC JE (Civil) MOCK TEST no. 95**

1. (C) 'When' is used for 'time'. In the same way 'where' is used for 'place'.
2. (B) A collection of book is called library. In the same way a collection of ship is called fleet
3. (C) U T S : E D C :: W V U : G F E  

4. (C) T M X K : U L Y J :: W Q F Z : X P G Y  

5. (B) 6 : 2 :: 8 : 3  
 $(6 \div 2) - 1 = 2$        $(8 \div 2) - 1 = 3$
6. (B) Donkey is considered fool. In the same way Fox is considered cunning.
7. (A) M K Q O : L N P R :: Y S U W : X V T Z  

8. (A) 365 : 90 :: 623 : 36  
 $3 \times 6 \times 5 = 90$        $6 \times 2 \times 3 = 36$
9. (C) 212 : 436 :: 560 : 784  
 $+224$
10. (B) 'Scissors' are used to cut 'Cloth'. In the same way 'Razor' is used to cut 'Beard'.
11. (C) All are the names of a particular group of people except 'C'.
12. (B) All have even letter except in 'B'
13. (B) (A)  $\begin{matrix} G & E & C & A \\ -2 & -2 & -2 & -2 \end{matrix}$  (B)  $\begin{matrix} V & U & S & O \\ -1 & -2 & -2 & -2 \end{matrix}$   
 (C)  $\begin{matrix} P & N & L & J \\ -2 & -2 & -2 & -2 \end{matrix}$  (D)  $\begin{matrix} T & R & P & N \\ -2 & -2 & -2 & -2 \end{matrix}$
14. (C) (A)  $\begin{matrix} U & Z & D & G & I \\ +5 & +4 & +3 & +2 & +1 \end{matrix}$  (B)  $\begin{matrix} J & O & S & V & X \\ +5 & +4 & +3 & +2 & +1 \end{matrix}$   
 (C)  $\begin{matrix} R & W & A & C & F \\ +5 & +4 & +3 & +2 & +1 \end{matrix}$  (D)  $\begin{matrix} F & K & O & R & T \\ +5 & +4 & +3 & +2 & +1 \end{matrix}$
15. (D) (A)  $\begin{matrix} B & A & D & C \\ -1 & +3 & -1 & -1 \end{matrix}$  (B)  $\begin{matrix} J & I & L & K \\ -1 & +3 & -1 & -1 \end{matrix}$   
 (C)  $\begin{matrix} N & M & P & O \\ -1 & +3 & -1 & -1 \end{matrix}$  (D)  $\begin{matrix} V & U & W & X \\ -1 & +2 & -1 & -1 \end{matrix}$
16. (A) (A)  $66 - 56 = 10$   
 (B)  $101 - 90 = 11$   
 (C)  $41 - 30 = 11$   
 (D)  $43 - 32 = 11$
17. (D) (A)  $\begin{matrix} J & L & N & K \\ +2 & +1 & +1 & +1 \end{matrix}$  (B)  $\begin{matrix} T & V & W & U \\ +2 & +1 & +1 & +1 \end{matrix}$

- (C)  $\begin{matrix} A & C & E & B \\ +2 & +1 & +1 & +1 \end{matrix}$  (D)  $\begin{matrix} G & J & K & H \\ +1 & +1 & +1 & +1 \end{matrix}$
18. (D)
19. (D) E = \$  
 R = 7  
 W & K = 4 & β  
 A = 9  
 KEWRA = \$β794
20. (C) Look many Books → sa da na  
Many more days → ka pa da  
 many → da  
 Books → either sa or na.
21. (A) The minute hand takes  $65\frac{5}{11}$  minutes to cross the hour hand.  
 According to question, the minute hand takes 65 minutes to cross the hour hand. So, it gains  $\frac{5}{11}$  minutes in every 65 minutes.  
 So, it gains in 65 minutes =  $\frac{5}{11}$  minutes  
 It gains in 60 minutes  

$$= \frac{60 \times 5}{11 \times 65} = \frac{60}{11 \times 13}$$
 In 24 hours it will gains  

$$= \frac{60 \times 24}{143} = \frac{1440}{143} = 10\frac{10}{143}$$
 minutes
22. (C) 1,3, 8,5,7, 2,9, 8,5,7, 6,3, 4,7,9, 4,7,6,5, 8,5,3
23. (B)
 



Now, total number of boys in the row  
 = position of Kamal from left + position of Kamal from right - 1  
 = 20 + 9 - 1 = 28 boys
24. (B) 2 5 9 19 37 75  
 $\begin{matrix} \times 2+1 & \times 2-1 & \times 2+1 & \times 2-1 & \times 2+1 \end{matrix}$

25. (A)  $8 \quad 24 \quad 12 \quad 36 \quad 18 \quad 54 \quad 27$   
 $\quad \times 3 \quad \quad \div 2 \quad \quad \times 3 \quad \quad \div 2 \quad \quad \times 3 \quad \quad \div 2$

26. (A)  $113 \quad 225 \quad 449 \quad 897 \quad 1793$   
 $\quad \times 2-1 \quad \quad \times 2-1 \quad \quad \times 2-1 \quad \quad \times 2-1$

27. (D)  $230 \quad 246 \quad 271 \quad 307 \quad 356$   
 $\quad + (4)^2 \quad \quad + (5)^2 \quad \quad + (6)^2 \quad \quad + (7)^2$

28. (D)  $DF \quad GJ \quad KM \quad NQ \quad RT \quad UX$   
 $\quad +3 \quad \quad +4 \quad \quad +3 \quad \quad +4 \quad \quad +3$

29. (A)  $WUV \quad TRS \quad OOP \quad NLM \quad KIJ$   
 $\quad -3 \quad \quad -3 \quad \quad -3 \quad \quad -3$   
 $\quad -3 \quad \quad -3 \quad \quad -3 \quad \quad -3$

30. (B)  $BDE \quad GIJ \quad LNO \quad QST \quad VXY$   
 $\quad +5 \quad \quad +5 \quad \quad +5 \quad \quad +5$   
 $\quad +5 \quad \quad +5 \quad \quad +5 \quad \quad +5$

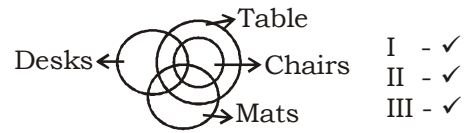
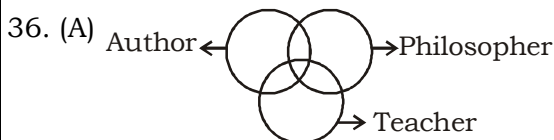
31. (A)  $(15 - 9) \times (22 - 16) \Rightarrow 6 \times 6 = 36$   
 $(13 - 9) \times (11 - 7) \Rightarrow 4 \times 4 = 16$   
 Similarly,  
 $(21 - 13) \times (x - 15)$   
 $= 8x - 120 = 64$   
 $\Rightarrow 8x = 120 + 64 = 184$   
 $\therefore x = 23$

32. (B)

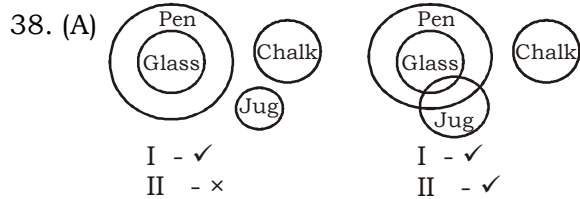
33. (C)   
 $6^2 + 7^2 = 85$   
 $2^2 + 3^2 = 13$   
 $10^2 + 11^2 = 221$   
 $7^2 + 8^2 = 113$

34. (A) In the first row  $\Rightarrow 15 + 7 - 10 = 12$   
 In the second row  $\Rightarrow 36 + 9 - 20 = 25$   
 In the third row  $\Rightarrow 28 + 11 - 24 = 15$

35. (C)  $9 + 5 = 4 + 10$   
 $8 + 7 = 6 + 9$   
 $12 + 6 = 8 + 10$



Only I and II follow



Only Ist follow.

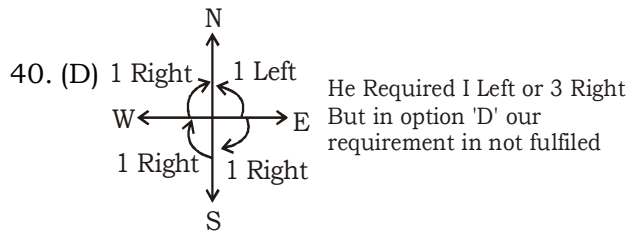
39. (A)  $0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9$   
 $\alpha \ \beta \ \omega \ \delta \ \theta \ \eta \ \gamma \ \mu \ \nu \ \phi$

$\frac{\omega\eta\gamma}{\theta} - \nu\beta + \frac{\delta\alpha}{\omega} = ?$

$\frac{256}{4} - 61 + \frac{30}{2} =$

$64 - 61 + 15 = 79 - 61 = 18$

$18 = \beta\nu$



41. (B) Father's only sister = aunt  
 Aunt's son = cousin

42. (D)

43. (B)

44. (B)

45. (D)

46. (C) abcd/abcd/abcd/abcd

47. (A)

48. (A)

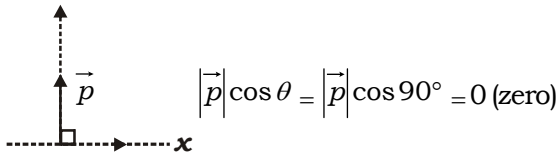
49. (C)

50. (B) F A I T H  
 31 34 23 76 79

109. (B)  $[ML^2T^{-2}] = \frac{1}{2}m.v^2$

Dimension of K.E. =  $[M][LT^{-1}]^2$   
 $= [ML^2T^{-2}]$

110. (A) Component of a force (p) at Right angles to its direction

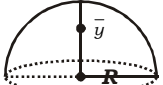


112. (B)  $\frac{d^2y}{dx^2} = \frac{d}{dx} \left( \frac{dy}{dx} \right) \Rightarrow$  If  $y =$  force

$x =$  velocity

Dimension of  $\left[ \frac{dy}{dx} \right] = \left[ \frac{MLT^{-2}}{LT^{-1}} \right] = [ML^0T^{-1}]$

Dimension of  $\frac{d}{dx} \left[ \frac{dy}{dx} \right] = \left[ \frac{ML^0T^{-1}}{LT^{-1}} \right] = [ML^0T^{-1}]$

113. (B)   $\bar{y} = \frac{3R}{8}$

114. (A) Due to pressure decreases, bubble radius is increases.

115. (C)  $F_N \left( \frac{V^2}{L.g} \right)^{1/2} = \frac{V}{\sqrt{L.g}}$

$L = 1.5$  m  
 $g = 9.8$  m/sec  
 $v = 2.5$  m/s

$F_N \frac{2.5}{\sqrt{1.5 \times 98}} = \frac{2.5}{3.83} = 0.652$

116 (D) All equipment based on Bernoulli's principal.

120. (A) Petton wheel is Tangential flow turbine.

126. (A) In Q.B system, angle is measured from the meridian, from north or south pole.

127. (A) W.C.B. =  $360^\circ - R.B. = 360^\circ - 35^\circ = 325^\circ$

129. (B) Because the needle is made of metal like iron.

130. (D) We do a preliminary inspection of the area & to draw a map.

131. (A) Chain  $\rightarrow$  An instrument  
Chaining  $\rightarrow$  Process  
Chainage  $\rightarrow$  Distance  
& Chain should lie on the line.

132. (D) Compass a needle which shows the direction only hot length & chain is a linear measurement instrument.

139. (A) To provide strong binding place.

142. (D) To provide better strength & it is expandable.

145. (A) After quarrying, it becomes soft surface for a time.

148. (A) It decided exact value of supply.

149. (D) Particles densifies watch & create obstacles to flow.

156. (D)  $E = 2G(1 + \mu)$   
put  $E = 2G$

Then,  $2G = 2G(1 + \mu)$

$1 = 1 + \mu$

$\mu = 0$

158.(B)  $Q = 30$  m<sup>3</sup>/s

$m = 0.3$  mm

$f = 1.76\sqrt{m} = 1.76\sqrt{0.3} = 0.964$

$V = \left( \frac{Qf^2}{140} \right)^{1/6}$

$= \left( \frac{30 \times (0.964)^2}{140} \right)^{1/6}$

$= 0.764$ .m/sec

160. (B)  $\alpha$  for copper is higher than steel.

161. (A) Pitch is the centre to centre distance guage is the adjacent rivet distance.

162. (D) Failure include all tearing, Bearing & shearing stress.

163. (B) Minimum two rivets are require to join a gusset plate with a plate.

165. (A) the rivets near to the edge of the plate have more chances to tear out, hence the weakest.

166. (B) No. of rivets =  $\frac{\text{Force}}{\text{rivet value}}$  and min. no. of rivets are two.

173. (A) radius =  $\frac{P_1 + P_2}{2}$ ,  $P_1 = P_2$

174. (A) Shear stress is zero at principal plane.

175. (A)  $\frac{dM}{dx} = S.F.$

177. (A) Stress  $\propto$  Strain (Hook's law)

190. (C)  $W_L = 35\%$

$W_p = 15\%$

flow index = 10%

toughness index =  $\frac{W_L - W_p}{\text{flow index}}$

$= \frac{35 - 15}{10} = \frac{20}{10} = 2.0$

200. (A) Minimum strength at throat hence designed for it.