



# KD Campus Pvt. Ltd

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

## Answer-key & Solution

SSC JE (Mechanical)  
MOCK -(92)  
Date 8.4.2017



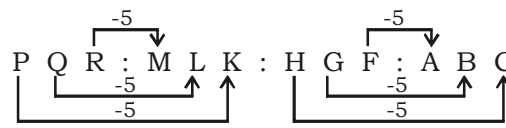
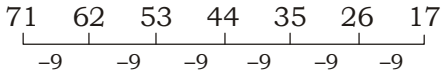
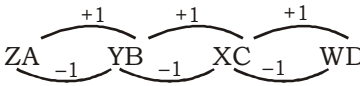
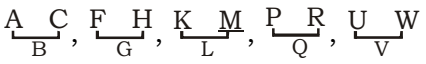
1. B	26. D	51. D	76. B	101. B	126. B	151. B	176. B
2. A	27. C	52. B	77. A	102. D	127. A	152. C	177. C
3. C	28. D	53. A	78. C	103. C	128. A	153. A	178. C
4. C	29. B	54. A	79. C	104. B	129. B	154. B	179. D
5. B	30. B	55. D	80. A	105. B	130. C	155. C	180. C
6. C	31. C	56. D	81. D	106. C	131. C	156. D	181.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

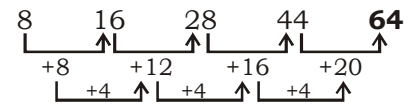
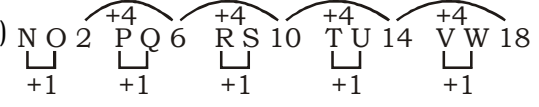
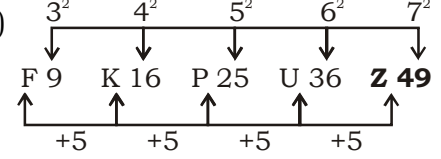
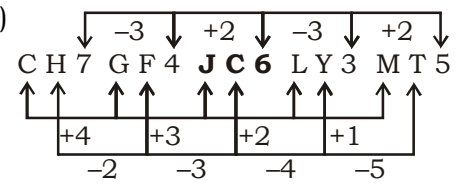
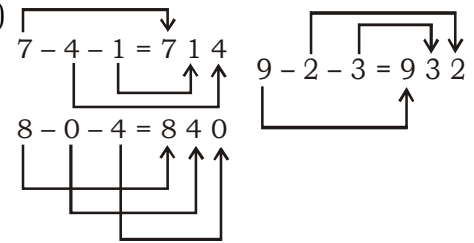
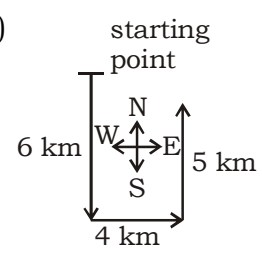
**Correction Mock Test - 91 (169. C, 178. A, 179. D, 183. B)**

**Note :** If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353

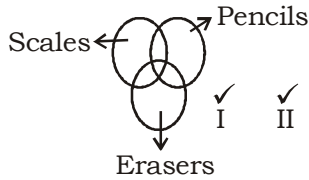
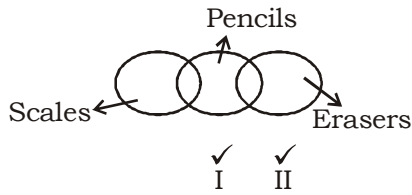
**Note :** If you face any problem regarding result or marks scored, please contact : 9313111777

**SOLUTION SSC JE (Mechanical) MOCK TEST no. 92**

1. (B) Dress is made by tailor. In the same way furniture is made by carpenter
2. (A) Arrow is shot from a bow. In the same way Bullet is fired from a Pistol.
3. (C)  $A C E : B D F :: M O Q : N P R$   

4. (C)  $100 : 121 :: 144 : 169$   
 $(10)^2 : (10+1)^2 :: (12)^2 : (12+1)^2$
5. (B) Pencil draws. In the same way a brush Paints.
6. (C)  $A B C : C B A :: P Q R : R Q P$   

7. (A)  $380 : 20 :: 420 : 21$   
 $380 = (20-1)(20) :: 420 : (21-1) (21)$   
 $380 = 19 \times 20 :: 420 : 20 \times 21$
8. (B)
9. (D)  $P Q R : M L K :: H G F : A B C$   

10. (B)  $24 22 21 : 19 17 16 :: 14 12 11 : 9 7 6$   
 $X V U : S Q P :: N L K : I G F$
11. (C) In all the others, the 3rd and 4th alphabet have interchanged their position.
12. (B)  $50 - 100$  and  $56 - 114$  both have  $\times 2$  below them.  
 $78 - 156$  and  $69 - 138$  both have  $\times 2$  below them.
13. (C) All months have 31 days except september
14. (B) Anger, Irritation, Rage are same.
15. (A) in option (A) 'b' is repeated twice.
16. (C) difference between Ist number and IInd number is 3 except in option 'C'
17. (B) All are related with examination except Print.
18. (C)  $71 \quad 62 \quad 53 \quad 44 \quad 35 \quad 26 \quad 17$   

19. (C)  $Z A \quad Y B \quad X C \quad W D$   

20. (C)  $A C, F H, K M, P R, U W$   


21. (\*)  $8 \quad 16 \quad 28 \quad 44 \quad 64$   

22. (D)  $N O 2 \quad P Q 6 \quad R S 10 \quad T U 14 \quad V W 18$   

23. (B)  $3^2 \quad 4^2 \quad 5^2 \quad 6^2 \quad 7^2$   
 $F 9 \quad K 16 \quad P 25 \quad U 36 \quad Z 49$   

24. (D)  $C H 7 \quad G F 4 \quad J C 6 \quad L Y 3 \quad M T 5$   

25. (B) Suppose I am Veena.  
 My grandfather's only son = My father  
 My father's son = My brother  
 Hence the boy is Veena's brother.
26. (D) UNISON cannot be formed because "S" is missing in communication.
27. (C)  $RELIGION \quad SECULAR$   
 $NOIGILER \quad RALUCES$   
 Reverse the order of letter.
28. (D)  $6 \times 4 - 12 = 12$   
 $24 - 12 = 12$   
 $12 = 12$
29. (B)  $7 - 4 - 1 = 7 \quad 1 \quad 4$   
 $9 - 2 - 3 = 9 \quad 3 \quad 2$   

30. (B) starting point  
  
 The man now faces North.

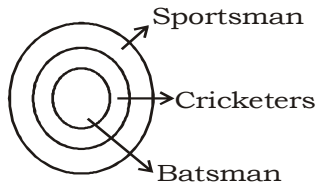
31. (C)



Both follow

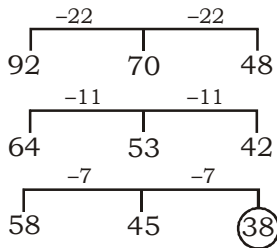
32. (B) B → D E F C A  
Right

33. (C)

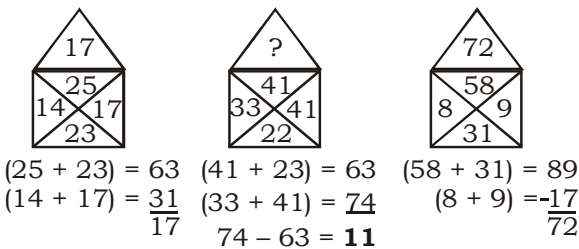


34. (A)      35. (B)      36. (D)      37. (C)

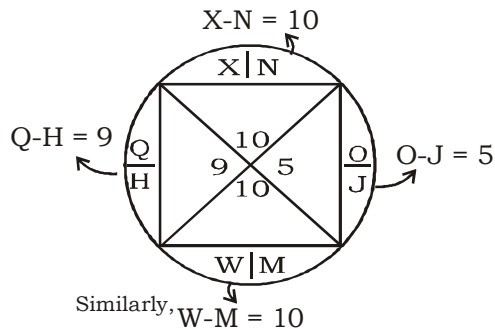
38. (C)



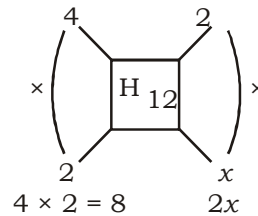
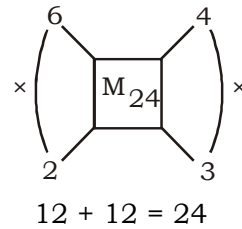
39. (B)



40. (D)



41. (B)



$8 + 2x = 12$   
 $2x = 12 - 8 = 4$

$x = \frac{4}{2} = 2$

42. (C) How often you come

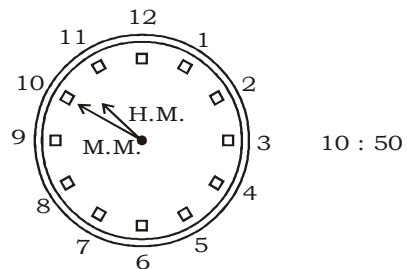
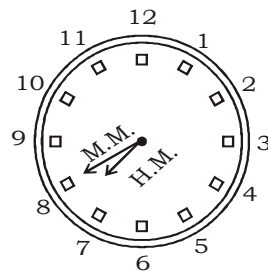
Ja ha na

How do you read

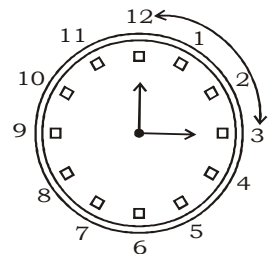
Sa ma na

Often → Ans → Either ja or na

43. (A)

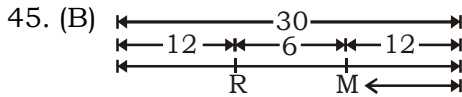


44. (C)



15 min Gap.  
Required 4 min Gap.  
 $(15 - 4) = 11$  min  
 $11 \times \frac{60}{55} = 12$  min

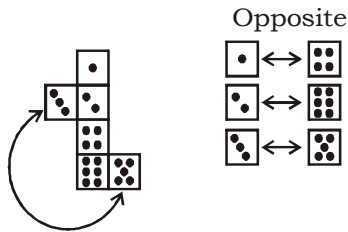
Hence 12 min past 3.



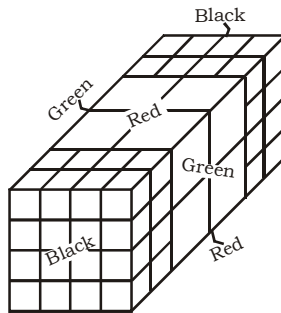
So, position of M from right  
 $= 30 - (12 + 6) + 1 = 30 - 18 + 1 = 13\text{th}$

46. (A)

47. (C)



48. (C)



Cubes with at least one face coloured green is as follows:

(i) On the Right face total number of cubes = 20

(ii) On the left face total number of cubes = 20

Thus, required number of cubes  
 $= 20 + 20 = 40$

49. (B)

50. (D) S      F      O      T  
89   03   12   98

106. (C)  $\delta Q = \delta W + du$

$$-400 = -1000 + du; \quad du = 600 \text{ J}$$

$\therefore$  Change in specific internal energy

$$du = \frac{600}{2} = 300 \text{ J / kg}$$

117. (C) For equilibrium, the total upthrust equals the downward force. If V is the volume of sphere, then

$$13.6g \times \frac{V}{2} + 0.8g \times \frac{V}{2} = \rho g \times V$$

$$\rho = 7.2 \text{ g/cm}^3$$

131. (C)  $V_1 = 1.4\text{m}^3$

$$V_2 = 0.9\text{m}^3$$

$$P = 100\text{kN/m}^2$$

$$V = -12 \text{ KJ}$$

$$Q = U + pdv$$

$$= -12 + 100(0.9 - 1.4)$$

$$= -12 - 100 \times 0.5$$

$$= -12 - 50$$

$$= -62 \text{ KJ}$$

192. (D)  $\sigma = 0.073 \text{ N/m}$

$$d = 1\text{mm}$$

$$p = \frac{4\sigma}{d}$$

$$= \frac{4 \times 0.73}{0.001} = 292 \text{ N / m}^2$$