

K D

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2007, OUTRAM LINES, 1ST FLOOR, NEAR GTB NAGAR METRO STATION, GATE NO. - 2, DELHI-110009

Answer-key & Solution

**SSC JE (Civil)
Practice Set-12**

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

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

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28. (A) $33, 28, 24, 21, 19, 18$
 $\downarrow -5 \uparrow -4 \uparrow -3 \uparrow -2 \uparrow -1 \uparrow$

29. (C) $6, 10, 18, 34, 66$
 $\times 2 - 2 \quad \times 2 - 2 \quad \times 2 - 2 \quad \times 2 - 2$

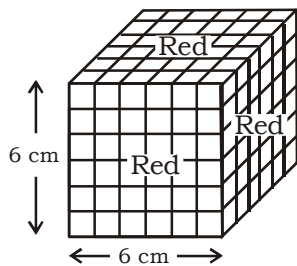
30. (A) $4, 8, 12, 24, 36, 72$
 $\times 3 \quad \times 3$

31. (B) Day on 1 March 1997 = Friday

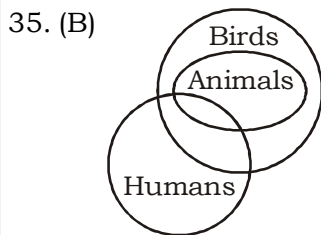
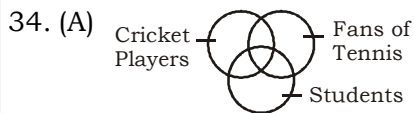
Day on 1 March 2000
 = Friday + [(2000-1997) + leap years]
 = Friday + [(3 + 1)]
 = Friday + 4 = Tuesday

32. (D) In the given given formats '2' and '3' are common. Hence, as per rule number '6' will be opposite to '5'.

33. (D)



Any of the small cubes can have maximum of three sides coloured. Hence, there will be no such cube whose more than three sides will be red in colour.

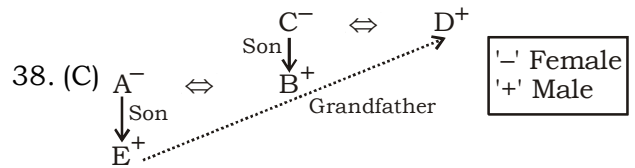
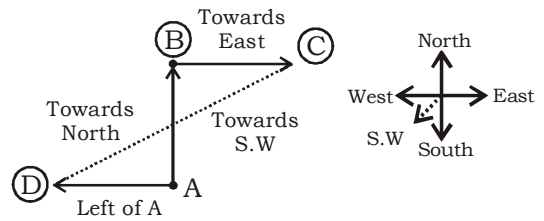


36. (D) $30 \times 5 - 4 \div 10 + 5 = 41$

Changing the notations as per question
 $30 \div 5 + 4 \times 10 - 5 = 41$
 $\Rightarrow 6 + 40 - 5 = 41$

$\Rightarrow 46 - 5 = 41$

37. (*)



40. (C) $R = 2S$ (i)

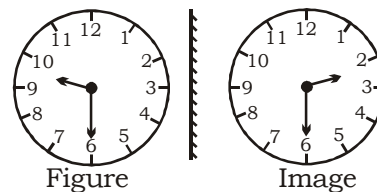
$R - 10 = 4(S - 10)$ (ii)

Taking R as 2S
 $2S - 10 = 4(S - 10)$
 $2S - 10 = 4S - 40$
 $2S = 30$
 $S = 15$ yrs
 $R = 2S$
 $R = 2 \times 15 = 30$ yrs

41. (D) Words formed with the letters SDEU

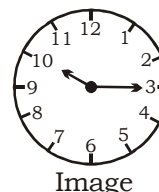
\Rightarrow USED, DUES and SUED

42. (C)



Hence, in the reflection time is 2:30

44. (B)



\therefore The time in the clock will show 10:15.

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| <p>102. (D) A good brick earth should contain about 20 to 30% to alumina. This constituent imparts plasticity to earth so that it can be moulded.</p> <p>104. (B) The main removal to sap from timber is done by seasoning of timber</p> <p>106. (D) The permissible deflection of a timber beam supporting a roof = $L/360$</p> <p>108. (B) Battered pile is an inclined pile and under ream pile is used where soil is having swelling characteristics. It is done by making bulbs in the pile.</p> <p>110. (C) for preparation of clay is cleaning, weathering, blending and tempering</p> <p>118. (A) The included angle ABC
= fore bearing - back bearing
= $68^\circ 30' + 1180 - 146^\circ 30'$
= 102°</p> <p>130. (C) If mach number is greater than one then it is supersonic and if mach number is equal to one then it is sonic flow and if mach number is less than one then it is subsonic flow.</p> <p>135. (A) stoke's law is not valid for the particle smaller than 0.0002 mm.</p> | <p>136. (B) The coefficient of curvature for a well graded soil is 1 to 3. Otherwise it will be poorly graded soil.</p> <p>139. (C) $K_a = \frac{1 - \sin \phi}{1 + \sin \phi}$, $K_a = \frac{1 + \sin \phi}{1 - \sin \phi}$</p> <p>140. (D) $\frac{1}{3} = \frac{1 - \sin \phi}{1 + \sin \phi} = K_a$, $\frac{1 + \sin \phi}{1 - \sin \phi} = K_p = 3$</p> <p>145. (C) $G = 2.5$, $w = 40\%$
 $S.e = wG$
 for saturated soil $S = 1$
 $e = 40 \times 2.5 = 1$
 $n = \frac{e}{1 + e} = \frac{1}{2} = 0.5 = 50\%$
 $\gamma_d = \frac{G\gamma_w}{1 + e}$
 $= \frac{2.5 \times 9.8}{2} = 12.25$
 $\gamma_{Sat} = \left(\frac{G + e}{1 + e} \right) \gamma_w = 17.15 \text{ kn} / \text{m}^3$</p> <p>171. (C) When two members meet at a joint & there is no force occure then force in this member will be zero.</p> |
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