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

Answer-key & Solution

SSC JE (Mechanical)
Practice Set-2

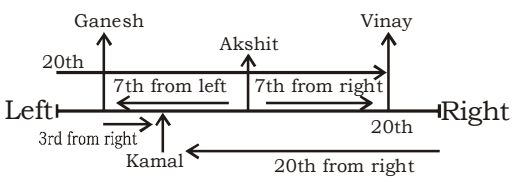
1. C	26. A	51. B	76. A	101. B	126. C	151. C	176. C
2. B	27. D	52. D	77. A	102. D	127. C	152. B	177. C
3. C	28. D, A	53. B	78. D	103. A	128. D	153. B	178. A
4. C	29. A	54. C	79. C	104. C	129. B	154. B	179. A
5. B	30. B	55. C	80. C	105. B	130. C	155. C	180. B
6. B	31. A	56. C	81. A	106. A	131. A	156. A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

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
   (-16, -16, -16) (-16, -16, -16)
4. (C) T M X K : U L Y J :: W Q F Z : X P G Y
   (+1, -1, +1, -1) (+1, -1, +1, -1)
5. (B) 6 : 2 :: 8 : **3**
   $(6\div2)-1 = 2$ $(8\div2)-1 = 3$
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
   (-1, +3, -1, +3) (-1, +3, -1, +3)
8. (A) 365 : 90 :: 623 : **36**
   $3\times6\times5 = 90$ $6\times2\times3 = 36$
9. (C) 212 : 436 :: 560 : **784**
   (+224) (+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) G E C A (-2, -2, -2) (B) V U S Q (-1, -2, -2)
    (C) P N L J (-2, -2, -2) (D) T R P N (-2, -2, -2)
14. (C) (A) U Z D G I (+5, +4, +3, +2) (B) J O S V X (+5, +4, +3, +2)
    (C) R W A C F (+5, +4, +2, +3) (D) F K O R T (+5, +4, +3, +2)
15. (D) (A) B A D C (-1, +3, -1) (B) J I L K (-1, +3, -1)
    (C) N M P O (-1, +3, -1) (D) V U W X (-1, +2, -1)
16. (A) (A) 66 - 56 = 10
    (B) 101 - 90 = 11
    (C) 41 - 30 = 11
    (D) 43 - 32 = 11
17. (D) (A) J L N K (+1, +2) (B) T V W U (+1, +2)
    (C) A C E B (+1, +2) (D) G J K H (+1, +1)
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
    $$= \frac{60\times5}{11\times65} = \frac{60}{11\times13}$$
    In 24 hours it will gains
    $$= \frac{60\times24}{143}$$
    $$= \frac{1440}{143} = 10\frac{10}{143}\text{minutes}$$
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 (×2+1) 5 (×2-1) 9 (×2+1) 19 (×2-1) 37 (×2+1) **75**

25. (A) 8 (×3) 24 (÷2) 12 (×3) 36 (÷2) 18 (×3) 54 (÷2) **27**

26. (A) 113 (×2-1) 225 (×2-1) 449 (×2-1) **897** (×2-1) 1793

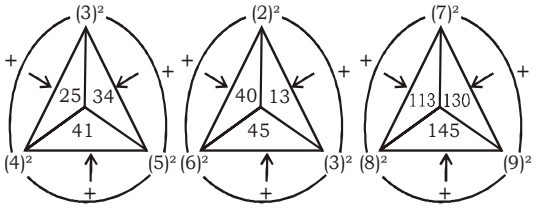
27. (D) 230 (+ (4)²) 246 (+ (5)²) 271 (+ (6)²) 307 (+ (7)²) **356**

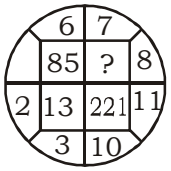
28. (D) DF (+3) GJ (+4) KM (+3) NQ (+4) RT (+3) **UX**
(+4, +3, +4, +3, +4)

29. (A) WUV (-3) TRS (-3) QOP (-3) NLM (-3) **KIJ**
(-3, -3, -3, -3)

30. (B) BDE (+5) GIJ (+5) LNO (+5) QST (+5) VXY
(+5, +5, +5, +5)

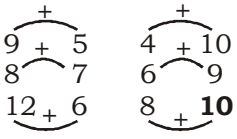
31. (A) $(15 - 9) \times (22 - 16) \Rightarrow 6 \times 6 = 36$
$(13 - 9) \times (11 - 7) \Rightarrow 4 \times 4 = 16$
Similarly,
$(21 - 13) \times (x - 15)$
$= 8x - 120 = 64$
$\Rightarrow 8x = 120 + 64 = 184$
$\therefore x = 23$

32. (B) 

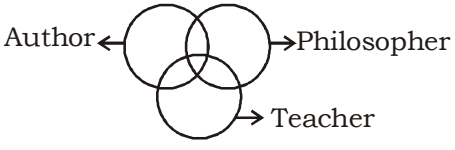
33. (C) 

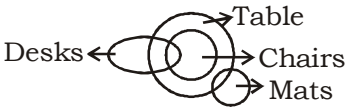
$6^2 + 7^2 = 85$
$2^2 + 3^2 = 13$
$10^2 + 11^2 = 221$
$7^2 + 8^2 = 113$

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**

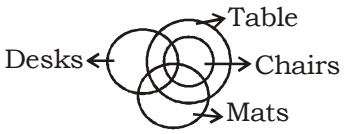
35. (C) 

(9 + 5) = (4 +10)
(8 + 7) = (6 +9)
(12+6) = (8 +10)

36. (A) 

37. (B) 

I - ×
II - ✓
III - ×



I - ✓
II - ✓
III - ✓

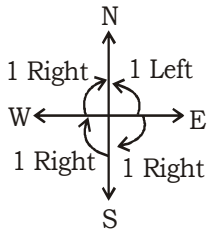
Only IInd follow

39. (A) 0 1 2 3 4 5 6 7 8 9
α β ω δ θ η γ μ ν φ

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

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

64 - 61 + 15 = 79 - 61 = 18
18 = βν

40. (D) 

He Required I Left or 3 Right But in option 'D' our requirement in not fulfiled

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

46. (C) **a**bcd/a**b**cd/ab**c**d/abc**d**

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

106. (A) $\frac{V_1}{T_1} = \frac{V_2}{T_2}$

$$\Rightarrow \frac{1.5}{273+27} = \frac{V_2}{273+327}$$

$\Rightarrow V^2 = 3\ m^3$

110. (D) $T_1 = 273 + 27 = 300$ K
$T_2 = 273 + (-23) = 250$ K

$$COP = \frac{T_1}{T_1 - T_2} = \frac{300}{300-250} = 6$$

112. (D) $P = \frac{4T}{d} = \frac{2T}{r}$

195. (A) $\Sigma M_A = 0$
$R_B \times 9 - 10 \times 6 \times 3 = 0$
$R_B = 20$ N
$\Sigma F = 0$
$R_A + R_B - 10 \times 6 = 0$
$R_A = 60 - 20$
$= 40$ N