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

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Answer-key & Solution

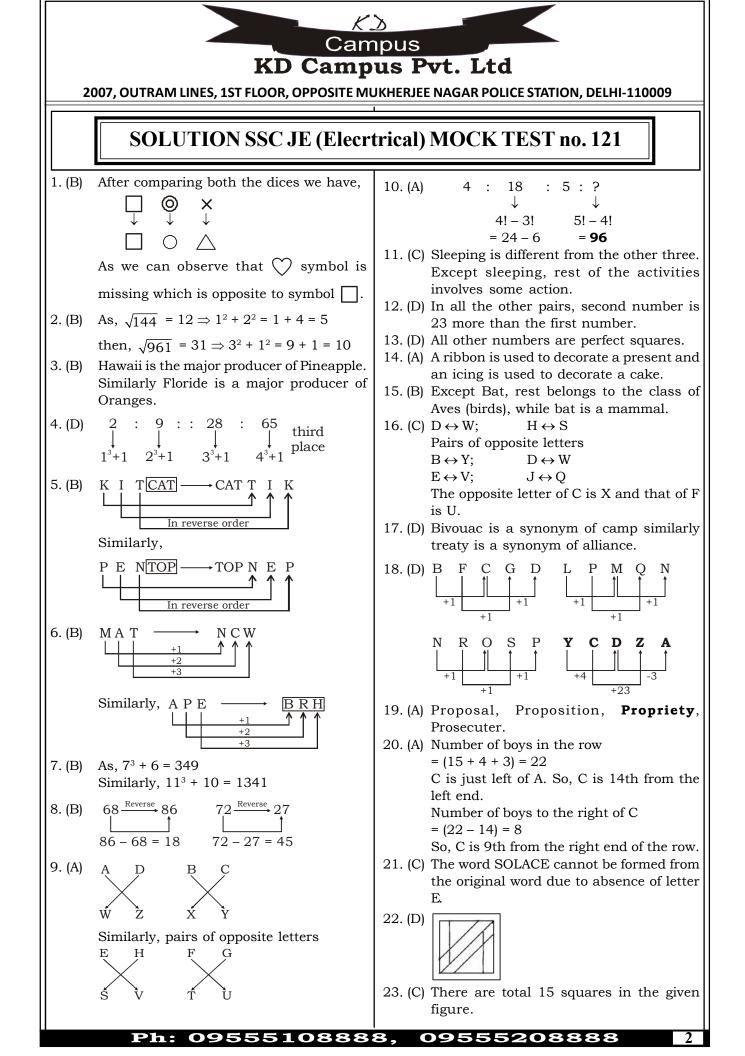
SSC JE (Electrical) MOCK -(121) Date:- 04.11.2017

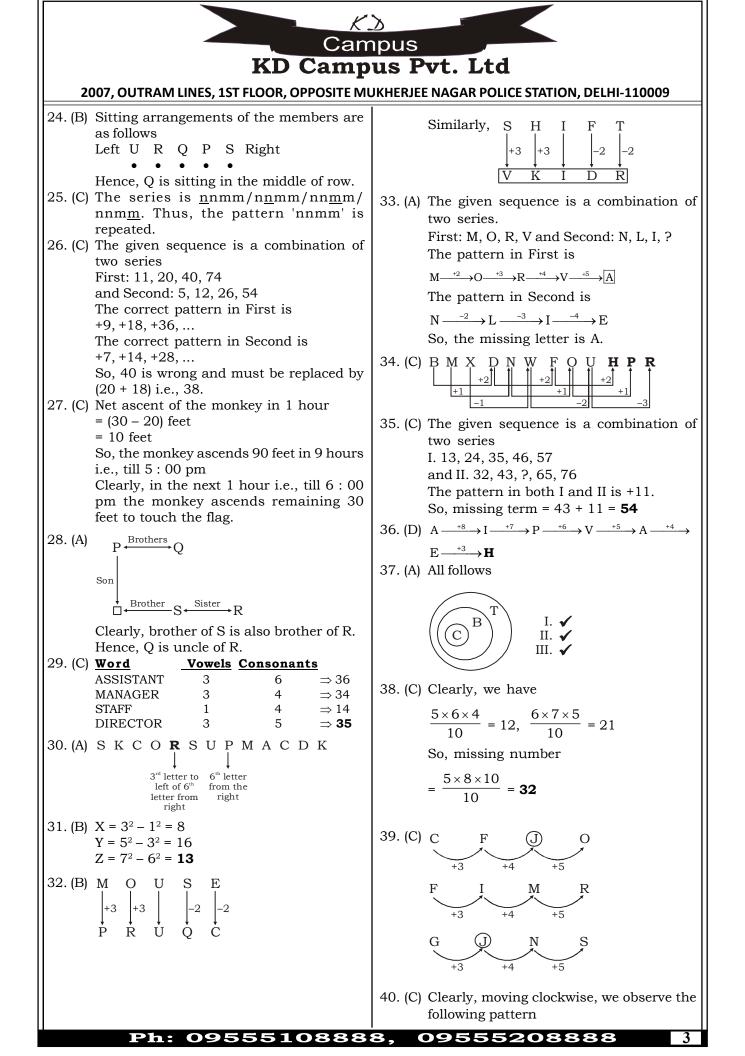
1. B	26. C	51. B	76. C	101. D	126. C	151. B	176. B
2. B	27. C	52. B	77. D	102. C	127. D	152. C	177. C
3. B	28. A	53. B	78. B	103. A	128. C	153. D	178. D
4. D	29. C	54. B	79. A	104. B	129. B	154. C	179. C
5. B	30. A	55. B	80. B	105. B	130. B	155. B	180. A
6. B	31. B	56. B	81. D	106. B	131. A	156. B	181.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

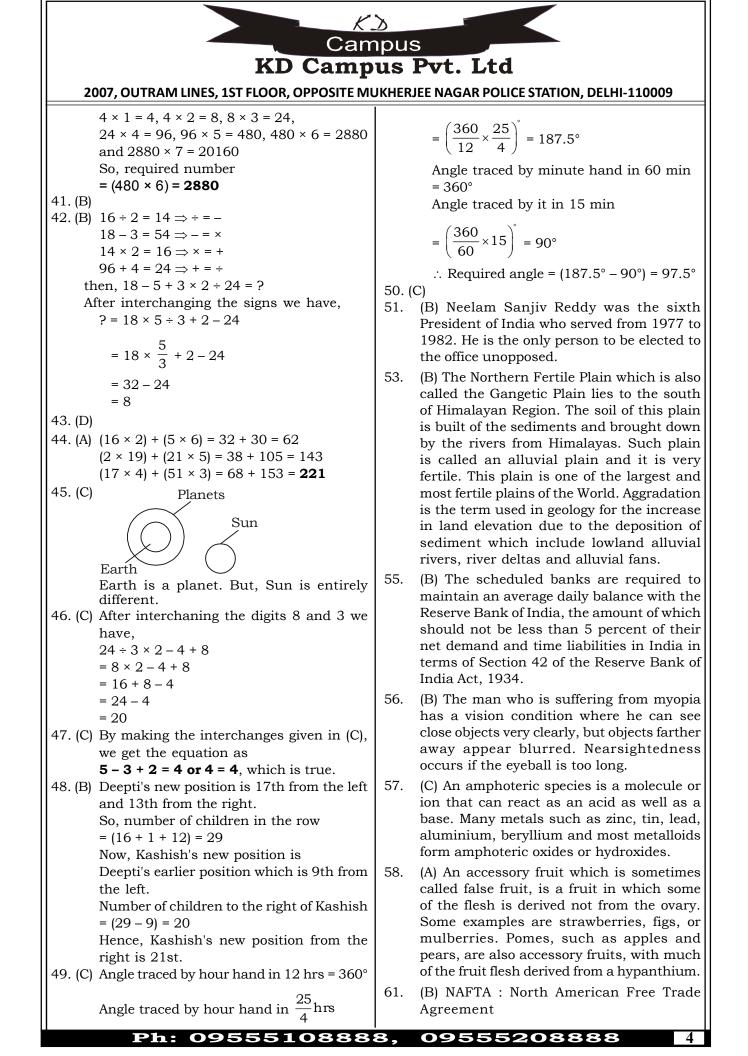
Note : If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353

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

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NATO : North Atlantic Treaty Organisation **EEC** : European Economic Community

ASEAN : Association of South East Asian Nations. NATO is military alliance.

- 62. (D) The Ryder Cup is a biennial men's golf competition between teams from Europe and the United State. Jointly administered by the PGA of America and the PGA European Tour, it is contested every two years with the venue alternating between courses in the USA and Europe.
- 63. (A) The renal arteries normally arise off the side of the abdominal aorta, immediately below the superior mesenteric artery and supply blood to the kidneys.
- 65. (D) The separation of fat from milk is based on the fact that when liquids of different specific gravities revolve around the same centre at the same distance with the same angular velocity, a greater centrifugal force is exerted on the heavier liquid than on the lighter one.
- 66. (B) Inventory refers to raw materials, workin-process goods and completely finished goods that are considered to be the portion of a business's assets that are ready or will be ready for sale. Inventory are also represented as one of the most important assets that most businesses possess because the turnover of inventory represents one of the primary sources of revenue generation and subsequent earnings for the company's shareholders/ owners.

69. (D)

- Member of Parliaments are directly elected by citizens of India on the basis of Universal Adult franchise, except two who are appointed by the President of India.
- The President of India is elected, from an Electoral College comprising a group of nominees, by the elected members of the Parliament of India (Lok Sabha and Rajya Sabha) as well as of the state legislatures (Vidhan Sabhas).
- The Vice President is elected indirectly by an electoral college consisting members of both houses of the Parliament.

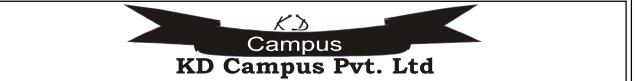
Members of the Lok Sabha elect their

Speaker in the first meeting of the House after a general election.

- 76. (C) Humming birds are birds that comprise the family Trochilidae. They are among the smallest of birds, most species measuring in the 7.5-13 cm (3-5 in) range. Indeed, the smallest extant bird species is a humming bird, the 5 cm Bee Humming bird. They are known as hummingbirds because of the humming sound created by their beating wings which sometimes sound like bees or other insects.
- 77. (D) In chemistry, pH is a measure of the activity of the solvated hydrogen ion. Pure water has a pH very close to 7 at 25 °C. Solutions with a pH less than 7 are said to be acidic and solutions with a pH greater than 7 are basic or alkaline. A pH of 7 is treated as neutral.
- 78. (B) Normal speech is about 60 dB (decibels). A dangerous sound is anything that is 80 dB or higher which can lead to hearing loss. At 70 dB or lower, the risk of harm to healthy ears is negligible. Listening to sound above 80 decibels can cause deafness.
- 80. (C) The Manufacturing Belt was called the Rust Belt in the latter decades of the 20th century because the word that describes the deterioration of iron into rust was an appropriate name to give to a region where the iron and steel and related industries were in great decline.
- (D) The specific heat of water is 1 calorie/ 81. gram $^{\circ}C = 4.186$ joule/gram $^{\circ}C$ which is higher than any other common substance. So, we can say that water plays a very important role in temperature regulation.
- 84. (C) Eratosthenes of Cyrene, 276 BC-195 BC, was a Greek mathematician, geographer, poet, athlete, astronomer, and music theorist. He was the first person to calculate the circumference of the earth by using a measuring system using stades, or the length of stadiums during that time period.
- (C) As India is following a parliamentary 85. system of government in which the Prime Minister is generally the leader of a party (or coalition of parties) that has a majority in the Lok Sabha, the lower house of the Parliament of India. He remains in office till he enjoys the confidence of the House.

86. (C) Trusteeship is a socio-economic 09555208888

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philosophy that was propounded by Mahatma Gandhi. It provides a means by which the wealthy people would be the trustees of trusts that looked after the welfare of the people in general. This concept was condemned by socialists as being in favour of the landlords, feudal princes and the capitalists.

- 87. (D) The Parliament enacted the "President Act, 1969" (Discharge of Functions) which provides that in the event of occurrence of vacancy in the office of both the President and the Vice-President, the Chief Justice of India or in his absence the senior-most judge of the Supreme Court available shall discharge the functions until a new President is elected.
- 88. (A) As in most other contemporary civilizations, agriculture was the backbone of the Indus economy also. The people made extensive use of the wooden plows. Barley and wheat were the main food crops.

89. (B) Weather is the state of the atmosphere, to the degree that it is hot or cold, wet or dry, calm or stormy, clear or cloudy. Most weather phenomena occur in the troposphere, just below the stratosphere. Weather refers, generally, to day-to-day temperature and precipitation activity. Weather is different from climate as it is the term for the average atmospheric conditions over longer periods of time.

90. (B) The Battle of Chausa took place between Mughal Emperor Humayun and Sher Shah Suri on June 26, 1539. The whole of the Mughal army was defeated in this battle. Humayun himself fled.

92. (A) Some goods are known as inferior goods. There is an inverse relationship between real income and the demand for the good. If real income rises, the demand for an inferior good will fall. If real income falls (in a recession, for instance), the demand for an inferior good will rises.

> For example- As people get richer, they are more likely to buy themselves a car, or use a taxi, rather than rely on the more inferior bus, so the demand for bus travel falls as real income rise.

93. (C) The angle of deviation by which the light of a particular wavelength gets deviated on passing through a medium depends upon the refractive index of the medium. As while light passes through a prism, the violet component, having the minimum wavelength also observes the maximum refractive index for the prism and deviates the most.

- 94. (C) Global Warming refers to average increase in the earth's temperature due to increase in pollution which results in greenhouse effect which in turn leads to climate change. The greenhouse gases such as carbon dioxide accumulate into the atmosphere and trap heat that would normally exit into the outer space.
- 95. (D) A common first sign of tetanus is muscular stiffness in the jaw (lockjaw) which is followed by stiffness of the neck, difficulty in swallowing, rigidity of abdominal muscles and spasms.

102. (C) Heat produced by heater, W =
$$\frac{V^2}{R}$$

It supply is made half to rated value the

developed heat =
$$\frac{\left(\frac{V}{2}\right)^2}{R} = \frac{V^2}{4R} = \frac{W}{4}$$

103. (A) Phase difference =
$$\frac{\pi}{3} - \left(\frac{-\pi}{4}\right)$$

 $= 60^{\circ} + 45^{\circ} = 105^{\circ}$

=
$$10\Omega \Rightarrow \frac{1}{j2\pi fC}$$

Capacitive reactance at 100Hz frequency

$$=\frac{10}{2}=5\Omega$$

106. (B) Voltage across the capacitor

$$C_1 = 300 \times \frac{2}{1+2} = 200 \ Volt$$

107. (C) rms value of alternating current

$$= \frac{I_{m}}{\sqrt{2}} = \frac{14.14}{1.414} = 10 \ amp$$

111. (C)
$$C_{AB} = \frac{C \times C}{C + C} + \frac{C}{2} = C$$

112. (A) Internal resistance = $\frac{V}{V}$

Voltage difference Current

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