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

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Answer-key & Solution

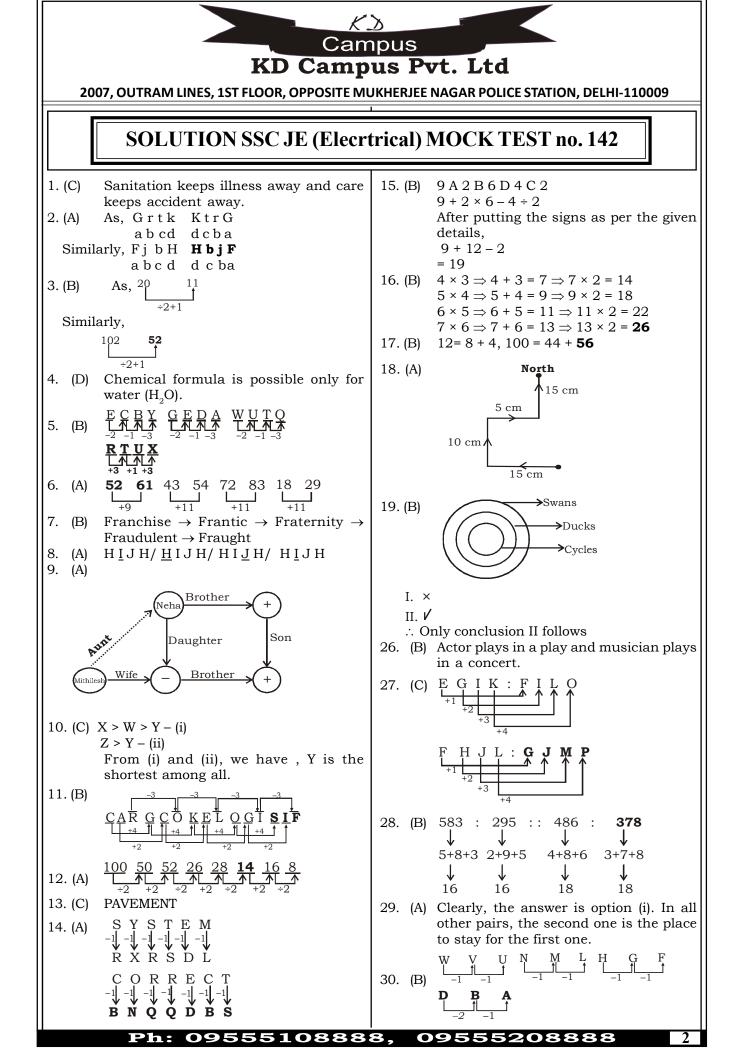
SSC JE (Electrical) MOCK - (142) Date:- 30.6.2018

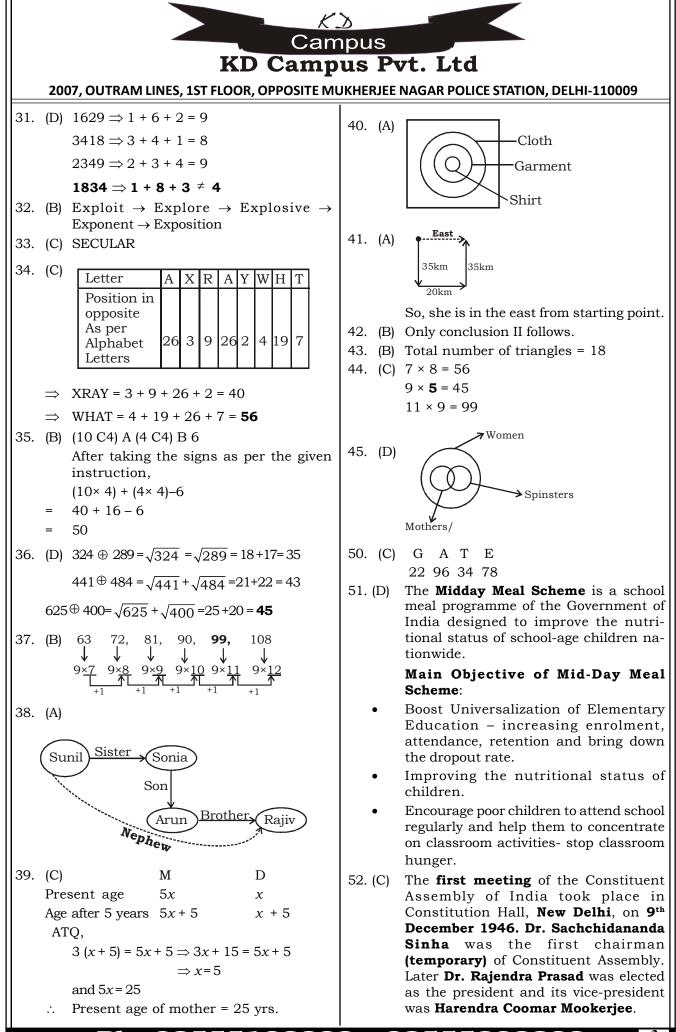
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1. C	26. B	51. D	76. A	101. C	126. C	151. C	176. B
2. A	27. C	52. C	77. A	102. D	127. B	152. B	177. C
3. B	28. B	53. C	78. B	103. B	128. C	153. B	178. A
4. D	29. A	54. C	79. A	104. A	129. B	154. D	179. A
5. B	30. B	55. D	80. D	105. B	130. A	155. B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

Ph: 09555108888, 09555208888



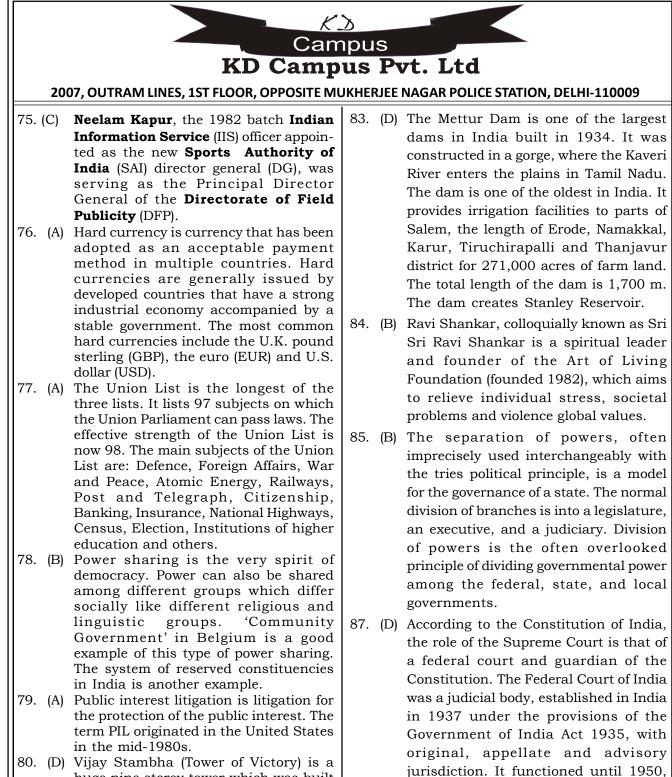




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- 53. (C) The Komagata Maru was a coaltransport steamship that had been converted into a passenger ship by Hong Kong-based businessman Gurdit Singh. It set off from Hong Kong in April 1914, reaching Vancouver's harbour a month later with 376 people on board.
- 55. (D) The **Niger Delta** is the delta of the **Niger River** sitting directly on the **Gulf of Guinea** on the Atlantic Ocean in Nigeria. Niger Delta is a very densely populated region sometimes called the **Oil Rivers** because it was once a major producer of **palm oil**.
- 57. (D) A **bluish-green** crystalline compound that is used in sewage and water treatment, and as a pigment and fertilizer. It is also used in medicine to treat iron deficiency. It is also,called **Green Vitriol**. (Chemical formula: **FeSO**)
- 59. (D) Roland Georges Garros (1888–1918), was a French aviator and World War I fighter pilot. French Open, a major (grand slam) tennis tournament is also known as Roland Garros, named after him.
- 60. (C) Kumbh Mela, inscribed on the **UNESCO's** Representative List of Intangible Cultural Heritage of Humanity, is a mass Hindu pilgrimage of faith in which Hindus gather to bathe in a sacred or holy river. Traditionally, four fairs are widely recognized as the Kumbh Melas: the Haridwar Kumbh Mela, the Allahabad Kumbh Mela, the Nashik- Trimbakeshwar Simhastha, and Ujjain Simhastha. These four fairs are held periodically at one of the following places by rotation: Haridwar, Allahabad (Prayaga), Nashik district (Nashik and Trimbak), and Ujjain.
- 61. (C) The **Bhimbetka rock shelters** are an archaeological site in central India that spans the prehistoric Paleolithic and Mesolithic periods, as well as the historic period. They are situated some 28 miles (45 km) south of **Bhopal**, in west-central **Madhya Pradesh** state.
- 62. (A) The **Lahore Resolution**, commonly known as the **Pakistan Resolution**,was a formal political statement adopted by the Muslim League at the occasion of its three-day general session on 22–24 March 1940 that called for greater Muslim autonomy in British India. The resolution was presented at Minto Park, in Lahore, by **Maulvi A.K. Fazlul Huq** on the instructions of the Working Committee.

- 63. (D) The **Central Statistics Office** (CSO) is a governmental agency in India under the Ministry of Statistics and Programme Implementation responsible for co-ordination of statistical activities in India, and evolving and maintaining statistical standards.
- 64. (C) Beyond the gas giant Neptune lies a region of space filled with icy bodies. Known as the **Kuiper Belt**, this chilly expanse holds trillions of objects, remnants of the early solar system.
- 66. (C) **Ultrasound** uses sound waves to create an image (picture). The sound waves can't be heard and the power of the sound waves used is very low. In pregnancy an ultrasound scan can be used **to look at the developing baby**.
- 68. (D) The **Pushkar Fair** is one of the most attractive festivals in **Rajasthan**. In the start of winters every year, the desert landscape is seen covered by almost **30,000 camels**. The fair eponymous with camels is a fascinating colorful opportunity to witness an Indian festival.
- 69. (B) An Inquiry into the Nature and Causes of the Wealth of Nations is the full name of the famous book by Scottish economist and moral philosopher Adam Smith. Known more commonly by its shortened name, The Wealth of Nations was published in 1776.
- 70. (A) **Data Protection Day** marks a global event that occurs every **28th January** to raise awareness and promote privacy and data protection best practices. It is an effort to empower people to protect their privacy, control their digital footprint and escalate the protection of privacy and data as everyone's priority.
 - 7th February : **Safer Internet Day**
 - 1st March : Zero Discrimination Day
 - 4thMarch : **National Security Day**
- 72. (D) The planets, asteroids, and comets travel around the Sun, the center of our Solar System. The Solar System is elliptical or egg shape, and is part of a galaxy known as the Milky Way. The inner Solar System consists of the Sun, Mercury, Venus, Earth and Mars.
 - **Nebula**: A nebula is a massive cloud of gas and dust in outer space.



- 80. (D) Vijay Stambha (Tower of Victory) is a huge nine storey tower which was built by Maharana Kumbha to commemorate his victory over the Muslim rulers of Malwa and Gujarat in 1440 A.D. The tower is 122 ft. (37 m) high and stands on a 10 ft. (3.0 m) high base.
- (C) Jerome Hayden Powell has been swornin as the new Chairman of the Federal Reserve for a four-year term on February 5, 2018.
- 82. (A) Deccan Traps is a very large igneous province located in west central India. It consists of more than 6,500 feet of flat-lying basalt lava flows and covers an area of nearly 200,000 square miles in west-central India.
 - Ph: 09555108888, 09555208888

when the Supreme Court of India was

depends only upon the depth of the fluid,

the density of the fluid and the

acceleration of gravity. The pressure in

a static fluid arises from the weight of

the fluid and is given by the expression

static fluid = dgh, where d = fluid density,

g = acceleration due to gravity and h =

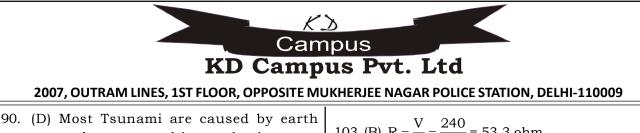
depth of fluid. Static fluid pressure does

not depend on the shape, total mass or

surface area of the liquid.

89. (B) The pressure exerted by a static fluid

established.



- 90. (D) Most Isunami are caused by earth quakes generated in a seduction zone, an area where an oceanic plate is being forced down into the mantle by plate tectonic forces. The friction between the sub-ducting plate and the overriding plate is enormous.
- 92. (C) The different parts of a flower are calyx, corolla, androecium and gynoecium. Calyx and corolla are accessory organs, while androecium and gynoecium are reproductive organs. Photosynthetic activity is found in the calyx, green shoulder, pericarp and locular parenchyma. It suggests that all of these tissues have significant roles in CO₂ scavenging and the provision of carbon assimilates.
- 95. (C) It was on 4th December 1829, when the practice was formally banned in all the lands under Bengal Presidency by Lord William Bentinck. By this regulation, the people who abetted sati were declared guilty of "culpable homicide".
- 97. (C)• Saliva: It is secreted by the salivary glands, Sweat achieved by the waterrich secretion of the eccrine glands.
 - Epinephrine: Also known as adrenaline is a hormone and a neurotransmitter.
 - Bile: It is a bitter-tasting dark green to yellowish brown fluid produced by the liver that aids the process of digestion of lipids in the small intestine.
 - Bile is the odd one among all four as it is secreted by liver, while others are secreted by glands.
- 98. (B) Snakes have the maximum number of ribs. On an average they have 200 to 400 bones (Vertebrae) and each has a pair of ribs on either side.
- 100. (C) On February 8, 2018, Central Government announced that it has approved the construction of over 1.86 lakh more houses for urban poor under the Pradhan Mantri Awas Yojana (Urban) scheme. With this approval, total number of affordable houses sanctioned under this scheme has reached 39.25 lakhs. 101. (A) $a_c = 1 - S$ or 100 - S%

103. (B)
$$R = \frac{V}{I} = \frac{240}{4.5} = 53.3 \text{ ohm}$$

104. (A) $R_{eq} = 200 || 100$
 $= 66.67 \text{ ohm}$
 $I = \frac{V}{R_{eq}} = \frac{100}{66.67} = 1.5 \text{ amp}$
105. (B) $P_{eq} = \frac{V^2}{R}$
 $R = \frac{240 \times 240}{400} = 144 \text{ ohm}$
106. (B) $P_{r} = [(5 \times 60) + (5 \times 40)]5 + (120 \times 10)$
 $= (300 + 200)5 + 1200$
 $= 2500 + 1200$
 $= \frac{3700}{1000} = 3.7$
114. (B) $I_{m} = \sqrt{2} I_{ms} = \sqrt{2} \times 5 = 7.07 \text{ amp}$
117. (C) $Z = \sqrt{R^2 + (X_L - X_C)^2} = \sqrt{20^2 + (63 - 32)^2}$
 $= \sqrt{20^2 + 31^2} \cdot Z = 37$
135. (C) $V_2 = \frac{400}{1000} \times 250 = 100 \text{ Volts}$
157. (B) $I_b = \frac{2000 \text{ MVA}}{\sqrt{3} \times 33 \text{ KV}}$, $I_b = 35 \text{ KA}$
making current $I_m = 2.55 \times I_b = 89 \text{ KA}$
162. (A) Fault MVA $_{p,u} = \frac{1}{X_{p,u}} = \frac{1}{0.5} = 2 \text{ p.u.}$
163. (B) SC MVA $= \frac{1500 \text{ KVA}}{0.075} = 200 \text{ MVA}$
175. (B) Load factor $= \frac{P_{avg} \text{ demand}}{\text{max demand}}$
 $P_m = \frac{P_{avg}}{L_r} = \frac{606/24}{0.45} = 55.55 \text{ KW}$
176. (B) Plant capacity factor $= \frac{avg.annual load}{capacity of plant}$
 $= \frac{400}{900} = 0.5$
190. (B) Total no. of charge $= \frac{2.147}{30.4 \times 10^{-8}}$
 $= 7062500$
quantity of electricity $= \frac{7062500}{60 \times 60}$

Ph: 09555108888, 09555208888

= 1961 Ah