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## Answer-key & Solution

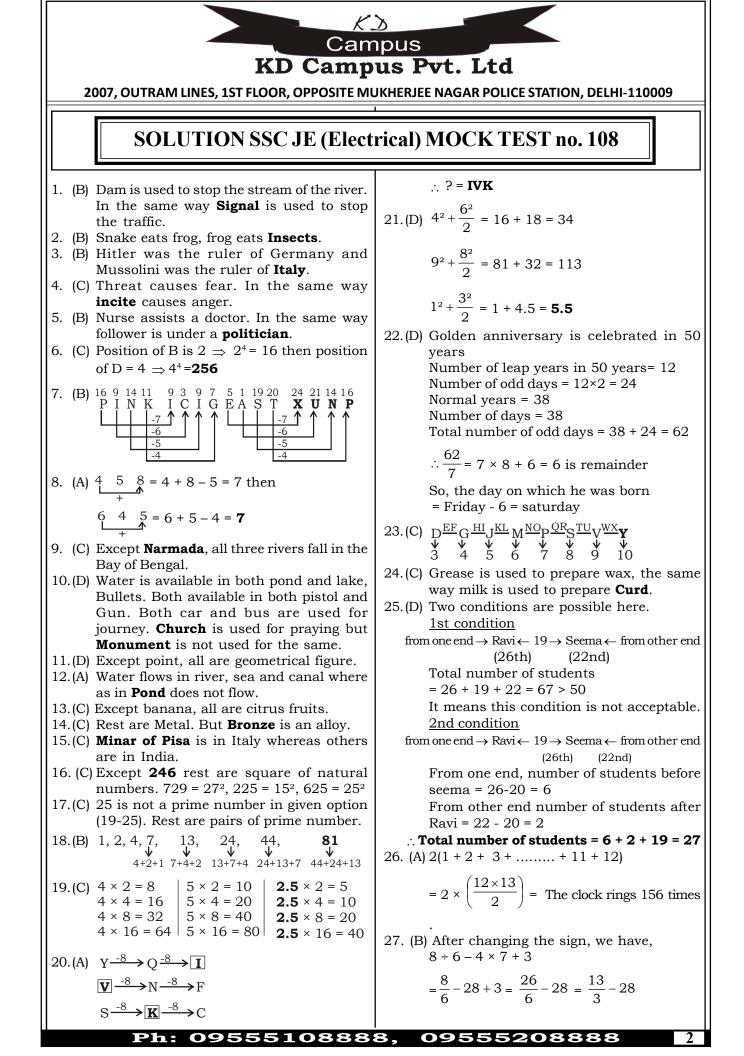
SSC JE (Electrical) MOCK -(108) Date 29/ 7/ 2017

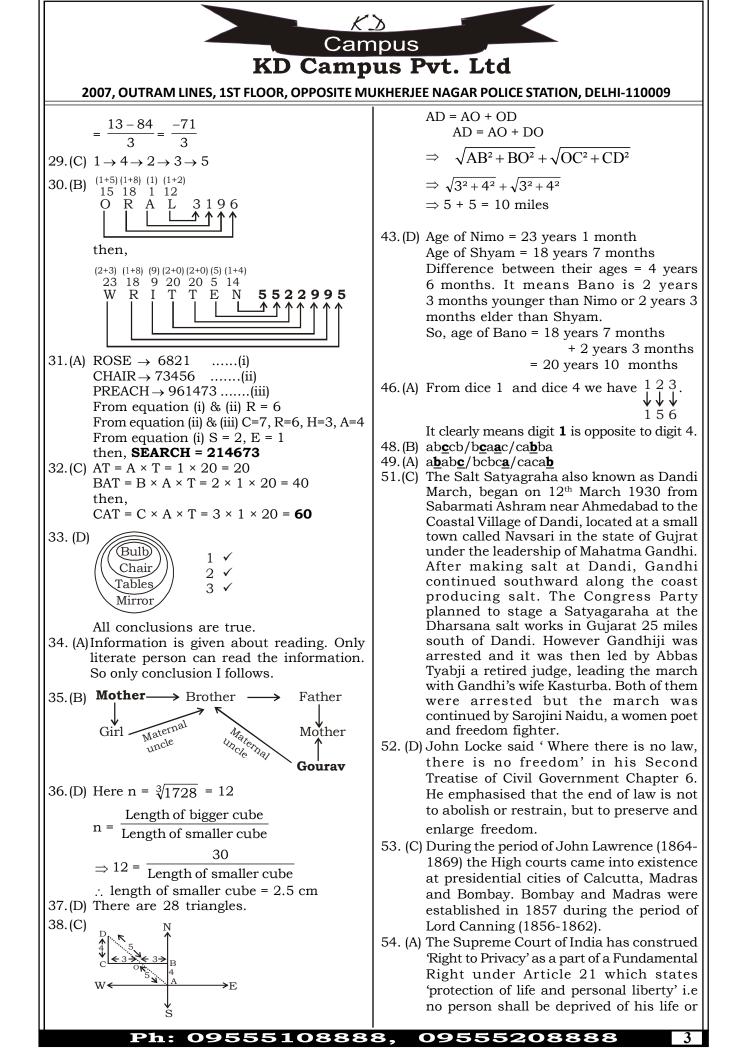
1. B	26. A	51. C	76. C	101. B	126. D	151. A	176. A
2. B	27. B	52. D	77. A	102. C	127. A	152. B	177. A
З. В	28. A	53. C	78. C	103. B	128. B	153. D	178. B
4. C	29. C	54. A	79. D	104. C	129. B	154. D	179. B
5. B	30. B	55. D	80. C	105. B	130. B	155. C	180. B
6. C	31. A	56. A	81. D	106. C	131. D	156. C	181.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

*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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personal liberty except according to the procedure established by law.

55. (D) The Classical theory of Sovereignty established the legal character of sovereignty. It held it as absolute, perpetual, universal, inalienable and indivisible. Also its application in the political field give rise to many problems. It could not resolve the conflict between the State and Government and also between the individual and the state on other side. The pluralist theory of sovereignty seeks to resolve this dilemma.

The pluralist sought to redefine the nature of the state as one of the several associations of human beings operating in the society to secure the multifarious interests of individuals. Infact, the Pluralist theory seeks to curtail or limit the absolute authority of the state as against the classical theory. It is said that laws are not an expression of the commands of sovereign but also conditions of solidarity to social life of men.

- 56. (A) An ecosystem includes all the living things (plants, animals and organisms) in a given area, interacting with each other and also with their non-living environments (weather, earth, sun, soil, climate atmosphere).
- 57. (C) In 1600, English East India Company was established by a small group of English merchants. By a Charter, Queen Elizabeth granted them exclusive right to trade with the East. The East India company set up its first factory at Surat. Then Madras also became an important British trading settlement. In 1688, Bombay was transferred to the company by king Charles II, who had received it as dowry from Portuguese at an annual rent of 10 pounds. Further the Company also established trading centre at Fort William in Calcutta. So, by 1700 the East India company had established three important factories in Madras, Bombay and Calcutta.
- 58. (C) Tributaries of Brahmaputra from Northbank are Jiadhal, Subansari, Siang, Kameng, Dhansiri, Puthimari, Pagladiya, Manas, Champamati, Saralbhanga, Aie, Sankosh.

Tributaries from South bank are Noa Dehing, Buridehing, Debang, Dikhow, Dhansiri (S), Kopili, Digaru, Dudhnai and Krishnai.

60. (A) In 1936-37 provincial elections were held in British India which was mandated by

- the Government of India Act 1935. Elections were held in 11 provinces – Madras, Central Provinces, Bihar, Orissa, United Provinces, Bombay Presidency, Assam, NWFP, Bengal, Punjab and Sindh. The Indian National Congress emerged in power in all the provinces except Bengal, Punjab and Sindh. And the All India Muslim League failed to form the government in any province.
- 61. (C) The Fabian society is a British socialist organization whose purpose is to advance the principles of democratic socialism via gradualist and reformist. It is known for its initial ground- breaking work beginning late in the 19<sup>th</sup> century and continuing up to World War-I. The society laid foundations of the Labour Party and subsequently affected by the policies of states emerging from the decolonization of the British empire, especially India.
- 62. (A) The Japanese names for Japan are Nippon and Nihon. Both Nippon and Nihon literally mean 'The Sun's origin' i.e. where the sun originates and termed it as the Land of the Rising Sun. This nomenclature comes from Imperial correspondence with the Chinese Sui Dynasty and refers to Japan's eastern position relative to China.
- 63. (B) Economic rent is surplus over transfer earnings. It arise when the supply of the factor unit is less than perfectly elastic or not perfectly elastic. When supply is perfectly elastic, there is no surplus or economic rent but actual and transfer earnings are equal. In such a scenario at a given price or remuneration, the entrepreneur can engage in any number of factor units.
- 66. (B) Taxation is a means by which governments finance their expenditure by imposing charges on citizens and corporate entities. Government use taxation to encourage or discourage certain economic decisions. Therefore taxation is a tool of Fiscal Policy.
- 68. (A) Angora wool is also known as Angora hair or Angora fiber. It refers to the downy coat produced by the Angora rabbit. Angora is known for its softness, thin fibres fluffiness, silky texture. It is much warmer and lighter than wool due to hollow core of the angora fibre.
- 70. (C) National food for work programme was launched on 14<sup>th</sup> Nov. 2004 in 150 of the most backward districts of India with the objective of generating supplementary wage employment. This programme is open to all rural poor who are prepared to do manual, unskilled labour. It is

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- 73. (D) Vernacular Press Act 1878, was passed under the Governor Generalship and Viceroyalty of Lord Lytton for 'better control' of Indian language newspapers. This law was repealed by Lytton's successor Lord Ripon in 1881. This act was criticized by Indian Association (founded in 1876) and is considered to be one of the precursors of the Indian National Congress (founded in 1885).
  - Lord Curzon was the Governor General and Viceroy of India from 1899 to 1905.
- 74. (D) Vamsathapakasini was the last Buddhist text produced in India which gives information about the origin of the Mauryas.
- 75. (C) Commercial Nitric acid has a brown colour due to dissolved nitrogen dioxide. The procedure of bubbling dry air through warm commercial Nitric Acid, is to drive away the dissolved nitrogen dioxide, so that the acid becomes colourless.
- 76. (C) Ultraviolet (UV) light has shorter wavelengths than visible light. Although UV waves are invisible to the human eye, some insects can see them. The Sun is a source of the full spectrum of ultraviolet radiation, which is subdivided into UV-A, UV-B and UV-C. UV-C rays are most harmful and almost completely absorbed by our atmosphere. UV-B rays are harmful rays that cause sunburn. Exposure to UV-B rays increases the risk of DNA and other cellular damage in living organisms. Fortunately, about 95% UV-B rays are absorbed by ozone in the Earth's atmosphere.
- 78. (C) Hamburger effect is also known as chloride shift. It is a process which occurs in a cardiovascular system and refers to the exchange of bicarbonate  $(HCO_3)$  and chloride (Cl<sup>-</sup>) across the membrane of red blood cells (RBCs).
- 79. (D) According to Tarikh-i-Firuzshai, Allauddin promulgated seven ordinances in order to accomplish his price control measure. They are -
  - (i) All food prices were to be fixed.
  - (ii) Large storage of grain was established in Delhi.
  - (iii) A high ranking official was there to ensure that no tampering was done.

- controlled by the government.
- (v) From hoarding of grains, peasants and traders were prohibited.
- (vi) The collection of revenue was to be made in kind and the government for grain should be there to eliminate the private storage of grain.
- (vii) A daily status report on market prices had to be submitted to the Sultan.
- 80. (C) X-rays is a form of electromagnetic radiation ranging from wavelength 0.01 to 10 nanometres. X-ray wavelengths are shorter than UV rays and longer than gamma rays. Due to its penetrating ability, they are widely used to image the inside objects especially in medical radiography and airport security. But direct X-ray are not able to capture clear images of intestine. For this a powder named Barium is mixed with water to make Bariumi liquid. This liquid is given to the patient before X-ray and then the X-ray is done.
- 82. (C) In India, all the major banks have been operating under Branch Banking System. Branch Banking implies engaging in banking activities such as accepting deposits. It is a system of banking in which a banking organization works at more than one place. The main place is known as head office and other places of business are called branches.
- 84. (A) Inchemia is a restriction in blood supply to tissues causing a shortage of oxygen and glucose needed for cellular metabolism. It also means local anaemia in a given part of a body sometimes result from congestion.
- 85.(C) MIRV stands for Multiple independently reentry vehicle. It is a ballistic missile payload containing several warheads, each capable of being aimed to hit one of a group of targets. Britain, China, France, Russia and US are known to possess MIRV missiles.
- 86. (D) According Mahatma Gandhi, to Trusteeship plays an important role. He wanted to abridge the gap between the rich and the poor. He envisaged that food, cloth and shelter are the basic needs of the human beings. So, the excess wealth or property of the rich can add welfare to the society. The wealth and talent should be considered a trust of the whole society and as 'trustee' the individual should handle it for the betterment of the society
- 89. (B) Boron increases the absorption of water and calcium in the plants. It also helps in the metabolic activities in plants. Boron

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is necessary for sugar to move through protoplasmic membranes.

- 90. (C) <u>Government of India Act 1935</u>. It was passed in August 1935 and is said to have been the longest Act of Parliament. Features of the Act are:-
  - The grant of a large measure of autonomy to the provinces of British India (ending the system of dyarchy introduced by the Government of India Act 1919).
  - Provision for the establishment of a 'Federation of India', to be made up of both British India and some or all of the 'princely states'.
  - The introduction of direct elections, thus increasing the franchise from seven million to thirty-five million people.
  - A partial reorganisation of the provinces. However, the degree of autonomy introduced at the provincial level was subject to an important limitations The provincial Governors retained important reserve powers and the British authorities also retained a right to suspend responsible government. The parts of the Act intended to establish the federation of India never came into operation, due to opposition from rulers of the princely states.
- 93.(C) Diminishing returns is also known as diminishing marginal returns. It is the decrease in the per-unit or marginal output of a production process as the amount of a single factor of production is increased, while the amounts of all other factors of production remains constant. This law plays a central role in the production theory.
- 95. (A) Yellow fever is an acute viral disease. Its symptoms include fever, chills, loss of appetite, nausea, muscle pains particularly in the back and headache. This disease is caused by yellow fever virus and spread by the bite of female mosquito Aedes Aegypti.
- 97. (C) Peru Current also known as Humboldt current, is a cold, low salinity ocean current that flows north-westward along the west coast of South America from the southern tip of Chile to northern Peru. It is an eastern boundary current flowing in the direction of the equator and can extend 1,000 kilometers offshore.
- 98. (D) The rate of respiration is dependent on temperature. The warmer it is,the more a plant will respire. Drought, extreme winter or frost and heat creates a situation where moisture is not adequate to maintain the proper water level in plant tissues. The air is also very dry as well.
- 99. (D) Lambert's law states that the radiant intensity or luminous intensity observed

from an ideal diffusely reflecting surface or radiator is directly proportional to the cosine of the angle  $\theta$  between the direction of the incident light and the surface normal. Such a surface has the same radiance when viewed from any angle.

100. (D)Epidemic dropsy is a clinical state resulting from the use of an edible oil adulterated with Argemone Mexicana seed oil.

102. (C) 
$$T = K_a I_a$$

....

and  $\mathbf{E} = \mathbf{K}_{n} \phi \mathbf{N}$ 

From above equation

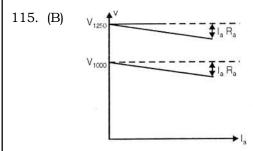
$$T_1 N_1 = T_2 N_2$$
$$T_2 = \frac{T_1 N_1}{N_2}$$

$$=\frac{200 \times 25}{20}=250$$
 N-m

111. (C) The rectification is provided, by the rotation or commutator. Hence in d.c. machine armature winding must be on rotor.

114. (D) 
$$E = \frac{\phi ZN}{60} \left(\frac{P}{A}\right)$$

for wave wound A = 2 always for lap wound P = A = 8 so E<sub>wave wound</sub> > E<sub>Lap wound</sub>



In both case drop will remain same.

 $\therefore$  Voltage regulation at 1250 rpm would be less than 10%.

117. (C) For maximum power transfer to the  $2\Omega$  resistor

$$8\Omega = \frac{2\Omega}{K^2}$$
  

$$\therefore \quad K = 1/2$$
  

$$\therefore \quad \frac{N_2}{N_1} = \frac{1}{2}$$
  

$$N_1 = 2N_2$$

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