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

Campus KD Campus Pvt. Ltd

## Answer-key & Solution

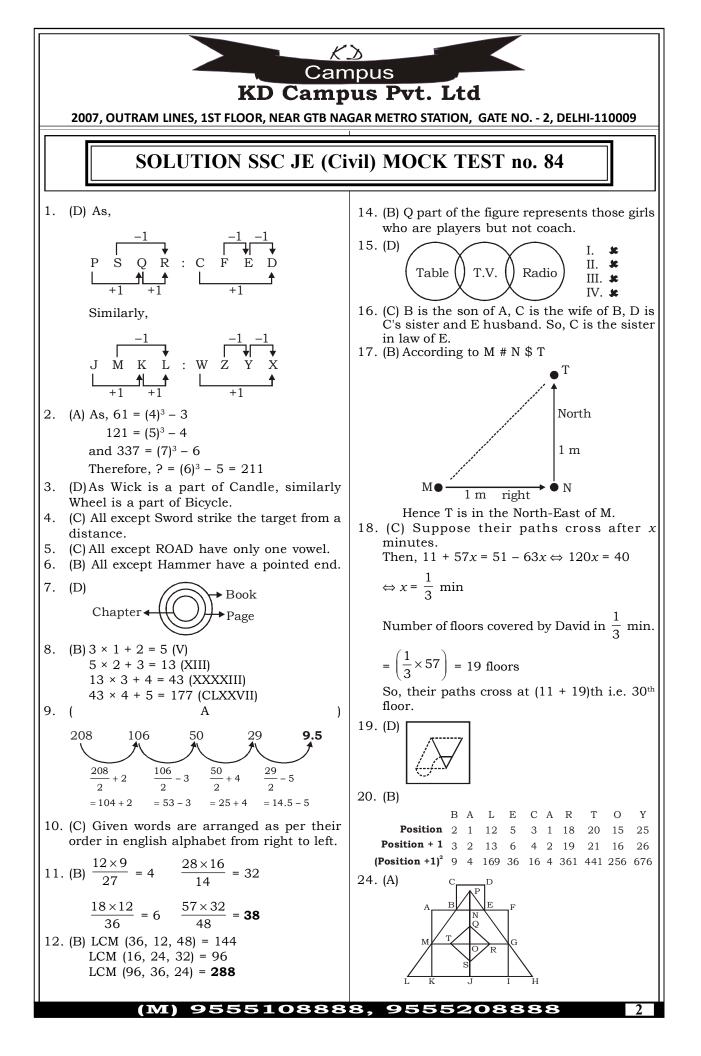
SSC JE (Civil) MOCK -(84) Date 04.02.2017

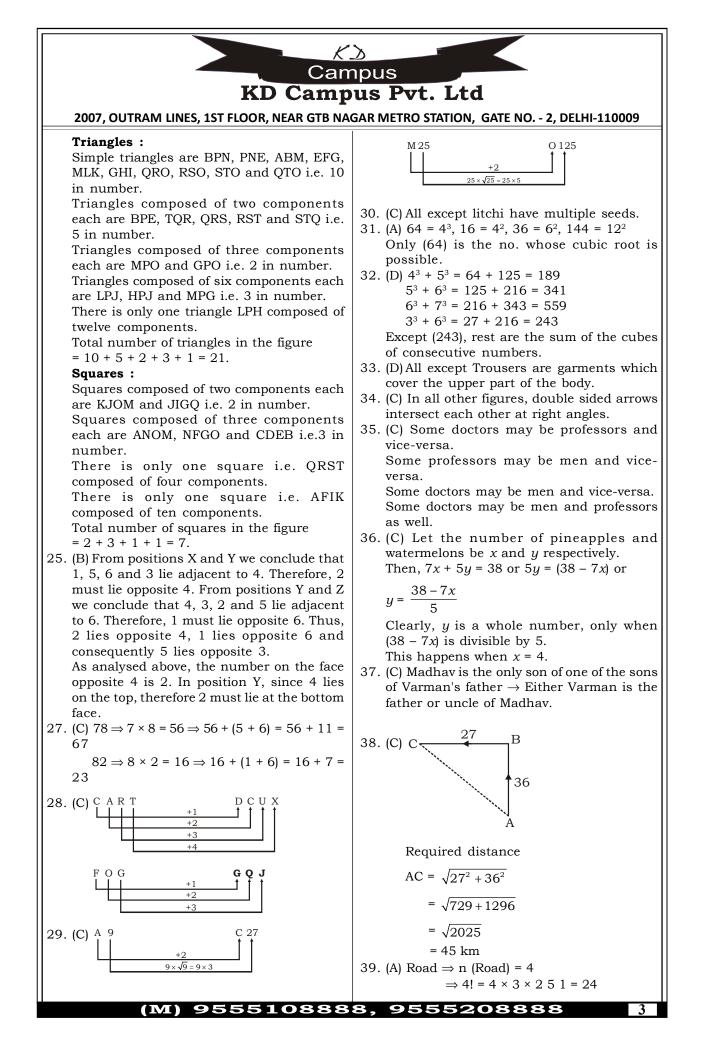
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1. D	26. C	51. C	76. B	101. C	126. C	151. A	176. D
2. A	27. C	52. C	77. A	102. D	127. A	152. B	177. D
3. D	28. C	53. B	78. A	103. B	128. C	153. C	178. C
4. C	29. C	54. B	79. D	104. B	129. C	154. B	179. A
5. C	30. C	55. A	80. A	105. C	130. C	155. C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

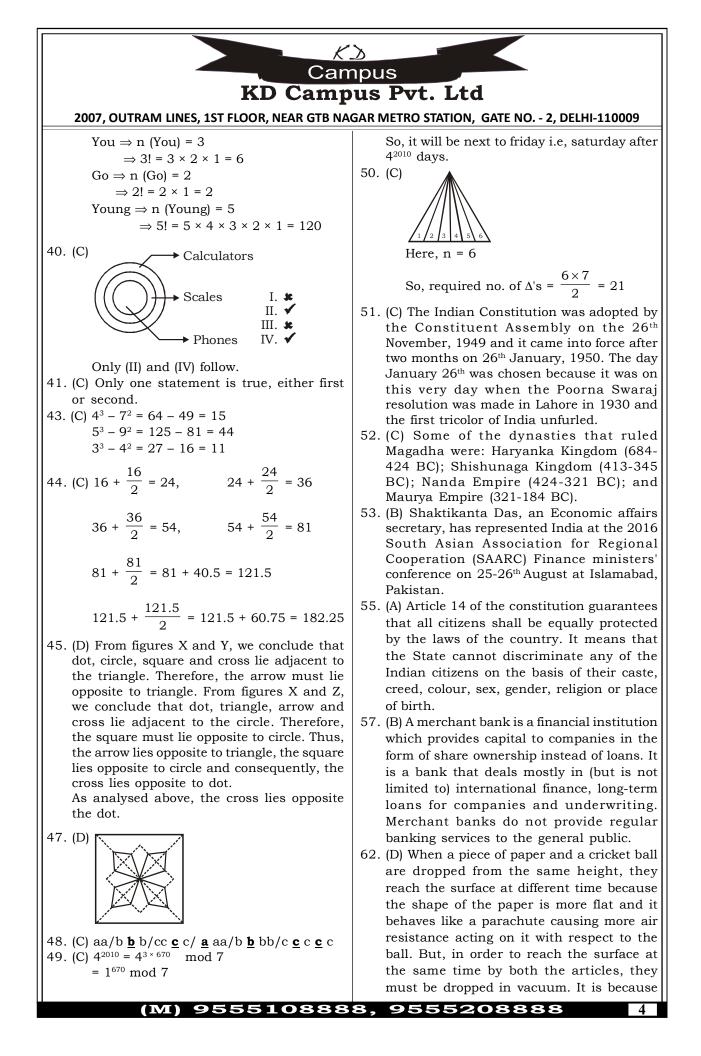
*Note* : If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353

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

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in vacuum there is no other force other than force of gravity occurring on them and this leads to a conclusion that both the article reaches at the same time.

- 63. (D) The taste buds for sweet are on the tip of the tounge. The 'salt' taste buds are on the either side of the front of the tounge. The 'sour' taste buds are behind this and 'bitter' taste buds are way in the back.
- 64. (A) Raisina Hill is an area of Lutyens Delhi, New Delhi, housing India's most important government buildings, including Rashtrapati Bhavan, the official residence of the President of India and the Secretariat building housing the Prime Minister's Office and several other important ministries. It is surrounded by other important buildings and structures, including the Parliament of India, Rajpath, Vijay Chowk and India Gate.
- 65. (C) This is a method is described whereby, using primitive equipment anyone can measure the size of the earth to an accuracy of order of magnitude 10% by observing two sunsets in the space of a few seconds.
- 66. (B) Lead-potash lime glass is flint glass. It has high refractive index and is used in making prisms lens etc. It is a soft glass.
- 67. (D) Rock salt is another name given to "Sodium Chlorides ores".
- 69. (A) The 4<sup>th</sup> edition of Mother Teresa International Film Festival (MTIFF) 2016 started in Kolkata, West Bengal on August 26. The 4-day-long movie carnival at the state-run Nandan multiplex screened a selection of 23 best foreign and Indian films ever made on or inspired by Teresa. It is organized by the Archdiocese of Kolkata, Missionaries of Charity and SIGNIS India (Indian chapter of World Catholic Association for Communication). The Roman Catholic nun Mother Teresa, who passed away in 1997 after serving the poor and sick on the streets of Kolkata for 45 years, will be declared a saint by Pope Francis in the Vatican City on September 2016.
- 70. (A) An ashrama in Hinduism has four stages in an age-based social system as laid out in the Manu Smriti and later Classical Sanskrit texts. These stages are: Brahmachari (student), Grihasta (Householder), Vanaprastha (forest dweller or Hermit in semi retirement age) and Sannyasi (the renounced one in full retirement age). The Ashram system is believed by the Hindus

to lead to a fulfillment of the four aims of life namely, Dharma (righteousness), Artha (wealth), Kama (pleasure) and Moksha (liberation).

- 71. (A) Because aluminium with oxygen forms a thin layer of Aluminium Oxide which is tough and protects aluminium objects from further corrosion.
- 73. (B) Karnataka will host the 15<sup>th</sup> edition of Pravasi Bharatiya Divas (PBD) 2017 in Bengaluru for 3 days from January 7<sup>th</sup>, 2017. The theme of 2017 PBD is "Redefined Engagement With Indian Diaspora". The PBD convention is held on January 9<sup>th</sup> each year to commemorate the return of Mahatma Gandhi from South Africa in 1915. It is celebrated to mark the contribution of the overseas Indian community to the development of the country.
- 76. (B) Mustard gas is "Dichloro Diethye sulphide"; its vapours produced blisters on skin and damages lungs.
- 78. (A) India has recently signed an agreement with Egypt in the area of Maritime Transport in New Delhi to step up co-operation on the seas. The agreement will strengthen cooperation and provide sustained mutual assistance and advice on merchant shipping and other related maritime matters. It was signed during the 3-day visit of Egyptian President Abdel Fattah El Sisi to India on September 1-3, 2016. This is the first presidential visit to Egypt from India since the visit of then President Mohamed Morsi in 2013.
- 79. (D) The book "Munnu: A Boy from Kashmir" has been authored by Malik Sajad. This book is a poignant, heart-stopping account of what it means to be a young boy growing up in a conflict-ridden land.
- 80. (A) Article 222 empowers the President to transfer judges from one High Court to another. Clause (2) of this article goes on to provide that when a judge is transferred he shall be entitled to receive a compensatory allowance in addition to his salary. It is felt that there is no real justification for granting such an allowance and it is accordingly proposed to omit clause.
- 81. (B) Anuradha Rao has been appointed as the new MD and CEO of SBI Mutual Fund. Prior to this appointment, Rao was the Deputy Managing Director at SBI handling New Business Portfolio. She succeeded

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Dinesh Kumar Khara, who has been appointed Managing Director of State Bank of India (Associate & Subsidiaries).

- 86. (D) The Indian Space Research Organization (ISRO) will launch the INSAT-3DR satellite into orbit by the GSLV-F05 rocket vehicle from the Satish Dhawan Space Centre at Sriharikotta, Andhra Pradesh. The INSAT-3DR is a modern weather satellite and has a mission duration of 8 years. It will help to predict weather patterns and also provide search and rescue information.
- 87. (C) A basic microscope is made up of two converging lenses. The first lens creates a real image which serves as the object for the second lens, and the image created by the second lens is the one a viewer sees. The final image is magnified, virtual and is inverted compared to the original object.
- 88. (A) Since the colour of red litmus paper remained red with no change, hence the given liquid is not base.
- 89. (A) Nearness to source of raw materials is one of the key factors that guide the establishment of such industries as iron, steel and other metal industries. Besides, they are also found near the coal mines which are used in smelting processes.
- 91. (D) Steel Authority of India Limited is one of the largest state-owned steel-making company based in New Delhi (India) and it is one of the top steel makers in World. Major plants owned by SAIL are located at Bhilai, Bokaro, Durgapur, Rourkela, Burnpur (near Asansol) and Salem.
- 94. (C) The Forty-second Amendment of the Constitution of India, enacted in 1976, brought about the most widespread changes to the Constitution until then. It is often called a "mini-Constitution" or the "Constitution of India".
- 97. (B) Seller's market is a market which has more buyers than sellers. High prices result from this excess of demand over supply. The opposite of the seller's market is the buyer's market, where supply greatly exceeds demand.
- 98. (B) The 52<sup>nd</sup> Constitutional Amendment of 1985 amended articles 101, 102, 190 and 191; and inserted Schedules 10 to the Constitution of India. It dealt with the Anti Defection Law and provided disqualification of members from parliament and assembly in case of defection from one party to other.

99. (D) Curzon introduced some reforms in agriculture. He passed the Punjab Land alienation Act of 1902. Under this act Curzon declared that the land of agriculture will not be transferred to non-agriculturist. In this way he protected the farmers from money lender class.

$$\mathbf{h}_1 \times \mathbf{\rho}_1 = \mathbf{h}_2 \times \mathbf{\rho}_2$$
 (given  $\mathbf{\rho}_1 = 900$ )

$$h_1 = \frac{h_2 \times \rho_2}{\rho_1} = \frac{4.5 \times 1000}{900} = 5m$$

$$A = \frac{w}{p} = \frac{1300}{150} = 8.66m^2$$

145.(A) B = 120 Day D = 1400 heet/cumec  $\Delta$  = ?

$$\therefore \Delta = \frac{8.64 \times B}{D}$$
$$= \frac{8.64 \times 120}{1400}$$
$$= 0.740 \text{ mm}$$

162.(B) 
$$n = \frac{e}{1+e}$$
  
 $n = \frac{0.9}{1+0.9}$   
 $= \frac{0.9}{1.9} = 0.473$ 

175.(C) Maximum deflection on B

$$=\frac{w}{3EI}\times\left(\frac{L}{2}\right)^3$$

Deflection on free end

$$= \frac{wL^3}{24EI} + \left(\theta \times \frac{L}{2}\right) (\theta = \text{slope of point B})$$
$$= \frac{wL^3}{24EI} + \frac{w}{2EI} \times \left(\frac{L}{2}\right)^2 \times \frac{L}{2}$$
$$= \frac{5wL^3}{48EI}$$
187.(C) J = 29  
n = ?  
n = 2 L - 3

= 
$$2 \times 29 - 3 = 55$$
  
198.(D)  $\mu = 0.15$   
mg = R = 20KN  
F =  $\mu$ R = 0.15 × 20 = 3KN

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