KD Campus Pvt. Ltd

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

K. Campus

Answer-key & Solution

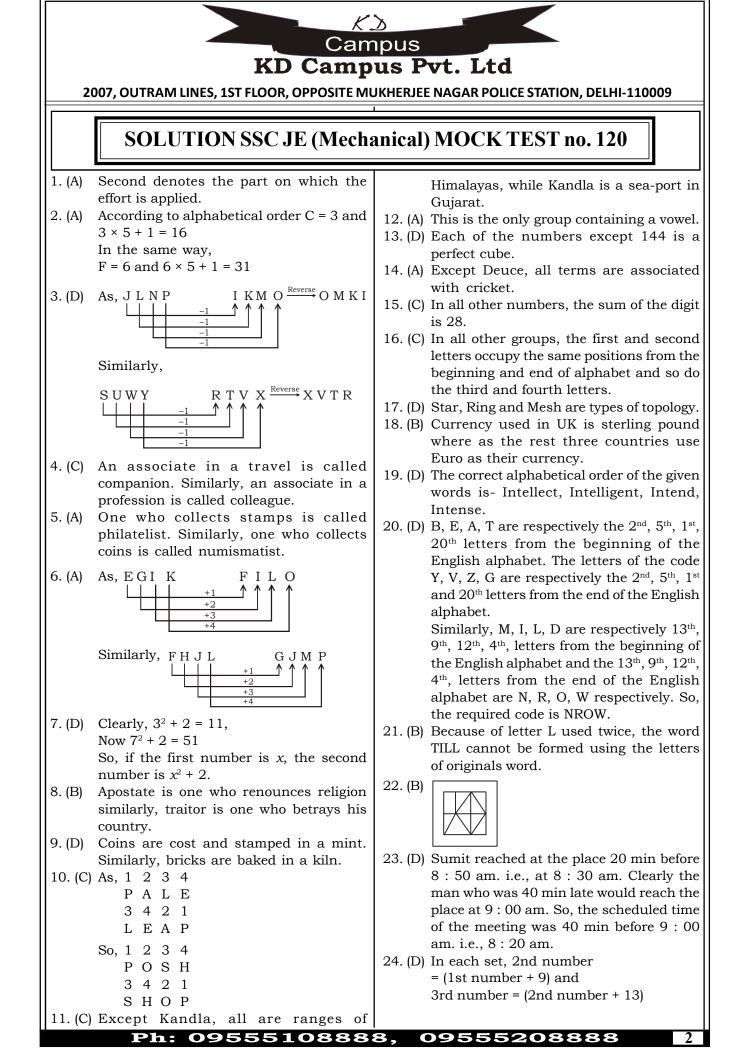
SSC JE (Mechanical) MOCK -(120) Date 28.10.2017

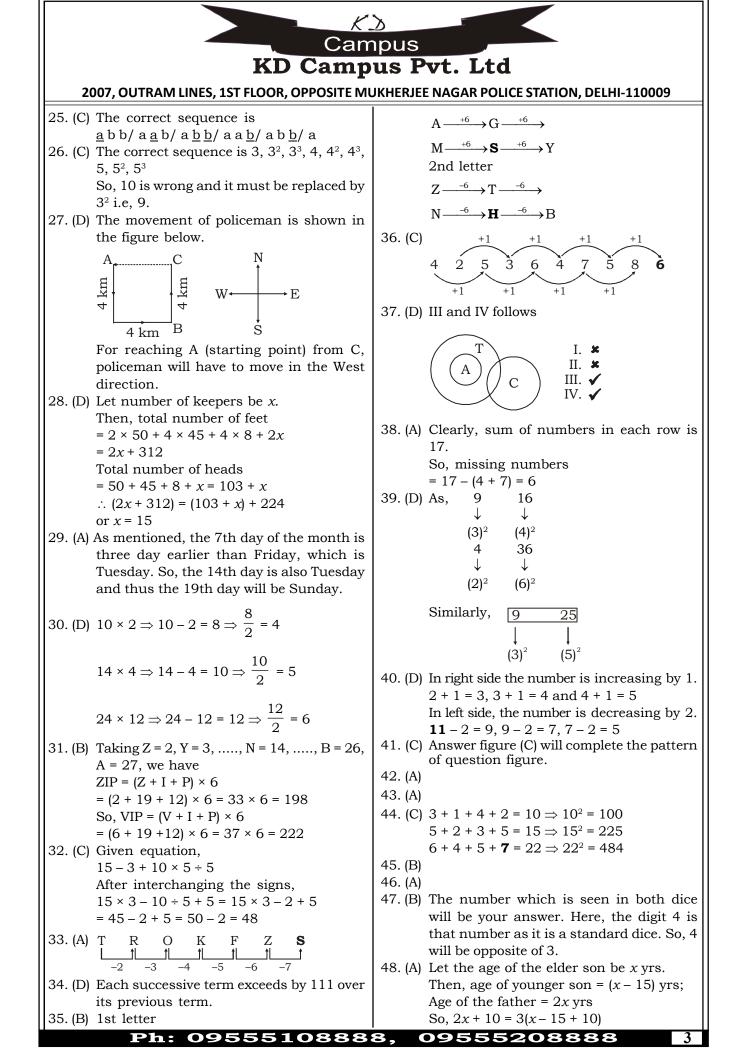
1. A 2. A 3. D 4. C 5. A 6. A 7. D 8. B 9. D 10. C 11. C 12. A 13. D 14. A 15. C 16. C 17. D 18 B	26. C 27. D 28. D 29. A 30. D 31. B 32. C 33. A 34. D 35. B 36. C 37. D 38. A 39. D 40. D 41. C 42. A 43. A	51. A 52. A 53. B 54. C 55. A 56. A 57. A 58. D 59. A 60. C 61. C 62. A 63. C 64. B 65. A 66. A 67. A 68. A	 76. A 77. A 78. D 79. A 80. A 81. A 82. B 83. C 84. A 85. D 86. C 87. B 88. B 89. B 90. A 91. B 92. B 93. B 	101 A 102 A 103 B 104 D 105 A 106 C 107 C 108 D 109 A 110 C 111 B 112 A 113 A 114 A 115 C 116 D 117 C 118 D	126 D 127 C 128 C 129 C 130 C 131 D 132 C 133 A 134 C 135 B 136 A 137 D 138 B 139 C 140 B 141 A 142 B	151 D 152 B 153 B 154 D 155 D 156 D 157 D 158 D 159 D 160 C 161 B 162 C 163 A 164 A 165 C 166 D 167 D	1776 B 1777 D 1778 C 1779 B 1800 A 1811 C 1822 D 1833 A 1842 B 1855 B 1865 C 1877 A 1888 A 1899 A 1899 A 1900 A 1911 B 1922 B
15. C 16. C	40. D 41. C	65. A 66. A	90. A 91. B	115 C 116 D	140 B 141 A	165 C 166 D	189 A 190 A 191 B

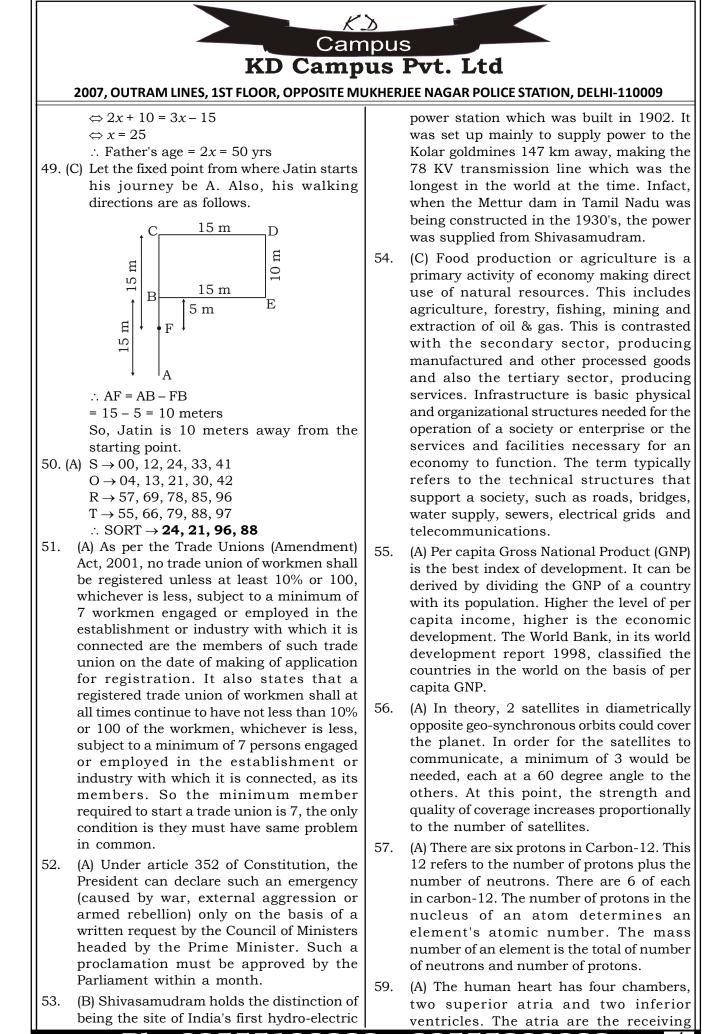
Note : If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353

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

Ph: 09555108888, 09555208888

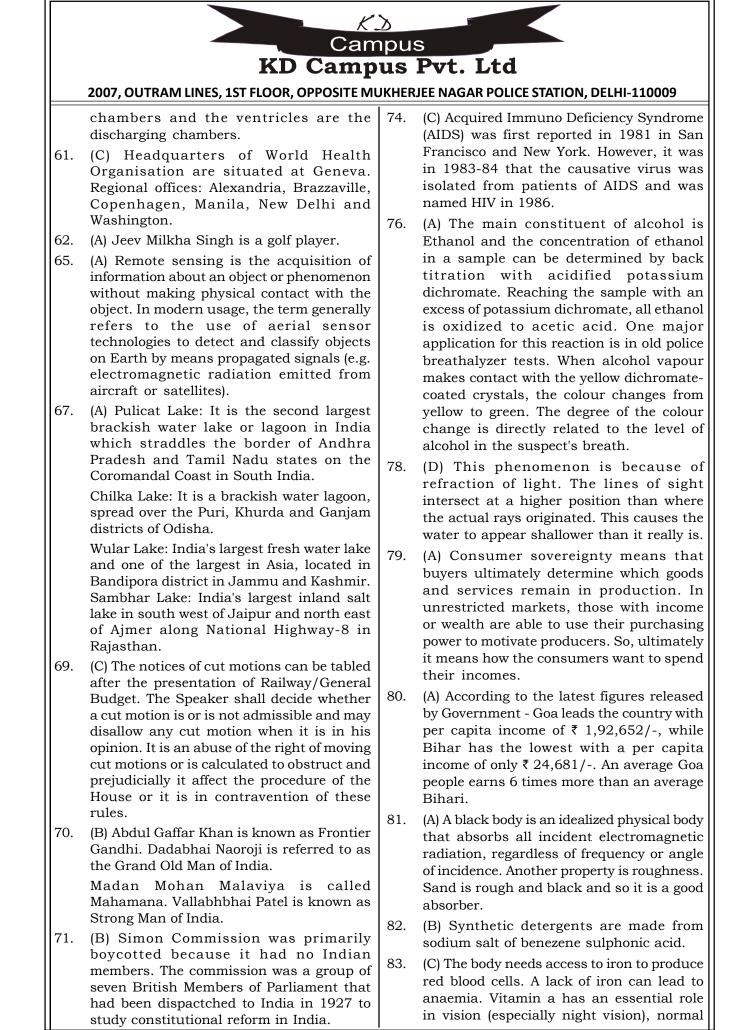






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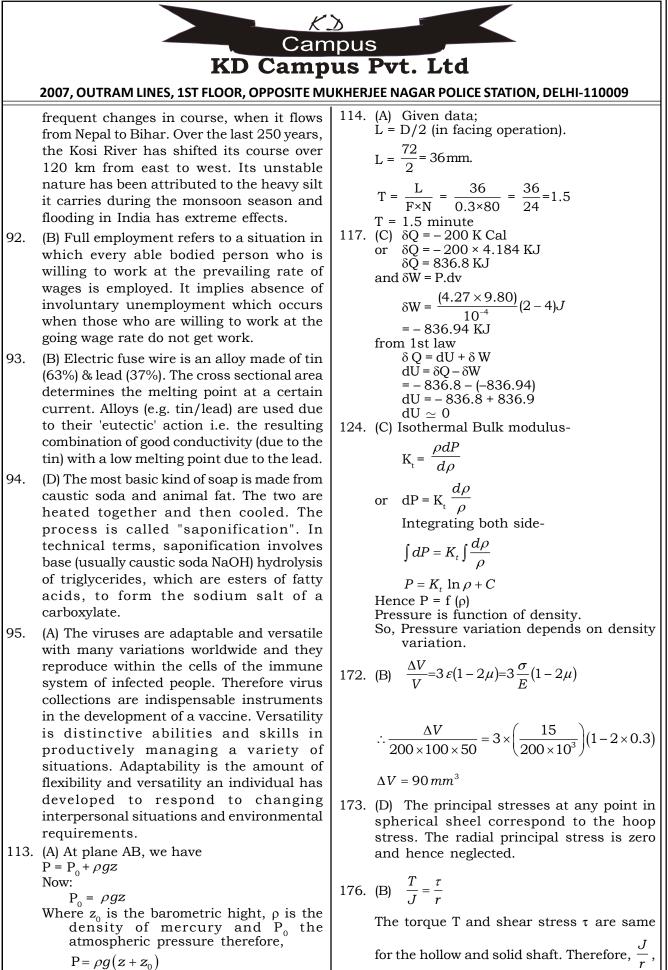
bone growth, reproduction and the health of skin and mucous membranes. It also acts as an antioxidant, protecting the body from harmful free radicals which may help to reduce the risk of certain forms of cancer. Vitamin C is needed for normal growth and development, growth and repair of tissues within the body, formation of collagen, cartilage, bones and teeth and wound healing. A deficiency can result in scurvy. This cause muscle weakness, joint pain and problems with wound healing. It can also lead to loose teeth, bleeding and swollen gums, easily bruised skin and fatigue and sometimes depression. Having too little calcium in the diet increases risk of a hormone condition that can cause bone fractures and kidney stones. Primary hyperparathyroidism (PHPT) affects around one in 800 people during their lifetime and is most common in the post-menopausal women.

- 84. (A) The epicenter is the point on the Earth's surface that is directly above the hypocenter or the focus, the point where an earthquake or underground explosion originates. In the case of earthquakes, the epicenter is directly above the point where the fault begins to rupture and in most cases, it is the area of greatest damage. However, in larger events, the length of the fault rupture is much longer and damage can be spread across the rupture zone.
- 85. (D) In concept social justice is very well articulated in the Constitution of India (1950). The Preamble of our Constitution use the term 'social justice - social, economic and political, the equality of status and opportunity is provided by the Constitution makers for futuristic development of the country.
- 86. (C) It was written by Mohammad Iqbal and published on August 16, 1904 in the weekly journal Ittehad. It became an anthem of opposition to the British rule in India.
- 87. (B) The Constitution declares India to be a sovereign, socialist, secular democratic republic, assuring its citizens of justice, equality and liberty and endeavours to promote fraternity among them. The words "socialist" and "secular" were added to the definition in 1976 by the 42nd constitutional amendment. The word 'secular', though

was specifically added in the Preamble in the year 1976, yet the original spirit of the Constitution was completely secular in nature. Its insertion into the Preamble has ensured that secularism has now become a source from which the constitutional provisions on secularism draw their authority and it has now become the central object which the Constitution seeks to establish. It is also one of the basic structures of our Constitution and no compromise can be made on this by any government.

- 88. (B) In the 16the century, a major road running across the Gangetic plain was built a fresh by Pashtun emperor Sher Shah Suri, who then ruled much of northern India. His intention was to link together the remote provinces of his vast empire for administrative and military reasons. The Sadak-e-Azam (great road) as it was then known is universally recognized as having been the precursor of the Grand Trunk Road. The road was initially built by Sher Shah to connect Agra, his capital, with Sasaram, his hometown. It was soon extended westward to Multan and eastward to Sonargaon in Bengal (now in Bangladesh).
- 89. (B) Energy enters an ecosystem by being used to convert low-energy carbon dioxide into high-energy carbohydrate, then passes through one or more of the organisms of the community and is then lost to the ecosystem. Eventually, all of the energy that enters the ecosystem is lost in the form of heat.
- 90. (A) Dr. Ambedkar attended all the three Round Table Conferences in London and each time, forcefully projected his views in the interest of the 'untouchable'. He exhorted the downtrodden sections to raise their living standards and to acquire as much political power as possible. He was of the view that there was no future for untouchables in the Hindu religion and they should change their religion if it is needed. In 1935, he publicly proclaimed, "I was born a Hindu because I had no control over this but I shall not die a Hindu".

91. (B) Kosi is known as the "Sorrow of Bihar", as it has caused widespread human suffering in the past due to flooding and very



i.e., polar modulus of section should also be same.

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 $= 13,640 \text{ kg/m}^3 \times 9.8 \text{ m/sec}^2 \times (0.562)$

 $= 177 \times 10^3 \text{ N/m}^3 = 1.77 \text{ bar}$

+0.761)

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177. (D)
$$T = Ak^3$$
; $k = \sqrt{\frac{T}{A}} = \sqrt{\frac{|b| \times |b|^2 / 1|2}{|b|^2}}$
 $k = \frac{b}{\sqrt{12}} = \frac{40}{\sqrt{12}} = 11.55 \text{ mm}$
For both ends fixed $L_e = \frac{b}{2} = \frac{4}{2} = 2m$
 \therefore Slenderness ratio $= \frac{L}{k} = \frac{2 \times 10^3}{11.55} = 173.16$
180. (A) Let energy at biginning = F_1
and speed at beginning = F_1
and speed at beginning = F_1
 $R = here at a = N_2$
 $R = here at at e = n_2$
 $R = here at a = n_2$