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SOLVED PAPER : SSC CAFE, SI, CSE, ASI & Delhi Police ASI Exam

80. (2) When the resultant of all forces acting on a particle is zero, the particle is in equilibrium. The equilibrium of a particle to which a single force is applied may be maintained by the application of a second force equal in magnitude and direction, but opposite in sense, to the first force. This second force, which restores equilibrium, is called the equilibrant.

81. (1) The conditions to execute simple harmonic motion are: (i) There must be an elastic restoring force acting on the system, (ii) The system must have inertia, and (iii) The acceleration of the system should be directly proportional to its displacement and is always directed to mean position.

82. (1) The pin or needle floats because of an incompressible elastic skin on the surface of the water. This elastic skin is called surface tension. Surface tension of the water leads to forces strong enough to support the needle's weight.

83. (1) Cyberphile refers to a person who loves computers, internet and electronic gadgets. However, not all are the correct word for a person who spends a lot of time online exploring the internet. Internet addiction is a serious condition for parents and families.

84. (2) According to the Internet World State, the top languages in the internet in the year 2010 were English, Chinese, Spanish, Japanese and Portuguese.

85. (2) While phosphorus is kept under water because it reacts with oxygen but not water. Besides, it is insoluble in water. It presents a significant hazard due to its extreme reactivity with atmospheric oxygen.

86. (1) The wire of flash bulbs is made up of magnesium. Magnesium filaments are contained in bulbs filled with oxygen gas, and electrically ignited by a contact in the camera shutter.

87. (2) When $\Delta G < 0$, a process is spontaneous, when $\Delta G = 0$ the system is at equilibrium, and $\Delta G > 0$ has the reverse direction spontaneous. It is a form of energy that tends to reach a minimum for any spontaneous process at constant T and P. When $\Delta G < 0$ (spontaneous processes), ΔG is equal to the maximum work that can be obtained from the process.

88. (2) The potential energy is inversely related to size. Alpha particles, being the largest, penetrate the least. Gamma rays are the most penetrating of the radiations. They are highly energetic waves and are poor at ionising other atoms or molecules.

89. (1) The guard cells in stomata are kidney shaped and dumb-bell shaped. When guard cells expand on the outer edge of the stomata, but not on the inner side, they result in kidney-shaped cells, leading to an opening or pore between the guard cells for gas exchange.

90. (2) Guard cells are dumb-bell shaped in monocots such as wheat. The central portion of the guard cells in wheat is narrow and two cells are bulbous. Guard cells are surrounded by adjacent subsidiary cells.

91. (2) According to the K. J. Somaiya Group of Institutions, the most common names of the cells around them as they produce ATP due to photosynthesis and become hyper-tonic. This leads to absorption of water from nearby cells by endosmosis due to which the guard cells become turgid and the stomata opens. Decreased light intensity and phytochrome causes Stomatal Closing.

92. (4) There are four main naturally occurring gases that are responsible for the Greenhouse Effect: water vapour, carbon dioxide, methane and nitrous oxide. Of these gases, water vapour has the largest effect as it causes about 36-70% of the greenhouse effect on Earth.

93. (1) K. J. Somaiya has been the Deputy Chairman of Rajya Sabha since August 2012. He succeeded K. Ramesh Kumar. He belongs to the Congress party.

94. (2) State-owned Nuclear Power Corporation of India Limited (NPCIL) is setting up a 2,800 megawatt (MW) nuclear power plant between the villages of Kunthara and Gorakhpur in the Panchajanya district of Haryana. It will be Haryana's first nuclear power plant.

95. (2) The Reserve Bank of India (RBI) has introduced a coin devoted to Bhabha Singh's birth anniversary with his picture on one side of the coin with the words "Bhabha Singh Birth Centenary". Earlier a set of Rs 100 and Rs 5 commemorative coins was introduced in 2010 but only as a souvenir.

96. (4) Bullseye is a shooting sport in USA and Canada in which participants shoot handguns at paper targets at fixed distances and time limits. Emphasis is on accuracy and precision.

97. (1) The question has two correct options. According to Article 84 and Article 79 of the Constitution of India, the Prime Minister of India should be above 25 years of age if he is a member of Lok Sabha or above 30 years of age if he is a member of the Rajya Sabha.

98. (2) The World Media Summit was held in Moscow, Russia in July 2012. It was dedicated to problems journalists all around the world have to face in their countries. The theme of the summit was economic crisis and new media.

99. (1) Kerala has been described as "God's own Country", a phrase used in to describe

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