PART 03 C M L ENGINEERING AND GEOINFORMATICS

(Answer ALL questions)

mix

- 76. The acceleration of a particle moving along the circumference of a circle with a uniform speed is directed
 - 1. radially
 - 2. tangentially a t the point
 - **3.** away from the center
 - 4. towards the center property
- 77. The inherent of a body which offers reluctance to change its state of rest or uniform motion is
 - 1. weight
 - 2. mass
 - 3. inertia
 - 4. momentum
- 78. A satellite goes on moving along its orbit round earth due to
 - 1. gravitational force
 - 2. centrifugal force
 - 3. centripetal force
 - 4. none of the above
- 79. Stress in a beam due to simple bending is
 - 1. directly proportional
 - 2. inversely proportional
 - 3. curvilinearly released
 - 4. none of the above
- 80. The phenomenon of slow growth of strain under a steady tensile stress is called
 - 1. yielding
 - 2. creeping
 - 3. breaking
 - 4. none of the above
- 81. Vicats apparatus is used to perform the test of
 - 1. finess
 - 2. setting time
 - 3. consistency
 - 4. compressive strength

- 82. For M 150 concrete, according to I.S. specification local bond stress is kg/cm²
 - $\frac{1}{2}$. $\frac{5}{\text{kg/cm}^2}$
 - 10 kg/cm²
 - 3. 15 kg/cm^2
 - 4. 20
- 83. A prestressed concrete member is
 - ande of concrete
 - stressed
 - 3. made of reinforced concrete
 - 4. none of the above
- 84. A column splice is used to increase
 - 1. length of
 - 2. strength of column column
 - **3.** cross sectional area of
 - 4. none of the above
- 85. The stress in the wall or a thin cylinder subjected to internal pressure is
 - 1. hoop compression
 - 2. shear
 - torsional shearhoop tension
- 86. The inventor of the term soil mechanic was
 - 1.
 - 2. Dr. Karl Terzaghi Laygue
- 4. Fellenius
- 87. **P**ycrometer is used to determine
 - 2. void ratio
 - dry density
 - 3. watercontent
 - 4. density index

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- co-efficient of compressibility of soil is
 - 1. stress to strain
 - 2. strain to stress
 - 3. stress to settlement
 - 4. rate of loading to t h a t of settlement
- 89. The ultimate bearing capacity of soil is
 - 1. total load on the bearing area
 - 2. safe load on the bearing area
 - **3.** load a t which soil fails
 - 4. load a t which soil consolidates
- 90. Under reamed piles are generally
 - 1. driven piles
 - 2. board files
 - 3. precast piles
 - **4.** all of the above
- 91. The unit of Kinematic viscosity is
 - 1. m^2/sec
 - 2. newton sec per m
 - 3. newton $\sec^2 per m^3$
 - 4. m² per see
- 92. From a nozzle exposed to atmosphere, the liquid jet traverses along
 - 1. a straight line
 - 2. a circular path
 - 3. an elliptical path
 - **4.** a parabolic path
- **93.** The standard height of a standard rain gauge
 - is 10 cm
 - 1.
 - 2. 20 cm
 - 3. 30 c m
 - **4.** 50 cm

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- 94. The formula $V = 400 \, 1^{-(D_{10}^2)} / 4$ used for determining the velocity of groundwater flow in meter per day is known a s
 - 1. Meinzer's formula
 - 2. Slichter's formula
 - 3. Darcy's formula
 - 4. Hazen's formula
- 95. For the estimate of high floods in fan shaped catchment, the formula used is
 - 1. Dicken's formula
 - 2. Ryves formula
 - 3. Inglish formula
 - **4.** None of the above
- **96.** A circular sewer section is preferred to other shapes because
 - 1. it is cheaper in construction
 - 2. it provides a maximum area for a given perimeter
 - 3. it provides maximum hydraulic mean depth
 - 4. all of the above
- 97. The coagulant widely used for sewage treatment is
 - 1. alum
 - 2. ferricchloride
 - **3.** ferric sulphate
 - 4. chlorinated sulphur
- **98.** The maximum pressure to which a pipe is subjected to during its operation is known a s
 - 1. working pressure
 - 2. design pressure
 - **3.** test pressure
- 99. For controlling the algae, the most commonly used chemical is
 - 1. copper sulphate
 - 2. alum
 - 3. lime
 - 4. bleaching powder

From www.JbigDeaL.com Powered By © JbigDeaL most commonly used chemical for 100. The 106. If no super evaluation is provided on a road dechlorination of water is along curves pot holes may develop a t 1. sodium thiosulphate 1. Inner edge of the road 2. sodium bisulphate 2. Outer edge of the road 3. sodium sulphate 3. Centre of the road 4. all of the above 4. No where on the road 101. The boundary of water of a still lake, represents a 107. The length of transition curve is governed by level surface 1. rate of change of radial acceleration 1. 2. horizontal surface 2. rate of change of super-elevation 3. contour line concave surface 4. 3. 4. neither (1) nor (2) 102. Removal of parallax may be achieved by 1. refocusing the objective 108. The basic formula for the determination of 2. refocusing the eye-piece thickness of pavements was first suggested 3. refocusing the objective and eye piece by 4. none of the above Spanglar 1. 103. International date line is located along 2. Picket 1. Standard meridian 3. Kelly 2. Greenwich meridian 4. Gold beck 3. Equator 109. Maximum wheel base distance provided on 180° longitude 4. Indian B.G. track is 104. The position of the sun when its north 4.096 m 1. declination is maximum is known as 1. Vernal equinox 2. 5.096 m 2. Autumnal equinox 3. 6.096 m 3. Summer solstice 7.096 m 4. 4. Winter 110. The spike commonly used to fix rails to dog spike 105. Triangulation surveys are carried out for providingwooden sleepers in Indian railway is

1.

2.

3.

4.

12

screw spike

round spike

all of the above

1.

2.

3.

4.

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planimetric control

none of the above

both planimetric and height control

height control

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- photographic base (B) flying height (H) and the focal length (G) of a vertical photograph is
 - 1. B = bH/f
 - 2. $\mathbf{B} = \mathbf{f}/\mathbf{bH}$
 - 3. B = b / fH
 - 4. B = H/bf
- 112. The rotation of the aircraft about axis is designated by the letter
 - 1. 'w' is sometimes called 'roll'
 - 2. 'D' is sometimes called 'pitch'
 - 3. 'z' is sometimes called 'swing'
 - 4. none of the above
- 113. The satellite launched by USA is
 - 1. IRS 1C
 - 2. SPOT
 - s. ERS
 - 4. Landsat
- 114. The spatial resolution of IRS IC PAN satellite data is
 - 1. 23.5 m
 - 2. 36.25 m
 - **3.** 5.8 m
 - 4 20 m
- 115. During the cloud, the satellite sensor used to take observation is
 - 1. optical sensor
 - 2. microwave sensor
 - 3. both optical and microwave sensor
 - 4. none of the above

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- 116. The vector data base structure used in GIS i
 - 1. Network database structure
 - 2. Hierarchical data structure
 - **3.** relational data base structure
 - 4. all of the above
- 117. Data used to study the details of data available in GIS environment is called
 - 1. relational data base
 - 2. oracle
 - 3. meta data
 - 4. Informix
- 118. The input device used to enter the data in GIS environment is
 - 1. scanner
 - 2. digitizer
 - 3. key board
 - 4. all of the above
- 119. GIS is used for
 - 1. urban planning
 - 2. utility planning
 - 3. disaster management
 - 4. all of the above
- 120. The two data models used in GIS are
 - 1. TIN model and grinded DEM
 - 3. Raster and vector
 - 4. None of the above