14 — GEO-INFORMATICS

(Answer ALL questions)

- 56. The function of transforming the distorted image coordinate to a specific map projection is called as
 - 1. Georeferencing
 - 2. Cartography
 - 3. Image enhancement
 - 4. Stereo plotting
- 57. The geographic information together with image data in a unified and well defined way can be stored in which of the following file format?
 - 1. Super structure
 - 2. Fast
 - 3. GeoTIFF
 - 4. HDF
- 58. The frequency of tonal change on the image is called as
 - 1. Pattern
 - 2. Texture
 - 3. Tone
 - 4. Shape
- 59. The spatial resolution of satellite imagery is not influenced by
 - 1. Modulation Transfer Function
 - 2. Scene noise
 - 3. Contrast ratio
 - 4. Saturation radiance
- 60. The cone angle within which incident energy is focused on the detector is called as
 - 1. Field of view
 - 2. Instantaneous field of view
 - 3. Angle of view
 - 4. Instantaneous angle of view
- 61. The spatial resolution of Cartosat 2 PAN image is
 - 1. 1 m
 - 2. 2.6 m
 - 3. 6 m
 - 4. 13 m

- 62. What is the measure of the radiant flux unit area?
 - 1. Radiant power
 - 2. Radiance
 - 3. Irradiance
 - 4. Radiant intensity
- 63. Depending on the relative value of red and reflectance, NDVI vary from
 - 1. 0 to 100
 - 2. 0 to 1
 - 3. -1 to 1
 - 4. -100 to 100
- 64. The radiation from the sun is a combinati of
 - 1. Electric and magnetic waves in to mutually perpendicular planes
 - 2. Electric and magnetic waves in to mutually parallel planes
 - 3. Labert and Planck waves in to mutually perpendicular planes
 - 4. Labert and Planck waves in two mutually parallel planes
- 65. The technology uses the pulses of laser lig directed towards the ground and measuring the time of pulse return is
 - 1. Pulsor
 - 2. Lidar
 - 3. Lasor
 - 4. Radar
- 66. Location-Allocation modelling is a
 - 1. A method of matching supply wit demand across a network by locating limited set of resources using networ analysis
 - A method of allocating resources within an area of interest using buffer analysis
 - 3. A method of site location based o overlaying multiple siting criteria map
 - 4. A method within network analysis use to determine delivery routes



- 67. A Gravity model is used in GIS to
 - 1. Compute the relative attractiveness of centres of supply relative to demand
 - 2. Predict the attraction of Earth Core on Surface Features
 - Determine the land prices based on travel times
 - 4. Map the density of the Earth's crust
- 68. AM/FM terminology used in GIS stands for
 - Automatic Mapping and Form Management
 - 2. Automated Mapping and Facilities
 Management
 - 3. Automated Maintenance and Facilities
 Management
 - 4. Automatic Maintenance and Form Management
- 69. Accuracy can be defined as
 - 1. The extent to which a value approaches its true value
 - 2. The overall quality of the data
 - 3. The level of detail at which data is stored
 - 4. The lack of bias in the data
- 70. Sliver Polygons are the
 - Small polygons that are created from digitizer spikes
 - 2. Small polygons added in the editing process by mistake
 - 3. Long, narrow polygons resulting from re-registering the map document between digitizing sessions
 - 4. Long, thin polygons created when overlaying a common boundary that has been digitized twice

- 71. What magnitude of error might be expected if a map at 1:50,000 scale is digitized to an accuracy of ±0.5mm?
 - 1. ± 25 metres
 - 2. ± 12.5 metres.
 - 3. ± 100 metres.
 - 4. ± 50 metres.
- 72. Which of the following shapes will not tessellate a plane?
 - 1. Rectangles
 - 2. Regular hexagons
 - 3. Equilateral triangles
 - 4. Equal radius circles
- 73. Snow areas appear in colour in visible region
 - 1. Black
 - 2. Blue
 - 3. Gray
 - 4. White
- 74. Waterlogged comes under
 - 1. Inland natural wetlands
 - 2. Inland manmade wetlands
 - 3. Coastal natural wetlands
 - 4. Coastal manmade wetlands
- 75. Indian coral reefs are not found in the coast of
 - 1. Kerala
 - 2. Maharashtra
 - 3. Lakshwadweep Islands
 - 4. Andaman and Nicobar Islands

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- Ocean colour can be monitored using sensor.
 - 1. LISS
 - 2. CARTOSAT
 - 3. AVHRR
 - 4. SEAWiFs
- 77. In a stereo model comprised of two overlapping vertical aerial photographs, what is the minimum number of vertical control points needed to orient the model?
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four
- 78. Model in stereo plotters must be geo referenced to the ground for measuring in three consecutive steps
 - 1. Interior, Relative and Absolute orientation
 - 2. Exterior, Relative and Absolute orientation
 - 3. Interior and Absolute orientation
 - 4. Interior, Relative and Interior orientation
- 79. The C factor is a traditional expression of
 - 1. Horizontal compilation accuracy
 - 2. Vertical compilation accuracy
 - 3. Horizontal and vertical compilation accuracy
 - 4. Angular accuracy
- 80. The focal length which produces an overall mean distribution of radial lens distortion is
 - 1. Equivalent focal length
 - 2. Average radial lens distortion
 - 3. Calibrated focal length
 - 4. Raw focal length

- 81. The ground area covered by a stereoscop model of a vertical photograph format 200 mm × 200 mm on scale 1:10,000 havir end overlap 60% and side overlap 30% is
 - 1. 2.40 sq.km
 - 2. 4.00 sq.km
 - 3. 1.20 sq.km
 - 4. 0.72 sq.km
- 82. A Thematic Layer is
 - . A method used in cartography produce mathematically accura projection
 - A map portraying a particular featu that is used in map
 - Used in GPS System to promote mo accurate navigational information
 - Used as a method to analyse themat regions
- 83. Lines of Longitude
 - 1. Never meet
 - 2. Begin at Equator
 - 3. All referred as parallel
 - 4. Intersect at poles
- 84. Map Projections attempt to correct for erro
 - 1. Area, Distance, Scale and Proportion
 - 2. Area, Distance, Shape and Direction
 - 3. Distance, Proximity, topology
 - 4. Distance, Shape and Lines of Latitu and Longitude
- 85. WMS Stands for
 - 1. Web Map Service
 - 2. Wireless Map Service
 - 3. Web Message Service
 - 4. Wireless Mobile Service



- 86. OGC Stands for
 - 1. Open GeoSpatial Consortium
 - 2. Open Geo Consortium
 - 3. Open GIS Consortium
 - 4. Open Geology Consortium
- 87. The highly precise latest theodolite available in the market is
 - 1. Vernier theodolite
 - 2. Micrometer theodolite
 - 3. Micro-optic theodilite
 - 4. Digital theodolite
- 88. The Analectic lens fitted inside telescope of a tacheometer reduces the value of
 - 1. Additive constant
 - 2. Multiplying constant
 - 3. Negative constant
 - 4. Reflector constant
- 89. The ideal well conditioned triangle, to be used in triangulation survey is
 - 1. Plane triangle
 - 2. Spherical triangle
 - 3. Equilateral triangle
 - 4. Isosceles triangle
- 90. A curve introduced between a straight and a circular curve is
 - 1. Compound curve
 - 2. Reserve curve
 - 3. Combined curve
 - 4. Transition curve
- 91. The expansion for MSL in a hydrographic surveying is
 - 1. Mid sea level
 - 2. Mild sea level
 - 3. Mean sea level
 - 4. Moderate sea level

- 92. Inspite of repeated adjustments, the plate bubble of a total station is not at its centre of run. Hence the instrument requires to have
 - 1. Least square adjustment
 - 2. Permanent adjustment
 - 3. Provisional adjustment
 - 4. Temporary adjustment
- 93. The survey station in which an astronomical observation taken is called as
 - 1. Triangulation station
 - 2. Triverse station
 - 3. Laplace station
 - 4. Satellite station
- 94. In SRTM the operating two sets of radar antennas are separated by a baseline length of
 - 1. 60 m
 - 2. 30 m
 - 3. 10 m
 - 4. 60 cm
- 95. The primary goal of TanDEM-X is the generation of
 - Moderate resolution DEM with displacement
 - 2. High resolution global DEM data
 - 3. Global Landslide database
 - 4. None of the above
- 96. The azimuth resolution of Medium Resolution SCANSAR MRS- RISAT product
 - 1. 8 m
 - 2. 18 m
 - 3. 24 m
 - 4. 50 m



97. PPD refers to

- 1. Polarimetric Phase Distance
- 2. Polarimetric Phase Direction
- 3. Polarimetric Phase Decomposition
- 4. Polarimetric Phase Difference
- 98. Identify the condition of the surface for RISAT data when $h=1\,\mathrm{cm}$ and $r=65\,^\circ$ according to Rayleigh criteria
 - 1. Smooth
 - 2. Rough
 - 3. Intermediate
 - 4. Cannot be estimated from the given inputs
- 99. GAGAN stands for
 - 1. GPS Aided Geo Augmented Navigation
 - 2. GPS Augmented Geo Aided Navigation
 - 3. GPS Active Geo Augmented Navigation
 - 4. GPS Arranged GIS Augmented
 Navigation
- 100. Setback operation is a part of
 - 1. Buffer analysis
 - 2. Network analysis
 - 3. Surface analysis
 - 4. None of the above
- 101. Polarization of wave follows
 - 1. Electric Field
 - 2. Magnetic Field
 - 3. Both Electric and magnetic field
 - 4. None of the above

- 102. Bayesian classification principle consider the following components
 - Probability distribution of the selected feature in the entire population
 - 2. Prior probability that the selected feature belongs to the questionable class
 - Conditional probability that the selected feature can be obtained from the questionable class
 - 4. All of the above
 - 103. How many different shades of grey are ther in a colour RGB system in which each RGI image is an 8-bit image
 - 1. 256
 - 2. 128
 - 3. 124
 - 4. 126
 - 104. Resampling is done to apply correction on pixel with respect to its
 - 1. Value
 - 2. Location
 - 3. Both
 - 4. None of the above
 - 105. Image destripping is a
 - 1. Point operation
 - 2. Line operation
 - 3. Local operation
 - 4. Global operation

- 106. One of this can be done without operator's intervention
 - 1. Thresholding
 - 2. Clustering
 - 3. Density Slicing
 - 4. Contrast Stretch
- 107. A multispectral scanner is
 - 1. Non-imaging, scanning
 - 2. Imaging, non-scanning
 - 3. Image plane scanning
 - 4. Object plane scanning
- 108. Morphological filters work with this property of an image object
 - 1. Context
 - 2. Radiometric
 - 3. Geometric
 - 4. Texture
- 109. A standard data product is corrected for
 - 1. Radiometry
 - 2. Geometry
 - 3. Both
 - 4. None of the above
- 110. Leaf Area Index signifies
 - 1. The canopy structure of the vegetation
 - 2. Structure of the leaf
 - 3. Structure of the tree
 - 4. Height of the canopy

- 111. The Soil Moisture available in a catchment can be estimated using
 - 1. ALTM
 - 2. Optical Scanner
 - 3. Microwave Sensor
 - 4. OCM Sensor
- 112. Ocean Colour Monitor is mainly used for the study of
 - 1. Sediment Transport
 - 2. Wave Spectrum
 - 3. Chlorophyll
 - 4. Currents
- 113. Water content in the vegetation can be obtained from
 - 1. Reflectance in wavelength 1.4 μm and 1.9 μm
 - 2. Reflectance in wavelength 2.7 μm
 - 3. 1 & 2
 - 4. Reflectance above 1.3 μm
- 114. Which one of the following methods uses remote sensing for population estimation?
 - 1. Spatial Curve Fitting Method
 - 2. Dwelling Unit Method
 - 3. Component Analysis Method
 - 4. Mathematical Modelling Method
- 115. Accident Analysis requires the use of
 - 1. Topographical Surveys
 - 2. Terrestrial Photogrammetry
 - 3. X Ray Photogrammetry
 - 4. Topomatic Photogrammetry