

**NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.**

<b>Course/Branch</b> : B.E/ CSE	<b>Year / Semester</b> :III/V	<b>Format No.</b>	NAC/TLP-07a.13
<b>Subject Code</b> :OCE552	<b>Subject Name</b> :Geographic Information System	<b>Rev. No.</b>	02
<b>Unit No</b> :5	<b>Unit Name</b> :Applications	<b>Date</b>	30.09.2020

**OBJECTIVE TYPE QUESTION BANK**

<b>S.No</b>	<b>Objective Questions (MCQ /True or False / Fill up with Choices )</b>	<b>BTL</b>
1.	<p>. GIS uses the information from which of the following sources?</p> <p>a) Non- spatial information system b) Spatial information system c) Global information system d) Position information system</p> <p>Answer: b Explanation: Among the various information sources available, GIS chose spatial information system as its source for obtaining the required information for developmental process. This spatial information system serves as a base for different type of works done by the use of GIS.</p>	LT2
2.	<p>Among the following _____ can be expressed as an example of hardware component.</p> <p>a) Keyboard b) Arc GIS c) Auto CAD d) Digitalization</p> <p>Answer: a Explanation: GIS comprises certain key components such as hardware, software, data and user. Hardware consists of the components used in the computer which include a keyboard, monitor, CD-ROM etc.</p>	LT1
3.	<p>Which of the following formats can be used for GIS output?</p> <p>a) DXF b) PDF c) GIF d) HTML</p> <p>Answer: c Explanation: GIS output can be handled with a wide range of formats available. Among them, the most commonly used are GIF, JPEG, TIFF etc., usage of the format depends upon the software used in computer and also its bit performing capacity.</p>	LT1
4.	<p>In the process of GIS, digitalization is done for better output.</p> <p>a) True b) False</p> <p>Answer: a Explanation: Digitalization involves the conversion of the data from raster to vector so that the hardware data can be obtained in software. It can be done either by manual interpretation or by digital scanning.</p>	LT2
5.	<p>Which among the following is not related to GIS software's?</p> <p>a) CAD b) Arc GIS c) Arc View d) STAAD Pro</p>	LT2

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	<p>Answer: d                  Explanation: GIS involves a different procedure which consists of several steps. So it requires a high end processing system and a software, which must adapt to its capability. Among them, STAAD Pro is not used in case of GIS. It is permitted to only structures and its analysis.</p>	
6.	<p>Among the following, which do not come under the components of GIS?                  a) Hardware                  b) Software                  c) Compiler                  d) Data                  View Answer                  Answer: c                  Explanation: GIS consists of certain components which denote the entire process of the system. It comprises hardware, software, user and data. These are having certain features which are accomplished at their stage.</p>	LT2
7.	<p>Data can be shared in the process of GIS.                  a) True                  b) False                  View Answer                  Answer: b                  Explanation: The entire functioning of GIS involves developing a map or detailed analysis of the area taken for development. In this, data can be analyzed but can't be shared. This is one of the major drawbacks in GIS procedure.</p>	LT1
8.	<p>Which of the following acts a benefit of GIS?                  a) Maintaining geo spatial data                  b) Data sharing                  c) Accurate data information                  d) Presence of data retrieval service                  Answer: a                  Explanation: There are a lot of advantages regarding the usage of GIS. They include maintaining geo spatial data, value added products, productivity and efficiency of data, can save time and money etc.</p>	LT1
9.	<p>Which among the following is a server based hardware platform of GIS?                  a) Autodesk Revit                  b) STAAD Pro                  c) Arc GIS                  d) Google-maps                  Answer: d                  Explanation: GIS is a place based information derivative platform, which can have a spatial feature not related to location. There are certain platforms which can have the ability to access the GIS interface. Here, Google Maps is a server based platform and remaining are</p>	LT2

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	offline applications.	
10.	<p>Which of the following doesn't determine the capability of GIS?</p> <p>a) Defining a map b) Representing cartographic feature c) Retrieving data d) Transferring data</p> <p>Answer: d Explanation: Capability of GIS determines its ability to accomplish the work assigned. It can define a map with database, can represent cartographic feature, can store and retrieve data and many more. By doing these, it can act as a source for development of errors.</p>	LT2
11.	<p>Which of the following acts as a key to GIS?</p> <p>a) Topology b) Platform c) Software d) Terrain</p> <p>Answer: a Explanation: Topology acts as a key to GIS, which can access every aspect of GIS. It is accompanied by some set of rules and determines the point, polygon and poly line features.</p>	LT2
12.	<p>Which of the following indicate topological primitive?</p> <p>a) Poly line b) Point c) Node d) Polygon</p> <p>Answer: c Explanation: In GIS, topological primitives are used. Those include nodes, faces and edges. These are defined by representing the feature geometries in a planar graph of a topological element.</p>	LT1
13.	<p>The point data feature can be used to represent _____</p> <p>a) Location b) Area c) 3D area d) Volume</p> <p>Answer: a Explanation: The different data features like point, poly line and polygon can be used to identify different poly graphic features. Among them, the point is used to locate the feature of the object like location.</p>	LT1
14.	<p>The polygonal data feature uses which of the following data format?</p> <p>a) Scientific character b) Math c) Character</p>	LT2

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	<p>d) Integer</p> <p>Answer: d</p> <p>Explanation: The data formats which are generally used in case of GIS are integer, float, and text format. These are selected in the GIS software based on the type of work being carries out.</p>	
15.	<p>Spatial relationship can be established by using GIS.</p> <p>a) False b) True</p> <p>Answer: b</p> <p>Explanation: The usage of GIS involves determining the spatial relationship between the object of our sight. This can be useful in data compilation and also in the analysis of the spatial relationship.</p>	LT2
16.	<p>Which of the following justifies the usage of topology?</p> <p>a) Terrain of the area b) Geometry of the model c) Climatic conditions d) Atmospheric conditions</p> <p>Answer: b</p> <p>Explanation: The topology can be used for having an idea about the geometry of the model, how it can change from feature of the class on integration. This helps in the interpretation of the image.</p>	LT2
17.	<p>Which feature of GIS can share the boundary of the polygon?</p> <p>a) Polygons b) Poly lines c) Dongle nodes d) Silver polygons</p> <p>View Answer</p> <p>Answer: a</p> <p>Explanation: The polygons generated in the GIS software sometimes may share their boundary. This might lead to the creation of silver polygons. In this case, area feature of the polygon will be shared.</p>	LT1
18.	<p>Study of geometric objects will come under the category of _____</p> <p>a) Surveying b) Cartography c) Surface geometry d) Topology</p> <p>Answer: d</p> <p>Explanation: Topology can be determined as the study of geometric objects that remain invariant under major circumstances which include bending and stretching. It can be able to determine the spatial relation between adjacent vector features.</p>	LT1

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<b>19.</b>	<p>Which type of data set is not used in GIS related software's?</p> <p>a) Vertex b) Point c) Poly line d) polygon</p> <p>Answer: a Explanation: Data set plays a major role in the determination of the output developed in the GIS software. Point feature can be used for identification of certain area, poly line for identifying road network, pipe lines and polygon for two-dimensional features.</p>	LT2
<b>20.</b>	<p>Among the available formats, which are most commonly used in case of GIS?</p> <p>a) GIF b) TIFF c) JPEG d) DXF</p> <p>Answer: b Explanation: TIFF format is the most commonly used format in case of GIS. It is because of the fact that most of the computers are equipped with this software and also it can be easily accessed with the help of GIS software. Other software might create any trouble, but this serve at its best.</p>	LT2
<b>21.</b>	<p>Obtaining services from a rapidly evolving group of internet users _____</p> <p>a) Outsourcing b) Crowd Sourcing c) Human collaboration d) Human Computation</p> <p>Answer: b Explanation: Crowd sourcing is the appropriate term which is to be used. Though human collaboration, outsourcing and computation mean the same. Crowd Sourcing means collaboration of a group of internet users for the same purpose.</p>	LT2
<b>22.</b>	<p>Which of the following Techniques are used to optimize field services?</p> <p>a) AI b) ML c) CC d) Reality tools</p> <p>Answer: a Explanation: AI or Artificial Intelligence is optimizing the field services. It ensures that the fastest service is performed by the person in charge. Artificial intelligence is nothing but machine intelligence.</p>	LT1
<b>23.</b>	<p>What is the full form of FSM?</p> <p>a) Field Service Management b) Frequent Service Management</p>	LT1

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	<p>c) Final Service Management d) Field Service Master</p> <p>Answer: a Explanation: FSM is Field Service Management. FSM soft wares are used for making proper use of the digitized information. Therefore, they are basically responsible for digitalization.</p>	
24.	<p>Which of the following is not a part of a digitizer? a) Digitizing tablet b) Cursor c) Stick d) Stylus</p> <p>Answer: c Explanation: A digitizer consists of a digitizing tablet, a stylus in the form of a cross-hair cursor. A digitizer is used in the areas of Geographical Information Systems.</p>	LT2
25.	<p>The process of making digital information work for you is called _____ a) Digitization b) Digital Transformation c) Digitalization d) Analogization</p> <p>Answer: c Explanation: The process of making digitized data or information work for you is called digitalization. The conversion of analog signal to digital signal is called digitization. Digital signals are in the form of 0s and 1s.</p>	LT2
26.	<p>5. Which of the following isn't a phase of digitization? a) Discretization b) Quantization c) Discretization + Quantization d) Analog conversion</p> <p>Answer: d Explanation: There is no phase called analog conversion. Discretization means the reading of an analog signal. Quantization is the rounding of samples to numbers.</p>	LT2
27.	<p>A digitizer converts _____ input into digital input. a) Laser b) Digital c) Analog d) Complex</p> <p>Answer: c Explanation: A digitizer converts analog signals to digital images. Due to this, it is compatible with both scanners and mice</p>	LT1

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<b>28.</b>	<p>Which of the following term is used when different forms of information like text, sound is converted to a binary code?</p> <p>a) Digitalization b) Digitization c) Binarization d) Digization</p> <p>Answer: b Explanation: Digitization is the term that is used. It converts the input which is in the form of an image, sound or text into a binary format and further makes it easier for the computer to understand and process.</p>	LT1
<b>29.</b>	<p>Input Devices that use a special ink that is used for converting pictures, maps and drawings into digital format.</p> <p>a) Digitizers b) Digital pens c) Light Pens d) MICR</p> <p>Answer: a Explanation: The digitizer is used for digitizing pictures, maps and drawings into digital form for storage in computers. It is used in CAD by architects and engineers.</p>	LT2
<b>30.</b>	<p>GIS stands for Graphical Information System.</p> <p>a) True b) False</p> <p>Answer: b Explanation: The statement is false. GIS stands for Geographical Information System. Digitizers are used in the area of GIS for digitizing maps available in paper form.</p>	LT2