**2907M104**

Candidate's Seat No :_____

B.Sc. Sem.-6 Examination

CC - 308

Environmental Science

July 2021

Time : 2-00 Hours]

[Max. Marks : 50

1. (A) Write detailed note on Effluent Treatment Plant (ETP). 7
   (B) Give characteristics of waste generated from tannery industry. 7

2. (A) Explain the concept of CETP. 7
   (B) Give characteristics of waste generated from dairy industry. 7

3. (A) Explain Normal, Poison and Binomial distribution in detail. 7
   (B) Draw bar diagram with comments giving sample data table. 7

4. (A) Discuss Mean, Median and Mode. 7
   (B) Write a short note on usage of SPSS software. 7

5. (A) Write a detailed note on Database concept. 7
   (B) List popular computer Operating Systems. 7

6. (A) Explain Server Client Setup. 7
   (B) Discuss Computer Networks and Internet. 7

7. (A) Explain Remote Sensing and its types with example. 7
   (B) Explain Electromagnetic Spectrum and its reflectance features. 7

8. (A) Explain the process in Remote Sensing. 7
   (B) Write a short note on applications of RADAR. 7

9. Answer in short: (Any **Eight**) 8

1. GIS uses the information from which of the following sources?
a) Non- spatial information system
b) Spatial information system
c) Global information system
d) Position information system

2. Among the following _____ can be expressed as an example of hardware component.
a) Keyboard
b) Arc GIS
c) Auto CAD
d) Digitalization

3. Which of the following formats can be used for GIS output?
a) DXF
b) PDF
c) GIF
d) HTML

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Environmental Science

4. Which among the following is not related to GIS software's?
a) CAD
b) Arc GIS
c) Arc View
d) STAAD Pro

5. Among the following, which do not come under the components of GIS?
a) Hardware
b) Software
c) Compiler
d) Data

6. Which of the following doesn't determine the capability of GIS?
a) Defining a map
b) Representing cartographic feature
c) Retrieving data
d) Transferring data

7. 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

8. Which among the following is a server based hardware platform of GIS?
a) Autodesk Revit
b) STAAD Pro
c) Arc GIS
d) Google-maps

9. Which of the following doesn't indicate a topology error?
a) Polygonal features
b) Gaps between polygons
c) Silver polygons
d) Unclosed polygons

10. Which of the following acts as a source of inaccuracy?
a) Format of data
b) Silver polygon
c) Unclosed polygon
d) Dongle nodes
View Answer

11. Among the errors occurring in GIS, which can cause a drastic change or fail the entire process?
a) Format of data
b) Unclosed polygons

c) Dongle nodes
d) Silver polygons

12. Which of the following is not a category of error?
a) Change in format
b) Areal cover
c) Map scale
d) Density of observation

13. Which of the following can be represented as an example of format error?
a) Silver polygons
b) Dongle nodes
c) Changing from raster to vector
d) Areal cover

14. The figure represents which type of error in GIS?
surveying-questions-answers-errors-gis-q8
a) Pseudo node
b) Silver polygon
c) Dongle node
d) Poly line feature

15. Dongle nodes can be removed by _____
a) Undo
b) Eraser
c) Behind shoot
d) Over shoot

16. What are the various reasons for which DBMS is used
a) A DBMS supports the storage and manipulation of very large data sets
b) A DBMS can be instructed to guard over data correctness
c) A DBMS supports the concurrent use of the same data set by many users
d) All of the above

17. Which of the following is true about DBMS
a) A DBMS provides a high-level, 'declaration query language'
b) A DBMS supports the use of a 'data model'
c) A DBMS allows the control of 'data redundancy'
d) All of the above

18. A 'data model' is a language that allows the definition of
a) The 'structures' that will be used to store the base data
b) The 'integrity constraints' that the stored data has to obey at all moments in time
c) The 'computer programs' used to manipulate the data
d) All of the above

19. GIS stands for
a) Geographic Information System
b) Generic Information System

c) Geological Information System
d) Geographic Information Sharing

20. GIS deals with which kind of data
a) Numeric data
b) Binary data
c) Spatial data
d) Complex data