

Seat No.	
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ENT-08

Total No. of Pages : 16

Entrance Examination, 2026
Department of Geography
M.Sc in Geoinformatics
Subject Code : 96147

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Day and Date : Friday, 15-05-2026

Total Marks : 100

Time : 01.00 p.m. to 02.30 p.m.
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Instructions

- 1) All questions are compulsory
 - 2) Each question carries 1 mark.
 - 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
 - 4) Follow the instructions given on OMR sheet.
 - 5) Rough work shall be done on the sheet provided at the end of question paper.
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1. Which is the largest coral reef system in the world?
 - a) Great Barrier Reef
 - b) Belize Barrier Reef
 - c) Red Sea Coral Reef
 - d) New Caledonia Barrier Reef
2. In GIS, topology refers to:
 - a) The arrangement of features and their spatial relationships
 - b) Thematic map types
 - c) Map projection methods
 - d) Pixel size in raster data
3. Which renewable resource is generated from plant and animal waste?
 - a) Geothermal
 - b) Biomass
 - c) Tidal
 - d) Wind
4. A multispectral sensor captures:
 - a) One wavelength band
 - b) Several discrete wavelength bands
 - c) All wavelengths at once
 - d) Only infrared bands

5. Who is the current Prime Minister of the United Kingdom (2025)?
 - a) Boris Johnson
 - b) Liz Truss
 - c) Rishi Sunak
 - d) Theresa May
6. The Sun Temple at Konark is located in:
 - a) Odisha
 - b) West Bengal
 - c) Gujarat
 - d) Rajasthan
7. Which of the following is NOT an output device?
 - a) Plotter
 - b) Speaker
 - c) Projector
 - d) Joystick
8. The meeting point of two rivers is called:
 - a) Tributary
 - b) Confluence
 - c) Delta
 - d) Estuary
9. In email, "CC" stands for:
 - a) Carbon Copy
 - b) Computer Communication
 - c) Common Contact
 - d) Central Control
10. Which country has the highest population density?
 - a) Bangladesh
 - b) India
 - c) Japan
 - d) Netherlands
11. Which famous archaeological site is located in Jordan?
 - a) Petra
 - b) Egypt
 - c) Turkey
 - d) Greece
12. Wi-Fi uses which type of signals?
 - a) Infrared
 - b) Radio waves
 - c) X-rays
 - d) Microwaves only

13. In GIS, attribute data refers to:
 - a) The physical location of features
 - b) Descriptive information about features
 - c) Satellite orbit data
 - d) Coordinate system parameters
14. Which planet is known as the "Morning Star" or "Evening Star"?
 - a) Mars
 - b) Venus
 - c) Mercury
 - d) Jupiter
15. Which file extension is commonly used for shapefiles?
 - a) .shp
 - b) .tif
 - c) .jpg
 - d) .csv
16. Which of the following is an example of active remote sensing?
 - a) Landsat
 - b) MODIS
 - c) RADAR
 - d) Sentinel-2
17. The Amazon River flows mainly through which country?
 - a) Brazil
 - b) Peru
 - c) Colombia
 - d) Venezuela
18. Which is the largest island in the world?
 - a) Greenland
 - b) New Guinea
 - c) Madagascar
 - d) Borneo
19. Which part of the computer is known as the "brain"?
 - a) RAM
 - b) CPU
 - c) Hard drive
 - d) GPU
20. Hurricanes in the Indian Ocean are called:
 - a) Typhoons
 - b) Cyclones
 - c) Tornadoes
 - d) Willy-willies

21. The Paris Agreement of 2015 aims to limit global temperature rise to:
- a) 1.0°C above pre-industrial levels
 - b) 1.5°C above pre-industrial levels
 - c) 2.0°C above pre-industrial levels
 - d) 2.5°C above pre-industrial levels
22. Which type of remote sensing uses the sun as the source of energy?
- a) Active remote sensing
 - b) Passive remote sensing
 - c) Microwave sensing
 - d) LIDAR
23. The Battle of Plassey was fought in:
- a) 1757
 - b) 1764
 - c) 1857
 - d) 1805
24. The spatial resolution of a satellite image refers to:
- a) Number of bands recorded
 - b) Size of the smallest object detected
 - c) Distance between satellite passes
 - d) Height of the satellite
25. The "Horse Latitudes" are regions of:
- a) Calm winds near 30° N and S
 - b) Heavy rainfall at the equator
 - c) Strong cyclonic activity
 - d) Continuous snowfall
26. Which coordinate system is based on latitude and longitude?
- a) Projected coordinate system
 - b) Geographic coordinate system
 - c) Local coordinate system
 - d) Cartesian coordinate system

27. Which device connects a computer to the internet?
- a) Router
 - b) Switch
 - c) Pen drive
 - d) Printer
28. Which gas is the main cause of the greenhouse effect?
- a) Carbon dioxide
 - b) Oxygen
 - c) Methane
 - d) Nitrogen
29. Which storage device is portable and rewritable?
- a) DVD-ROM
 - b) USB flash drive
 - c) ROM chip
 - d) Floppy disk
30. Which of the following is a tertiary sector activity?
- a) Fishing
 - b) Coal mining
 - c) Tourism
 - d) Agriculture
31. The currency of Japan is:
- a) Yen
 - b) Won
 - c) Yuan
 - d) Ringgit
32. Which phenomenon causes bleaching of coral reefs?
- a) Overfishing
 - b) Ocean acidification and warming
 - c) Tsunamis
 - d) Oil spills
33. In computing, PDF stands for:
- a) Portable Data Format
 - b) Portable Document Format
 - c) Public Document File
 - d) Printed Document File
34. Which is the smallest ocean in the world?
- a) Atlantic
 - b) Arctic
 - c) Indian
 - d) Southern

43. The process by which rocks are broken down in situ without being moved is called:
- a) Erosion
 - b) Weathering
 - c) Deposition
 - d) Transportation
44. Which is NOT a social media platform?
- a) Facebook
 - b) Instagram
 - c) Wikipedia
 - d) Twitter/X
45. Which is the largest freshwater lake by area?
- a) Lake Victoria
 - b) Lake Superior
 - c) Lake Baikal
 - d) Lake Tanganyika
46. Which of these is a disadvantage of raster data?
- a) Easy to overlay
 - b) Large file sizes for high resolution
 - c) Good for continuous data
 - d) Compatible with remote sensing images
47. Which Indian state has the largest forest cover (area)?
- a) Arunachal Pradesh
 - b) Madhya Pradesh
 - c) Chhattisgarh
 - d) Odisha
48. How many degrees does the hour hand move in 2 hours?
- a) 60°
 - b) 30°
 - c) 90°
 - d) 120°
49. Which direction change will make North-East into South-West?
- a) 90° rotation
 - b) 180° rotation
 - c) 270° rotation
 - d) 360° rotation

66. In polar-orbiting satellites, the orbit passes over:
- a) Only the equator
 - b) Both poles of the Earth
 - c) Only the Tropics
 - d) The same point every hour
67. Which is the main cause of ozone layer depletion?
- a) Methane
 - b) Chlorofluorocarbons
 - c) Sulphur dioxide
 - d) Carbon monoxide
68. In a row of 30 students, P is 10th from the left. What is his position from the right?
- a) 19th
 - b) 20th
 - c) 21st
 - d) 22nd
69. Zoom and Microsoft Teams are examples of:
- a) Video conferencing tools
 - b) Antivirus programs
 - c) Graphic design tools
 - d) Search engines
70. Which gas contributes most to ocean acidification?
- a) Oxygen
 - b) Carbon dioxide
 - c) Methane
 - d) Nitrous oxide
71. Which of these is a renewable source of energy?
- a) Coal
 - b) Oil
 - c) Solar
 - d) Natural gas
72. The main energy source used in optical remote sensing is:
- a) Microwave energy
 - b) Solar radiation
 - c) Magnetic field
 - d) X-rays
73. Cache memory is used to:
- a) Increase storage capacity
 - b) Speed up CPU operations
 - c) Store backup files
 - d) Save passwords

81. In GIS, raster data is made up of:
- a) Points and lines
 - b) Pixels arranged in rows and columns
 - c) Coordinates only
 - d) Attribute tables
82. A says to B: "You are my father's sister's son." How is B related to A?
- a) Brother
 - b) Cousin
 - c) Uncle
 - d) Nephew
83. Which is the main predicted consequence of climate change?
- a) Expansion of polar ice
 - b) Increase in extreme weather events
 - c) Decrease in global temperature
 - d) Stabilization of sea levels
84. The RBI stands for:
- a) Reserve Bank of India
 - b) Rural Bank of India
 - c) Registered Bank of India
 - d) Revenue Bank of India
85. The full form of LiDAR is:
- a) Light Detection and Ranging
 - b) Light Data and Reflection
 - c) Laser Detection and Radar
 - d) Long-distance Infrared Data Acquisition
86. Which settlement type is common in hilly areas?
- a) Clustered
 - b) Linear
 - c) Circular
 - d) Grid

- Rough Work -

- Rough Work -