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Total No. of Pages : 18

Pg. Re-Entrance Examination 2025-2026**M.Sc. Geoinformatics****Subject Code : 96147**

Day and Date : Thursday, 10-07-2025**Total Marks : 100****Time : 03.30 pm to 05.00 pm**

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. The currency of Japan is:
 - a) Won
 - b) Yen
 - c) Yuan
 - d) Ringgit
2. The Alps mountain range forms a natural barrier between.....
 - a) France and Spain
 - b) Italy and Slovenia
 - c) Switzerland and Italy
 - d) Germany and Poland
3. In GIS, what is a "datum"?
 - a) A system for classifying spatial data
 - b) A reference point or surface for measuring coordinates
 - c) A map projection
 - d) A type of spatial analysis.

4. The ozone hole refers to seasonal depletion of ozone in the..... layer.
 - a) Troposphere
 - b) Stratosphere
 - c) Mesosphere
 - d) Thermosphere
5. Five friends (K, L, M, N, O) sit in a row. K is not at the ends. M is adjacent to N. O is at the right end. Who is second from the left?
 - a) K
 - b) L
 - c) M
 - d) N
6. If 15th August 2023 is Tuesday, what day is 15th August 2024?
 - a) Thursday
 - b) Wednesday
 - c) Friday
 - d) Sunday
7. Which of the following is an example of raster data?
 - a) Points
 - b) Lines
 - c) A satellite image
 - d) A shapefile
8. The Ring of Fire is a zone of frequent earthquakes and volcanoes encircling the
 - a) Atlantic Ocean
 - b) Indian Ocean
 - c) Pacific Ocean
 - d) Arctic Ocean
9. Which company developed ChatGPT?
 - a) Google
 - b) Meta
 - c) OpenAI
 - d) Microsoft
10. IF PALM" =39 and "TREE" = 60, then "WATER" = ?
 - a) 67
 - b) 72
 - c) 58
 - d) 82

11. Which of the following is NOT a GIS function?
- a) Mapping
 - b) Spatial analysis
 - c) Image editing
 - d) Data visualization
12. Ocean acidification is caused by increased uptake of.....by seawater.
- a) Oxygen
 - b) Carbon dioxide
 - c) Nitrogen
 - d) Sulfur dioxide
13. What is the principal use of LIDAR in remote sensing?
- a) Detecting temperature changes
 - b) Measuring distances to the Earth's surface
 - c) Analyzing chemical composition.
 - d) Monitoring ocean currents
14. The Sundarbans, the world's largest mangrove forest, lies at the delta of the
- a) Ganga and Brahmaputra
 - b) Krishna and Godavari
 - c) Mahanadi and Brahmani
 - d) Narmada and Tapi
15. The Kyoto Protocol is related to:
- a) Ozone Layer
 - b) Climate Change
 - c) Renewable Energy
 - d) Nuclear Energy
16. The term..... topography refers to landscapes formed primarily by chemical dissolution of limestone.
- a) Karst
 - b) Glacial
 - c) Fluvial
 - d) Aeolian

17. The Paris Agreement aims to limit global temperature rise to well below..... above pre-industrial levels.
- a) 1 °C
 - b) 1.5°C
 - c) 2°C
 - d) 3 °C
18. Neeraj Chopra is associated with:
- a) Shooting
 - b) Boxing
 - c) Javelin Throw
 - d) Wrestling
19. Which software helps in browsing the Internet ?
- a) MS Word
 - b) Excel
 - c) Firefox
 - d) Paint
20. The concept of.....describes the migration of highly skilled professionals from developing to developed countries.
- a) Brain drain
 - b) Brain gain
 - c) Transnationalism
 - d) Circular migration
21. What is the primary advantage of using drones (UAVs) in remote sensing?
- a) High spatial resolution
 - b) High spectral resolution
 - c) Constant satellite coverage
 - d) Ability to operate in space
22. Thermometer: Temperature:: Barometer:?
- a) Pressure
 - b) Humidity
 - c) Wind
 - d) Rainfall

23. A is a map type that distorts area to reflect population size or other statistical values..
- a) Choropleth
 - b) Dot-density
 - c) Cartogram
 - d) Isopleth
24. What is a "contour map" in GIS?
- a) A map showing roads and highways
 - b) A map representing elevation levels using lines
 - c) A map showing population density
 - d) A map showing land use types
25. Who was the first woman ruler of India?
- a) Razia Sultana
 - b) Rani Lakshmibai
 - c) Ahilyabai Holkar
 - d) Noor Jahan
26. A computer virus is:
- a) Hardware malfunction
 - b) Medical infection
 - c) Malicious software
 - d) System update
27. Which of the following is NOT a type of vector data?
- a) Point
 - b) Line
 - c) Polygon
 - d) Pixel
28. Which of the following best describes "remote sensing" in GIS?
- a) The process of collecting data from sensors on satellites or aircraft
 - b) The analysis of geographic data
 - c) The process of converting vector data into raster data
 - d) The representation of data on a map

29. The Indo-Gangetic Plain is formed by the alluvial deposits of the Indus, Ganga, and
- a) Krishna
 - b) Godavari
 - c) Brahmaputra
 - d) Mahanadi
30. The primary function of an operating system is to:
- a) Draw pictures
 - b) Manage computer hardware and software
 - c) Print documents
 - d) Store user files only
31. A projected increase in the frequency of extreme heatwaves is an example of a impact of climate change.
- a) Mitigation
 - b) Adaptation
 - c) Variability
 - d) Impact
32. Shortcut for pasting content:
- a) Ctrl + V
 - b) Ctrl+Z
 - c) Ctrl + X
 - d) Ctrl + A
33. Madhubani painting is a traditional art of:
- a) Gujarat
 - b) Maharashtra
 - c) Bihar
 - d) Punjab
34. A firewall is used to:
- a) Cool the computer
 - b) Protect against unauthorized access
 - c) Increase speed
 - d) Display ads

35. Which Indian state is known as the "Land of Five Rivers"?
- a) Punjab
 - b) Haryana
 - c) Rajasthan
 - d) Uttar Pradesh
36. Which of the following is used to store GIS data?
- a) Database Management System (DBMS)
 - b) Spreadsheet software
 - c) Video processing software
 - d) Word processing software
37. IF "BLUE" is coded as 2151221, how is "GREEN" coded?
- a) 7185514
 - b) 718514
 - c) 785114
 - d) 718554
38. The Dandi March was led by?
- a) Jawaharlal Nehru
 - b) Bhagat Singh
 - c) Mahatma Gandhi
 - d) Subhas Chandra Bose
39. A clock loses 5 minutes every hour. What time will it show at 12 PM if it was set right at 6 AM?
- a) 11:00 AM
 - b) 10:30 AM
 - c) 11:30 AM
 - d) 10:45 AM
40. Which of the following is NOT a vector data format in GIS?
- a) Shapefile
 - b) KML
 - c) GeoTIFF
 - d) GeoJSON

41. IF "TRAIN" = 391814, then "PLANE" = ?
- a) 16121145
 - b) 1612145
 - c) 1612114
 - d) 16121154
42. The full form of LAN is:
- a) Local Access Node
 - b) Long Area Network
 - c) Local Area Network
 - d) Line Access Network
43. Linux is a type of:
- a) Programming Language
 - b) Hardware
 - c) Operating System
 - d) Browser
44. Author: Book:: Chef: ?
- a) Kitchen
 - b) Recipe
 - c) Food
 - d) Restaurant
45. Which of the following remote sensing platforms is an example of a passive sensor?
- a) Radar
 - b) LIDAR
 - c) Landsat
 - d) Sonar
46. The largest data unit among the following is:
- a) Byte
 - b) Megabyte
 - c) Gigabyte
 - d) Terabyte

47. What is a "coordinate system" in GIS?
- a) A system that defines the way data is represented in space
 - b) A tool for visualizing spatial data
 - c) A function for converting raster data to vector
 - d) A method for calculating distances.
48. Sensex is associated with:
- a) Gold Price
 - b) Retail Market
 - c) Stock Market
 - d) Commodity Market
49. If "TRAIN" = 391814, then "PLANE" =?
- a) 16121145
 - b) 1612145
 - c) 1612114
 - d) 16121154
50. Which of the following is a commonly used GIS software?
- a) Microsoft Excel
 - b) ArcGIS
 - c) Photoshop
 - d) AutoCAD
51. Which river flows through the Grand Canyon?
- a) Mississippi
 - b) Colorado
 - c) Missouri
 - d) Columbia
52. The abbreviation URL stands for:
- a) Uniform Resource Locator
 - b) Unique Reference Link
 - c) Universal Redirect Language
 - d) Uniform Routing Line

53. Which of the following is not an input device?
- a) Keyboard
 - b) Scanner
 - c) Printer
 - d) Mouse
54. The device that connects computers over long distances is called a:
- a) Switch
 - b) Router
 - c) Hub
 - d) Repeater
55. Which satellite system is used for weather monitoring in India?
- a) Cartosat
 - b) INSAT
 - c) NAVIC
 - d) RISAT
56. What is the chemical symbol for Lead?
- a) Le
 - b) Pb
 - c) Ld
 - d) Pl
57. The most common greenhouse gas emitted by human activities is:
- a) Methane
 - b) Carbon dioxide
 - c) Nitrous oxide
 - d) Ozone
58. Which of the following is NOT a mode of data input in GIS?
- a) Digitizing
 - b) Scanning
 - c) GPS
 - d) Printing
59. The term "Silicon Valley" refers to a region in:
- a) New York
 - b) California
 - c) Texas
 - d) Washington

60. The RAM in a computer is used for:
- a) Permanent storage
 - b) Temporary memory
 - c) Display graphics
 - d) Internet connection
61. What is the capital of Canada?
- a) Toronto
 - b) Montreal
 - c) Ottawa
 - d) Vancouver
62. "ISRO" stands for:
- a) Indian Science Research Organisation
 - b) Indian Space Research Organisation
 - c) International Satellite Research Organisation
 - d) Indian Satellite and Rocket Organisation
63. Which of the following is a renewable resource?
- a) Coal
 - b) Natural gas
 - c) Solar energy
 - d) Petroleum
64. IF "FLOWER" = 96, then "PLANTS" = ?
- a) 94
 - b) 95
 - c) 90
 - d) 93
65. Which country will host the 2032 Summer Olympics?
- a) USA
 - b) Australia
 - c) France
 - d) Japan

66. What is the main function of a GIS buffer analysis?
- a) To display contour intervals
 - b) To determine elevation
 - c) To measure distances from a feature
 - d) To merge spatial datasets
67. Which is the fastest memory?
- a) ROM
 - b) RAM
 - c) Cache
 - d) Hard Disk
68. In which year did India gain independence?
- a) 1945
 - b) 1946
 - c) 1947
 - d) 1948
69. Which country is the largest emitter of CO₂ as of 2023 ?
- a) USA
 - b) China
 - c) India
 - d) Russia
70. The stratosphere contains the:
- a) Water vapor
 - b) Ozone layer
 - c) Clouds
 - d) Greenhouse gases
71. Which key is used to refresh a webpage?
- a) F4
 - b) F5
 - c) F6
 - d) F3
72. A polygon in GIS is best used to represent:
- a) Rivers
 - b) Roads
 - c) Cities
 - d) Temperature

73. The main cause of coral bleaching is:
- a) Overfishing
 - b) Ocean acidification
 - c) Rising sea temperatures
 - d) Water pollution
74. If a clock is 10 minutes fast at 9:00 AM and gains 2 minutes every hour, what will be the time shown at 3:00 PM?
- a) 3:10 PM
 - b) 3:20 PM
 - c) 3:12 PM
 - d) 3:22 PM
75. What is the smallest unit of digital storage?
- a) Byte
 - b) Kilobyte
 - c) Bit
 - d) Megabyte
76. The Himalayas were formed due to the collision of which two tectonic plates?
- a) African and Eurasian
 - b) Indian and Eurasian
 - c) Indian and Pacific
 - d) Australian and Pacific
77. In GIS, a "query" is used to:
- a) Add data to a map
 - b) Retrieve specific information
 - c) Format layers
 - d) Save output files
78. Which of the following is used in environmental pollution monitoring?
- a) INSAT
 - b) GPS
 - c) MODIS
 - d) SPOT

79. CPU stands for:
- a) Central Performance Unit
 - b) Central Processing Unit
 - c) Central Program Utility
 - d) Common Processing Utility
80. The Tropic of Cancer passes through how many Indian states?
- a) 6
 - b) 8
 - c) 7
 - d) 9
81. A virus spreads through:
- a) Power cables
 - b) Hard disk
 - c) Infected software/files
 - d) Keyboard
82. What is NDVI in remote sensing?
- a) Normal Difference Vegetation Index
 - b) Normalized Dry Vegetation Index:
 - c) Normalized Difference Vegetation Index
 - d) Numerical Density Vegetation Index
83. Which of the following is a biometric device?
- a) Barcode scanner
 - b) Fingerprint scanner
 - c) Keyboard
 - d) Webcam
84. The headquarters of the United Nations is in:
- a) Geneva
 - b) Paris
 - c) New York
 - d) London

85. Which of the following is used to represent elevation in maps?

- a) Contour lines
- b) Pie charts
- c) Flow lines
- d) Choropleth

86. The main source of water pollution in rivers is:

- a) Natural erosion
- b) Industrial waste
- c) Water from glaciers
- d) Ocean currents

87. If "EARTH" = 52, then "MARS" = ?

- a) 48
- b) 49
- c) 47
- d) 46

88. Which Indian state has the longest coastline?

- a) Tamil Nadu
- b) Gujarat
- c) Andhra Pradesh
- d) Maharashtra

89. What does GPS stand for?

- a) Global Positioning System
- b) Geo Processing Structure
- c) General Packet Service
- d) Ground Position Server

90. Which of these contributes the most to deforestation?

- a) Urbanization
- b) Industrialization
- c) Agriculture
- d) Mining

91. The fastest mode of data transfer is:
- a) Email
 - b) Bluetooth
 - c) Fiber optics
 - d) Infrared
92. "Arjuna Award" is given for excellence in:
- a) Literature
 - b) Cinema
 - c) Sports
 - d) Politics
93. Which of the following is NOT a natural resource?
- a) Air
 - b) Oil
 - c) Plastic
 - d) Water
94. A compass is used for measuring:
- a) Distance
 - b) Altitude
 - c) Direction
 - d) Speed
95. The headquarters of ISRO is located in:
- a) Mumbai
 - b) Bengaluru
 - c) Hyderabad
 - d) Chennai
96. Which Indian city is also known as the "Silicon Valley of India"?
- a) Hyderabad
 - b) Bengaluru
 - c) Pune
 - d) Chennai
97. Which satellite system is operated by India for navigation?
- a) NAVIC
 - b) GPS
 - c) GLONASS
 - d) Galileo

98. Which of these is a web browser?

- a) Excel
- b) Google Chrome
- c) Windows
- d) Linux

99. Which organ is primarily responsible for detoxifying chemicals in the human body?

- a) Kidney
- b) Liver
- c) Heart
- d) Lungs

100. A password is used to:

- a) Display content
- b) Prevent unauthorized access
- c) Format data
- d) Speed up internet

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-- ROUGH WORK --