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ENT-79

Total No. of Pages : 18

Entrance Examination, 2026

M. Sc in Geoinformatics

Subject Code: 96147

Day and Date : Tuesday, 21-07-2026

Total Marks : 100

Time : 10.30 a.m. to 12.00 p.m.

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 largest ocean on Earth, by area, is the _____ Ocean.
(A) Atlantic (B) Indian
(C) Pacific (D) Arctic
2. Which networking device is responsible for connecting different networks and directing data packets?
(A) Hub (B) Switch
(C) Router (D) Repeater
3. Which of the following is NOT a vector data format in GIS?
(A) Shapefile (B) KML
(C) GeoTIFF (D) GeoJSON

4. A man walks 10 m north, 10 m east, 10 m south, then 5 m west. How far is he from the starting point?
- (A) 5 m (B) 10 m
(C) 15 m (D) 20 m
5. Which planet is known as the Red Planet?
- (A) Venus (B) Mars
(C) Jupiter (D) Saturn
6. The Richter scale is used to measure the _____ of earthquakes.
- (A) intensity (B) depth
(C) magnitude (D) frequency
7. In presentation software, the visual effect that occurs when moving from one slide to the next is called:
- (A) Animation (B) Transition
(C) Slide Show (D) Master Slide
8. Which of the following satellite image has a high resolution?
- (A) LISS-I (B) LISS-II
(C) LISS-III (D) LISS-IV
9. Eight persons A, B, C, D, E, F, G, H sit in a row facing north. C is third to the right of A. B is second to the left of D. G is at one end. H is not adjacent to G. E is between A and D. Who is at the extreme right?
- (A) A (B) F
(C) H (D) C

10. Which of the following factors primarily influences the distribution of temperature on Earth?
- (A) Latitude (B) Longitude
(C) Altitude (D) Ocean currents
11. The branch of geography that studies the spatial distribution, composition and movement of people is called _____ Geography.
- (A) Cultural (B) Economic
(C) Population (D) Political
12. What is the purpose of a 'Cookie' in web browsing?
- (A) To speed up the CPU (B) To store user preferences
(C) To provide antivirus (D) To download files faster.
13. What is the primary difference between active and passive remote sensing?
- (A) Passive sensors are cheaper
(B) Active sensors emit their own signal
(C) Active sensors require a ground station
(D) Passive sensors work only at night
14. Which institution is responsible for issuing currency notes in India?
- (A) SEBI (B) SBI
(C) RBI (D) NABARD
15. Which is the longest river in the world?
- (A) Amazon (B) Nile
(C) Yangtze (D) Mississippi

16. The 'push and pull' factors are most commonly used to explain _____
- (A) soil erosion (B) migration
(C) monsoon onset (D) volcanic activity
17. Which key is used to start a slideshow from the first slide in MS PowerPoint?
- (A) F1 (B) F2
(C) F5 (D) F7
18. Which of the following factors does not affect the scale of the air photographs?
- (A) Focal length (B) Flying height
(C) Ground elevation (D) None of these
19. Eight persons sit around a circle. A is second to the right of B. C is third to the left of A. D is between B and E. Who is opposite C?
- (A) A (B) B
(C) D (D) E
20. Which article deals with Right to Equality?
- (A) Article 14 (B) Article 19
(C) Article 21 (D) Article 32
21. The total number of people per unit area of land is termed _____ density.
- (A) physiological (B) agricultural
(C) arithmetic (D) nutritional

22. In an email, what is the 'CC' field used for?
- (A) Carbon Copy (B) Creating Code
(C) Cancel Communication (D) Character Check
23. Which type of map projection preserves area but distorts shape?
- (A) Mercator projection (B) Equal-area projection
(C) Conic projection (D) Cylindrical projection
24. Which day will be on 15 August 2032?
- (A) Sunday (B) Monday
(C) Tuesday (D) Wednesday
25. GDP is calculated in which field?
- (A) Politics (B) Economy
(C) Geography (D) Culture
26. The classical 'Laws of Migration' were formulated by _____
- (A) Thomas Malthus (B) E.G. Ravenstein
(C) Ester Boserup (D) G.K. Zipf
27. Which of the following is considered an input device?
- (A) Plotter (B) Speaker
(C) Scanner (D) Monitor
28. In 1859, _____ used balloons as a platform to take the first aerial photograph.
- (A) Wilbur Wright (B) M. A. Batut
(C) Gaspard Felix Tournachon. (D) Evelyin Pruitt

29. P is Q's mother. R is Q's father. S is R's mother. How is S related to P?

- (A) Mother
- (B) Mother-in-law
- (C) Sister
- (D) Aunt

30. Who discovered penicillin?

- (A) Newton
- (B) Einstein
- (C) Alexander Fleming
- (D) Darwin

31. The Strait of Gibraltar separates Europe from _____

- (A) Asia
- (B) Africa
- (C) Australia
- (D) South America

32. In networking, a 'MAN' typically covers which geographical area?

- (A) A room
- (B) A building
- (C) A city
- (D) A country

33. Which of the following is NOT a GIS function?

- (A) Mapping
- (B) Spatial analysis
- (C) Image editing
- (D) Data visualization

34. 2, 6, 7, 21, 22, 66, ?

- (A) 67
- (B) 68
- (C) 132
- (D) 198

35. Internet works on which technology?

- (A) Satellite
- (B) TCP/IP
- (C) Bluetooth
- (D) Radar

36. In 2025, the country with the world's largest population is _____
- (A) China (B) India
(C) United States (D) Indonesia
37. Which type of software is an Operating System?
- (A) Application Software (B) System Software
(C) Utility Software (D) Firmware
38. Which of the following is an example of a raster data source?
- (A) Digital Elevation Model (DEM) (B) Shapefile
(C) Point cloud (D) GPS coordinates
39. In a code language, COMPUTER is written as RFUVQNPC. How is PRINTER written?
- (A) SFUOJSQ (B) SFUOJQS
(C) SFUOJSQ (D) SFUOIRQ
40. Green Revolution is related to:
- (A) Industry (B) Agriculture
(C) Transport (D) Trade
41. The Tropic of Cancer passes through _____ states of India.
- (A) six (B) seven
(C) eight (D) nine
42. Which unit is used to measure the clock speed of a modern processor?
- (A) Megabytes (MB) (B) Gigahertz (GHz)
(C) Dots Per Inch (DPI) (D) Kilobits (Kb)

43. What is "georeferencing" in GIS?
- (A) Aligning data to a coordinate system (B) Converting vector to raster
(C) Calculating distances (D) Importing from GPS
44. Statement: "Students should study more to score higher." Assumption: Studying more improves scores.
- (A) True (B) False
(C) Cannot say (D) Not implicit
45. Which of the following is a rift valley river?
- (A) Ganga (B) Narmada
(C) Yamuna (D) Brahmaputra
46. The southernmost tip of the Indian mainland is _____
- (A) Indira Point (B) Kanyakumari
(C) Rameswaram (D) Dhanushkodi
47. Which of the following is a popular tool for video conferencing?
- (A) MS Word (B) Adobe Photoshop
(C) Zoom (D) MS Excel
48. The spectral region of electromagnetic radiation which passes through the atmosphere without much attenuation is known as _____
- (A) Ozone hole (B) Atmospheric window
(C) Ozone window (D) Black hole

49. All A are B. Some B are C. No C is D. Conclusion:

- | | |
|----------------------|----------------|
| (A) Some A are C | (B) No A is D |
| (C) Some B are not D | (D) Both B & C |

50. "El Niño" phenomenon is related to:

- | | |
|--------------------|-------------------|
| (A) Atlantic Ocean | (B) Pacific Ocean |
| (C) Indian Ocean | (D) Arctic Ocean |

51. The Indian state producing the largest quantity of tea is _____

- | | |
|------------|-----------------|
| (A) Kerala | (B) West Bengal |
| (C) Assam | (D) Tamil Nadu |

52. The 'Notes' pane in presentation software is intended for:

- | | |
|------------------|-------------------------------|
| (A) The audience | (B) The presenter's reference |
| (C) File size | (D) Hidden images |

53. Which of the following is used to store GIS data?

- | | |
|--------------------|--------------------|
| (A) DBMS | (B) Spreadsheet |
| (C) Video software | (D) Word processor |

54. Map: Cartography:: Satellite: ?

- | | |
|-------------|--------------------|
| (A) Imagery | (B) Remote sensing |
| (C) GPS | (D) Survey |

55. Which sector is most affected by climate change in India?

- | | |
|-------------|-----------------|
| (A) IT | (B) Agriculture |
| (C) Banking | (D) Tourism |

56. The variety of plant and animal life found within a given habitat or region is called _____
- (A) ecosystem (B) biodiversity
(C) biome (D) biosphere
57. Which computer component is responsible for temporary data storage while programs are running?
- (A) Hard Drive (B) RAM
(C) ROM (D) SSD
58. Which of the following best describes "remote sensing" in GIS?
- (A) Collecting data from sensors (B) Analysis of data
(C) Converting vector to raster (D) Data representation
59. GPS: Navigation :: GIS:?
- (A) Mapping (B) Data analysis
(C) Visualization (D) Spatial analysis
60. The Swadeshi Movement started after:
- (A) Jallianwala Bagh (B) Partition of Bengal
(C) Non-Cooperation (D) Quit India
61. The thin layer of the Earth on which life exists is known as the _____
- (A) lithosphere (B) hydrosphere
(C) atmosphere (D) biosphere

62. A compiler is a type of software that:
- (A) Edits photos (B) Translates high-level language
(C) Browses internet (D) Scans viruses
63. Which satellite mission is known for its high-resolution commercial imaging capabilities?
- (A) MODIS (B) SPOT
(C) TerraSAR-X (D) WorldView
64. Four persons A, B, C, D sit in a row facing north. A is to the left of B and C is to the right of B. Who is in the middle?
- (A) A (B) B
(C) C (D) D
65. Which is the deepest ocean trench?
- (A) Tonga Trench (B) Mariana Trench
(C) Java Trench (D) Peru Trench
66. The maximum population size of a species that an environment can sustain indefinitely is termed its _____
- (A) biotic potential (B) carrying capacity
(C) ecological niche (D) trophic level
67. Which of these is used for permanent, high-capacity data storage?
- (A) Cache (B) Hard Disk Drive
(C) Registers (D) RAM

68. Which of the following remote sensing platforms is an example of a passive sensor?
- (A) Radar (B) LIDAR
(C) Landsat (D) Sonar
69. A person walks 5 m north and then 5 m east. In which direction is he from the starting point?
- (A) North-East (B) South-East
(C) North-West (D) South-West
70. Which index measures ease of doing business?
- (A) HDI (B) EDB Index
(C) GII (D) MPI
71. The Convention on Biological Diversity (CBD) was opened for signature at the Earth Summit in _____
- (A) Stockholm, 1972 (B) Rio de Janeiro, 1992
(C) Johannesburg, 2002 (D) Paris, 2015
72. What is the file extension for a modern PowerPoint presentation?
- (A).docx (B).pptx
(C).xlsx (D) .pdf
73. What is the primary advantage of using drones (UAVs) in remote sensing?
- (A) High spatial resolution (B) High spectral resolution
(C) Constant coverage (D) Space operation

74. If $SKY = 192511$, then $SEA = ?$

- | | |
|----------|-----------|
| (A) 1951 | (B) 195 |
| (C) 191 | (D) 19511 |

75. Which Mughal ruler built the Red Fort?

- | | |
|---------------|----------------|
| (A) Akbar | (B) Shah Jahan |
| (C) Aurangzeb | (D) Humayun |

76. The Intergovernmental Panel on Climate Change (IPCC) was established in the year _____

- | | |
|----------|----------|
| (A) 1972 | (B) 1988 |
| (C) 1992 | (D) 2000 |

77. Who is known as the "Father of the Internet"?

- | | |
|---------------------|---------------------|
| (A) Vint Cerf | (B) Tim Berners-Lee |
| (C) Charles Babbage | (D) Bill Gates |

78. Which of the following types of remote sensing would obtain information by penetrating cloud cover?

- | | |
|---------------|-------------------|
| (A) Passive | (B) Optical |
| (C) Microwave | (D) Near-infrared |

79. How many times do the hands of a clock coincide in 24 hours?

- | | |
|--------|--------|
| (A) 22 | (B) 24 |
| (C) 20 | (D) 26 |

80. "Make in India" initiative was launched in _____
- (A) 2012 (B) 2014
(C) 2016 (D) 2018
81. The long-term increase in the Earth's average surface temperature is called
- (A) greenhouse effect (B) global warming
(C) ozone depletion (D) acid rain
82. 'Instant Messaging' refers to:
- (A) Sending physical mail (B) Real-time text communication
(C) Recording a podcast (D) Writing a blog
83. Which of the following two characteristics of EMR is most relevant for remote sensing?
- (A) Frequency and speed (B) Wavelength and frequency
(C) Speed and photons (D) Wavelength and speed
84. Five people sit in a row. A is left of B, but right of C. D is right of B. E is at one end. Who is in the middle?
- (A) A (B) B
(C) C (D) D
85. Which layer is closest to Earth's surface?
- (A) Stratosphere (B) Troposphere
(C) Mesosphere (D) Thermosphere

86. The melting of polar ice caps due to global warming directly contributes to _____
- (A) ozone depletion (B) sea-level rise
(C) acid rain (D) ocean acidification only
87. Which of the following is a search engine?
- (A) Google Chrome (B) Windows Explorer
(C) Google (D) Safari
88. What is a "layer" in GIS?
- (A) Software tool (B) Collection of geographic data
(C) Analysis form (D) Coordinate system
89. If DOG = EPH, then CAT=?
- (A) DBU (B) DZU
(C) EBU (D) DCU
90. Which day is observed as International Yoga Day?
- (A) June 5 (B) June 21
(C) July 11 (D) April 22
91. The Andes mountain range runs along the _____ coast of South America.
- (A) western (B) eastern
(C) northern (D) southern
92. The physical arrangement or layout of a computer network is called its:
- (A) Protocol (B) Topology
(C) Architecture (D) Routing

93. A "coordinate system" in GIS is:
- (A) A system that defines representation in space
 - (B) A tool for visualization.
 - (C) Function for conversion
 - (D) Method for distance
94. How many times do hands form a straight line in 12 hrs?
- (A) 11
 - (B) 12
 - (C) 13
 - (D) 22
95. Which tax replaced multiple indirect taxes in India?
- (A) VAT
 - (B) GST
 - (C) Excise
 - (D) Service Tax
96. The capital of Australia is _____
- (A) Sydney
 - (B) Melbourne
 - (C) Canberra
 - (D) Perth
97. Which of the following is used to apply motion effects to individual elements on a slide?
- (A) Transition Tab
 - (B) Design Tab
 - (C) Animations Tab
 - (D) Review Tab
98. What does URL stand for?
- (A) Uniform Resource Locator
 - (B) United Remote Link
 - (C) Universal Radio Line
 - (D) Unit Resource List

99. If CAT = DBU, DOG = EPH, then BAT = ?

(A) CAU

(B) DBU

(C) CBU

(D) DCU

100. Who won the ICC Men's ODI Cricket World Cup 2023?

(A) India

(B) England

(C) Australia

(D) New Zealand



- Rough Work -