

Seat No.
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Total No. of Pages : 19

**RE-Entrance Examination 2026**  
**Department of Geography**  
**M.Sc in Geoinformatics**  
**Subject Code : 96147**

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**Day and Date : Wednesday, 24-06-2026**  
**Time : 10.30 AM TO 12.00 PM**

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**Total Marks : 100****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 point on the Earth's surface directly above the focus of an earthquake is called the .....

(A) epicentre	(B) hypocentre
(C) fault plane	(D) seismograph

2. Which protocol is primarily used for sending emails?

(A) POP3	(B) SMTP
(C) FTP	(D) HTTP
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



10. Who is known as the Father of Indian Constitution?  
(A) Mahatma Gandhi (B) Sardar Patel  
(C) Jawaharlal Nehru (D) B.R. Ambedkar
11. Igneous rocks are formed by the cooling and solidification of .....  
(A) sediments  
(B) magma or lava  
(C) metamorphic minerals  
(D) organic debris
12. IP in networking stands for:  
(A) Internal Process  
(B) Internet Protocol  
(C) Information Path  
(D) Integrated Port
13. Which of the following is NOT a component of a GIS?  
(A) Hardware (B) Software  
(C) Data (D) Network
14. Glacier: Ice:: Volcano:?  
(A) Lava (B) Fire  
(C) Heat (D) Smoke
15. Which planet is known as the Red Planet?  
(A) Venus (B) Mars  
(C) Jupiter (D) Saturn

16. The Western Ghats of India are locally also known as the .....
- (A) Aravalli (B) Vindhya  
(C) Sahyadri (D) Satpura
17. Who is credited with the invention of the World Wide Web (WWW)?
- (A) Bill Gates  
(B) Tim Berners-Lee  
(C) Steve Jobs  
(D) Larry Page
18. .... means bending of light when it passes from one medium to another.
- (A) Retraction (B) Redirection  
(C) Reflection (D) Refraction
19. Pointing to a woman, Raj says: "She is the daughter of my grandfather's only son." Who is she?
- (A) Sister (B) Cousin  
(C) Mother (D) Aunt
20. Which organization gives Nobel Prize?
- (A) UNO (B) Swedish Academy  
(C) World Bank (D) IMF
21. The Demographic Transition Theory describes the shift of a population from high birth and death rates to ..... birth and death rates.
- (A) higher (B) low  
(C) fluctuating (D) unchanged

22. SSD stands for:
- (A) Solid State Drive                      (B) Smart Storage Device  
(C) Silver Standard Data                  (D) System Soft Drive
23. Which of the following data formats is commonly used for vector data in GIS?
- (A) Raster                                      (B) Shapefile  
(C) Excel                                        (D) TIFF
24. A person moves 8 m north, turns right, moves 6 m, turns right again, moves 8 m. How far is he from starting point?
- (A) 6 m    (B) 8 m  
(C) 10 m                                        (D) 12 m
25. GDP is calculated in which field?
- (A) Politics                                      (B) Economy  
(C) Geography                                  (D) Culture
26. The Malthusian theory of population growth argues that population grows ..... while food supply grows arithmetically.
- (A) arithmetically  
(B) geometrically  
(C) linearly  
(D) randomly
27. A single page within a presentation file is known as a:
- (A) Sheet                                        (B) Slide  
(C) Frame                                        (D) Page

28. Which of these is not a principle of remote sensing?
- (a) Electromagnetic energy
  - (b) Electro-magnetic spectrum
  - (c) Interaction of energy with satellite
  - (d) Interaction of energy with atmosphere
29. If 1st January 2024 is Monday, what day is 1st March 2024?
- (A) Friday
  - (B) Thursday
  - (C) Saturday
  - (D) Sunday
30. Who won the Cricket World Cup 2023?
- (A) India
  - (B) England
  - (C) Australia
  - (D) New Zealand
31. The largest layer of the Earth's interior, lying between the crust and the outer core, is the .....
- (A) asthenosphere
  - (B) lithosphere
  - (C) mantle
  - (D) inner core
32. What does HTTP stand for?
- (A) Hyper Text Transfer Protocol
  - (B) High Tech Transfer Program
  - (C) Hyper Terminal Text Process
  - (D) High Transfer Text Protocol

33. What does GPS stand for in the context of GIS?
- (A) Geographic Positioning System
  - (B) Global Positioning System
  - (C) Geographic Projection System
  - (D) Geospatial Planning System
34. A person walks 7 km east, then 24 km south. Distance from starting point?
- (A) 25 km
  - (B) 31 km
  - (C) 30 km
  - (D) 20 km
35. Which gas is most abundant in atmosphere?
- (A) Oxygen
  - (B) Nitrogen
  - (C) CO<sub>2</sub>
  - (D) Hydrogen
36. The continent with the largest area in the world is .....
- (A) Africa
  - (B) Asia
  - (C) North America
  - (D) Europe
37. The 'Slide Sorter' view is most useful for:
- (A) Adding text to a slide
  - (B) Reorganizing the order of slides
  - (C) Changing the theme color
  - (D) Setting passwords
38. Which type of map projection is used to represent the Earth on a flat surface without distortion?
- (A) Mercator
  - (B) Robinson
  - (C) Equal-area
  - (D) Conic

39. What day was 1 Jan 2000?
- (A) Friday (B) Saturday  
(C) Sunday (D) Monday
40. Where is Taj Mahal located?
- (A) Delhi (B) Agra  
(C) Jaipur (D) Lucknow
41. Mount Kilimanjaro, the highest peak of Africa, is located in.....
- (A) Kenya (B) Tanzania  
(C) Uganda (D) Ethiopia
42. A firewall is primarily used in a system for:
- (A) Data entry  
(B) Security/Protection.  
(C) Increasing RAM  
(D) Managing Printers
43. Which of the following is a commonly used GIS software?
- (A) Microsoft Excel (B) AutoCAD  
(C) Photoshop (D) ArcGIS
44. At what time between 3 and 4 o'clock are the hands of a clock at  $90^\circ$ ?
- (A) 3:16  
(B) 3:18  
(C) 3:21  
(D) 3:24

45. Which country hosted Olympics 2020?  
(A) Japan (B) China  
(C) USA (D) UK
46. The standard meridian of India passes through the longitude .....  
(A) 75° E (B) 80° E  
(C) 82° 30' E (D) 90° E
47. Which of the following is a valid email address format?  
(A) user.website.com (B) user@website.com  
(C) user@website (D) user.website@com
48. In GIS, what is "cartography"?  
(A) The study of map projections  
(B) The study and practice of making maps  
(C) The study of geographic data accuracy  
(D) The process of collecting spatial data
49. 1, 4, 9, 16, 25, ?  
(A) 30 (B) 36  
(C) 49 (D) 64
50. Green Revolution is related to:  
(A) Industry (B) Agriculture  
(C) Transport (D) Trade
51. Among the peninsular rivers of India, the longest is the .....  
(A) Krishna (B) Godavari  
(C) Cauvery (D) Mahanadi

52. Which memory is non-volatile and contains the BIOS?
- (A) RAM (B) ROM  
(C) Cache (D) Virtual Memory
53. What is the primary purpose of a GIS database?
- (A) To store and manage geographic data  
(B) To display data in graphical format  
(C) To create 3D visualizations  
(D) To analyze temporal data
54. All rivers are water bodies. Some water bodies are lakes. Conclusion:
- (A) All lakes are rivers  
(B) Some lakes are rivers  
(C) Some rivers are lakes  
(D) No conclusion
55. Which state is famous for Kathak dance?
- (A) Tamil Nadu (B) Kerala  
(C) Uttar Pradesh (D) Assam
56. The Western Ghats of India are locally also known as the Sahyadri. In which state is the highest peak of Sahyadri located?
- (A) Maharashtra (B) Karnataka  
(C) Kerala (D) Tamil Nadu
57. Who is the "brain" of the computer?
- (A) CPU (B) RAM  
(C) Hard Disk (D) Motherboard

58. In GIS, what is a "contour map"?
- (A) A map showing roads
  - (B) A map representing elevation levels using lines
  - (C) A map showing population
  - (D) A map showing land use
59. Ramesh is the father of Sita. Sita is the sister of Mohan. How is Ramesh related to Mohan?
- (A) Brother
  - (B) Father
  - (C) Uncle
  - (D) Grandfather
60. Which Indian city is known as "Silicon Valley of India"?
- (A) Hyderabad
  - (B) Pune
  - (c) Bengaluru
  - (d) Chennai
61. The gas primarily responsible for the formation of acid rain is .....
- (A) carbon dioxide
  - (B) sulphur dioxide
  - (C) methane
  - (D) oxygen
62. Which of these is a wireless medium of communication?
- (A) Fiber Optic
  - (B) Coaxial Cable
  - (C) Infrared
  - (D) Twisted Pair
63. Which of the following technologies is commonly used to create Digital Elevation Models (DEMs)?
- (A) Radar
  - (B) LIDAR
  - (C) Multispectral imaging
  - (D) Hyperspectral imaging

64. Statement: "Use electric vehicles to reduce pollution." Assumption: Electric vehicles reduce pollution.
- (A) True (B) False  
(C) Doubtful (D) Irrelevant
65. Which tax replaced multiple indirect taxes in India?
- (A) VAT (B) GST  
(C) Excise (D) Service Tax
66. The Paris Agreement aims to hold the increase in global average temperature to well below ..... degrees Celsius above pre-industrial levels.
- (A) 1.0 (B) 2.0  
(C) 3.0 (D) 4.0
67. Which of the following is an example of an Open-source Operating System?
- (A) Windows 11 (B) macOS  
(C) Linux (D) iOS
68. The "blue" band in remote sensing imagery corresponds to which wavelength range?
- (A) 0.4-0.5  $\mu\text{m}$  (B) 0.5-0.6  $\mu\text{m}$   
(C) 0.6-0.7  $\mu\text{m}$  (D) 0.7-1.0  $\mu\text{m}$
69. Some cats are dogs. All dogs are animals. Conclusion:
- (A) Some cats are animals  
(B) All cats are animals  
(C) No cats are animals  
(D) None

70. Which is the largest delta in the world?
- (A) Nile Delta (B) Mississippi Delta  
(C) Sundarbans Delta (D) Mekong Delta
71. The United Nations Framework Convention on Climate Change (UNFCCC) was adopted at the Earth Summit held in .....
- (A) Stockholm (B) Rio de Janeiro  
(C) Johannesburg (D) Kyoto
72. SSD stands for:
- (A) Solid State Drive  
(B) Smart Storage Device  
(C) Silver Standard Data  
(D) System Soft Drive
73. Which satellite image has a high resolution?
- (A) LISS-I (B) LISS-II  
(C) LISS- III (D) LISS-IV
74. If CAT = DBU, DOG = EPH, then BAT = ?
- (A) CAU (B) DBU  
(C) CBU (D) DCU
75. Which schedule of the Indian Constitution deals with Anti-Defection Law?
- (A) 8th Schedule  
(B) 9th Schedule  
(C) 10th Schedule  
(D) 11th Schedule

76. Igneous rocks are formed by the cooling and solidification of  
(A) sediments  
(B) magma or lava  
(C) metamorphic minerals  
(D) organic debris
77. Modem is a short form for:  
(A) Modulator-Demodulator                      (B) Modern-Demodern  
(C) Mode-Demode                                      (D) Mobile-Demobile
78. 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
79. How many times do the hands of a clock coincide in 24 hours?  
(A) 22    (B) 24  
(C) 20    (D) 26
80. The Finance Commission is constituted under which article?  
(a) Article 280    (b) Article 356  
(c) Article 368    (d) Article 110
81. The largest ocean on Earth, by area, is the ..... Ocean.  
(A) Atlantic    (B) Indian  
(C) Pacific    (D) Arctic

82. What does URL stand for?
- (A) Uniform Resource Locator
  - (B) United Remote Link
  - (C) Universal Radio Line
  - (D) Unit Resource List
83. Which of the following satellite image has a high resolution?
- (A) LISS-I
  - (B) LISS-II
  - (C) LISS-III
  - (D) LISS- IV
84. Six people sit around a circular table facing center. A is opposite B. C is between A and D. E is not adjacent to B. Who sits to the immediate right of A?
- (A) C
  - (B) D
  - (C) E
  - (D) F
85. Which state leads in wind energy production in India?
- (A) Gujarat
  - (B) Tamil Nadu
  - (C) Rajasthan
  - (D) Maharashtra
86. The Sahara, the world's largest hot desert, lies primarily in .....
- (A) Asia
  - (B) Africa
  - (C) Australia
  - (D) South America
87. The term 'Bandwidth' refers to:
- (A) The physical width of a cable
  - (B) The data transfer capacity of a network
  - (C) The number of computers
  - (D) The weight of a laptop

88. Pick up the correct statement from the following:
- (A) In remote sensing, the observation place is called a platform.
  - (B) Platforms may be stationary or mobile.
  - (C) Spatial resolution becomes poorer with increase of platform height.
  - (D) All of these
89. 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
90. Which day is observed as International Yoga Day?
- (A) June 5
  - (B) June 21
  - (C) July 11
  - (D) April 22
91. The process by which green plants convert sunlight into chemical energy is called .....
- (A) respiration
  - (B) photosynthesis
  - (C) transpiration
  - (D) decomposition
92. Which device is used to convert digital signals to analog and vice-versa?
- (A) Router
  - (B) Switch
  - (C) Modem
  - (D) Bridge

93. In remote sensing, what is "resolution" referring to?
- (A) The level of detail in an image
  - (B) The quality of the satellite signal
  - (C) The amount of data
  - (D) The distance of the satellite
94. A is B's brother. C is B's mother. D is C's father. How is D related to A?
- (A) Father
  - (B) Grandfather
  - (C) Uncle
  - (D) Brother
95. Which Indian art form is associated with wall painting in Bihar?
- (A) Warli
  - (B) Madhubani
  - (C) Kalamkari
  - (D) Gond
96. Wetlands of international importance are protected under the ..... Convention.
- (A) Stockholm
  - (B) Basel
  - (C) Ramsar
  - (D) Vienna
97. What is the typical range for a Personal Area Network (PAN) like Bluetooth?
- (A) 10 meters
  - (B) 100 kilometers
  - (C) 500 meters
  - (D) 1 centimeter
98. 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

99. 2, 4, 6, 8,?

(A) 9

(B) 10

(C) 12

(D) 14

100. Which country recently joined BRICS (expansion phase)?

(A) Saudi Arabia

(B) Japan

(C) Germany

(D) UK

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**ROUGH WORK**