

**PU-CET (PG) Entrance Test – 2015**

**Important:** Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.

*In Figure**In Words*

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O.M.R. Answer Sheet Serial No.

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Signature of Candidate: \_\_\_\_\_

Signature of Invigilator: \_\_\_\_\_

**Subject: Masters in Remote Sensing and GIS****Time: 1½ Hours****Number of Questions: 75****Maximum Marks: 75**

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO.

**INSTRUCTIONS:**

- Write your Roll No. on the Questions Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Question Booklet Serial No. on the OMR Answer Sheet. Darken the corresponding bubbles with **Black Ball Point/Black Gel Pen**.
- Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 75 Questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of Test.
- Each question has four alternative answer (A,B,C,D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with **Black Ball Point/Black Gel Pen**. There shall be negative marking for wrong answer, ¼ of the marks of the question will be deducted for every wrong answer.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Booklet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the question given in the Question Booklet.
- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- For rough work only the blank sheet at the end of the Question Booklet be used.
- The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. **Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.**
- After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
- In no case the Answer Sheet, the Question Booklet, or its part or any material copied/noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistant or found giving or receiving assistant or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- Communication equipment such as mobile phones, pager, wireless set, scanner, camera or any electronic/digital gadget etc., is not permitted inside the examination hall. Use of calculators is not allowed.**
- The candidates will not be allowed to leave the Examination Hall/Room before the expiry of half of the allotted time.

1. Which one of the following features can be termed as 'physical feature'?  
A) Air Port                      B) Mountain                      C) Road                      D) Canal
2. Which one of the following represents the age of the earth?  
A) 4.6 million years                      B) 4.6 billion years  
C) 13.7 billion years                      D) 13.7 trillion years
3. Which one of the following represents the inner planets?  
A) Planets between the sun and the earth  
B) Planets between the sun and the belt of asteroids  
C) Planets in gaseous state  
D) Planets without satellite(s)
4. Which one of the following earthquake waves is more destructive?  
A) P-waves                      B) Surface waves  
C) S-waves                      D) None of the above
5. Which one of the following is a direct source of information about the interior of the earth?  
A) Earthquake waves                      B) Gravitational force  
C) Volcanoes                      D) Earth magnetism
6. Which of the following states has the longest coast line?  
A) Maharashtra                      B) Tamil Nadu                      C) Gujarat                      D) West Bengal
7. Which one of the following describes the lithosphere?  
A) Upper and lower mantle                      B) Crust and core  
C) Crust and upper mantle                      D) Mantle and core
8. Dot method is used to show  
A) Distribution of population                      B) Percent urban population  
C) Literacy rate                      D) Growth rate of population
9. Which of the following is also called primary rock?  
A) Sedimentary                      B) Igneous                      C) Metamorphic                      D) Layered rock
10. Which one of the following is the hardest mineral?  
A) Topaz                      B) Quartz                      C) Diamond                      D) Feldspar
11. Indian plate is moving towards Eurasian plate at a speed of  
A) 5 cm per year                      B) 5 m per year  
C) 50 m per year                      D) 500 m per year

12. Weathering is at *in situ*? It means
- A) Breaking of rocks at the same site  
 B) Breaking of rocks by water  
 C) Breaking of rocks by glaciers  
 D) Deposition of rock
13. NIFE is combination of
- A) Nitrogen and Feldspar  
 B) Nickel and Iron  
 C) Neon and Fluorine  
 D) Nitrate and Iron
14. Moraines are associated to
- A) Glaciers  
 B) Sea coast  
 C) River valleys  
 D) Wind erosion
15. Which one of the following gases constitutes the major portion of the atmosphere?
- A) Oxygen  
 B) Argon  
 C) Nitrogen  
 D) Carbon dioxide
16. Atmospheric layer important for human beings is:
- A) Stratosphere  
 B) Troposphere  
 C) Mesosphere  
 D) Ionosphere
17. Which of the following is not a rift valley lake?
- A) Victoria  
 B) Dead Sea  
 C) Malawi  
 D) Tanganyika
18. Mount K2 is in:
- A) Himalayas  
 B) Karakorum  
 C) Hindukush  
 D) Kirthar
19. Kathiawar is a region in
- A) Tamil Nadu  
 B) Rajasthan  
 C) Gujarat  
 D) Maharashtra
20. The sun is directly overhead at noon on 21st June at:
- A) The equator  
 B) Tropic of cancer  
 C) Tropic of Capricorn  
 D) Arctic circle
21. In which one of the following cities, are the days the longest?
- A) Trivandrum  
 B) Hyderabad  
 C) Chandigarh  
 D) Nagpur
22. The atmosphere is mainly heated by the:
- A) Short wave solar radiation  
 B) Long wave terrestrial radiation  
 C) Reflected solar radiation  
 D) Scattered solar radiation
23. The Inter Tropical Convergence Zone normally occurs:
- A) Near the Equator  
 B) Near the Tropic of Cancer  
 C) Near the Tropic of Capricorn  
 D) Near the Arctic Circle
24. The direction of wind around a low pressure in northern hemisphere is:
- A) Clockwise  
 B) Anti-clock wise  
 C) Perpendicular to isobars  
 D) Parallel to isobars

25. Nathula pass is located in  
A) Himachal Pradesh  
B) Jammu & Kashmir  
C) Sikkim  
D) Uttarakhand
26. Which one of the following is the most important constituent of the atmosphere for human beings?  
A) Water vapour  
B) Dust particle  
C) Hydrogen  
D) Oxygen
27. Which one of the following process is responsible for transforming solid into gaseous?  
A) Condensation  
B) Evaporation  
C) Transpiration  
D) Sublimation
28. The air that contains moisture to its full capacity:  
A) Relative humidity  
B) Absolute humidity  
C) Specific humidity  
D) Saturated air
29. Which one of the following is the highest cloud in the sky?  
A) Cirrus  
B) Nimbus  
C) Stratus  
D) Cumulus
30. Which one of the following years is supposed to have recorded the warmest temperature the world over?  
A) 1990  
B) 1998  
C) 1885  
D) 2014
31. At what temperature Celsius scale is equal to Fahrenheit?  
A) 32  
B) Minus 40  
C) Plus 40  
D) 100
32. Salinity is expressed as the amount of salt in grams dissolved in sea water per  
A) 10 gm  
B) 100 gm  
C) 1,000 gm  
D) 10,000 gm
33. Which one of the following is the smallest ocean:  
A) Indian Ocean  
B) Atlantic Ocean  
C) Arctic Ocean  
D) Pacific Ocean
34. Tides in the oceans are caused by gravitational pull of  
A) Moon only  
B) Sun only  
C) Sun and moon only  
D) Neither sun nor moon
35. Which one of the following is included in biosphere?  
A) Only plants  
B) Only animals  
C) All living and non-living organisms  
D) All living organisms
36. Pantograph is used for  
A) Enlargement and reduction of maps  
B) To work out slope on the map  
C) To calculate the area on map  
D) To read the map scale

37. Conservation of biodiversity is important for:
- A) Animals  
B) Plants  
C) Animals and plants  
D) All organisms
38. Which of the following projections is best suited in navigation?
- A) Mercator  
B) Mollweide  
C) Sinusoidal  
D) Conical
39. Isobars are used to depict
- A) Pressure  
B) Temperature  
C) Height  
D) Precipitation
40. Which one of the following methods of scale is a universal method?
- A) Simple Statement  
B) Representative Fraction  
C) Graphical Scale  
D) Linear
41. 'Numerator' in R. F. represents:
- A) Ground distance  
B) Map distance  
C) Both the distances  
D) Vertical distances
42. A map projection least suitable for the world map:
- A) Mercator  
B) Conical with one Standard parallel  
C) Sinusoidal  
D) Mollweide
43. One degree of longitudinal distance along the equator is equivalent to
- A) 1000 km  
B) 111 km  
C) 121 km  
D) 101 km
44. When the source of light is placed at the centre of the globe, the resultant projection is called
- A) Orthographic  
B) Stereographic  
C) Gnomonic  
D) Mercator
45. In which of the following aerial photographs the horizon appears?
- A) Vertical  
B) Near-vertical  
C) Low-oblique  
D) High-oblique
46. In which of the following aerial photographs the Nadir and the principle points coincide?
- A) Vertical  
B) Near-vertical  
C) Low-oblique  
D) High-oblique
47. Which type of the following projections is used in aerial photographs?
- A) Parallel  
B) Orthogonal  
C) Central  
D) Mercator
48. Galileo is a Global Positioning System of
- A) USA  
B) India  
C) European Union  
D) Russia
49. Which of the following regions of Electromagnetic spectrum is not used in satellite remote sensing?
- A) Microwave region  
B) Infrared region  
C) X - rays  
D) Visible region

50. Indian Institute of Remote Sensing is located at  
 A) Dehradun                      B) Chennai                      C) Mumbai                      D) Hyderabad
51. Which department prepares the weather map of India for each day?  
 A) The World Meteorological Organization  
 B) The India Meteorological Department  
 C) The Survey of India  
 D) Indian Meteorological Society

52. Lines connecting the places of equal height are called  
 A) Isobars                      B) Isohyets                      C) Isotherms                      D) Isohypsies

53. The agricultural land in topographical sheets is shown by colour  
 A) Yellow                      B) Green                      C) Brown                      D) Red

54. Which one of the following map shows the population distribution:  
 A) Choropleth maps                      B) Isopleth maps  
 C) Dot maps                      D) Square root map

55. Which one of the following is best suited to represent the spatial variation?  
 A) Line graph                      B) Bar diagram  
 C) Circle diagram                      D) Choropleth

56. What type of diagraph would you use to represent the following data?

<u>States</u>	<u>Share of Production of Iron-Ore (in %)</u>
Madhya Pradesh	23
Goa	21
Karnataka	20
Bihar	19
Orissa	10
Andhra Pradesh	05
Maharashtra	02
	<b>100</b>

- A) Line                      B) Multiple bar graph                      C) Pie-diagram                      D) None of these
57. Districts within a state would be represented in which type of spatial data?  
 A) Points                      B) Lines                      C) Polygons                      D) Polyline
58. The capital of Dadar & Nagar Haveli is  
 A) Kavarati                      B) Silvassa                      C) Daman                      D) Panaji

59. Which of the following is the largest state in area?  
 A) Madhya Pradesh    B) Uttar Pradesh    C) Rajasthan    D) Maharashtra
60. Which of the following methods will be best for soil survey?  
 A) Census    B) Sampling    C) Schedule    D) Interview
61. If you are travelling along tropic of cancer, which of the following state will not come across your way?  
 A) Rajasthan    B) West Bengal    C) Meghalaya    D) Mizoram
62. The New Moor Island is nearest to  
 A) Tamil Nadu    B) West Bengal    C) Kerala    D) Gujarat
63. INSAT series satellites are used for  
 A) Remote Sensing    B) Telecommunication    C) GPS    D) Navigation
64. Bellary is in the state of  
 A) Karnataka    B) Maharashtra    C) Telangana    D) Kerala
65. Jaitapur is in the news these days for  
 A) Nuclear power plant    B) Landslide  
 C) Film Industry    D) Cloud Burst
66. Which planet rotates on its axis from east to west?  
 A) Earth    B) Venus    C) Jupiter    D) Mercury
67. The minimum distance between the sun and the earth occurs on  
 A) Dec 22    B) June 21    C) September 23    D) Jan 3
68. Which of the following longitude is used for international date line  
 A)  $90^{\circ}$  E    B)  $0^{\circ}$  E    C)  $180^{\circ}$  longitude    D) Equator
69. What is the unit of measurement of distances of the stars from the earth?  
 A) Light years    B) Nautical Miles    C) Fathoms    D) Kilometers
70. Which of the following is used to measure the vertical height on the map?  
 A) Statement scale    B) Linear scale    C) R. F.    D) Contours
71. Which of the following projections has a source of light at infinity?  
 A) Central    B) Orthographic    C) Stereographic    D) Sinusoidal

72. Which of the following is related to true shape

- A) Homolographic    B) Orthomorphic    C) Rhumb line    D) Stereographic

73. Survey of India has its headquarters located at

- A) New Delhi    B) Hyderabad    C) Kolkata    D) Dehradun

74. Which of the following projections cannot depict even a hemisphere?

- A) Mercator    B) Gnomonic    C) Orthographic    D) Sinusoidal

75. International Meridian Conference in 1884 was held at

- A) New York    B) London    C) Moscow    D) Washington D. C.

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