

Department of Geography
Faculty of Science
The Maharaja Sayajirao University of Baroda

M.Sc. Geography Entrance 2021 – Question Paper with Answer Key

Note: Answers are highlighted with yellow colour.

1. Which area in the world witness highest seismic earthquake activity in the world.
 - A. Mid-continental belt
 - B. **Cir-cum Pacific belt**
 - C. Mid-Atlantic belt
 - D. All
2. Tropical cyclone, drought, wildfire is:
 - A. Industrial hazard
 - B. Man induced hazard
 - C. **Meteorological hazard**
 - D. Hydrological hazard
3. Porosity is the ability of soil to ___ water.
 - A. **Hold**
 - B. Dissolve
 - C. Transmit
 - D. Discharge
4. Milankovitch cycles _____.
 - A. Is related to shifts in the temperature of surface water in the middle latitudes of the Pacific Ocean.
 - B. **Is related to changes in Earth's rotation and orbit around the sun that may trigger climate variation.**
 - C. Is related to the timing of the northern lights in the thermosphere .
 - D. Is related to the transpiration, evaporation, and precipitation of Earth's water.
5. The first line of defense against cyclones and rising seas are
 - A. **Mangrove forest**
 - B. Alpine forest
 - C. Evergreen forest
 - D. Deciduous forest
6. _____ is the ability of a surface to reflect away solar radiation.
 - A. **Albedo**
 - B. Positive feedback
 - C. Radiative force
 - D. Greenhouse effect
7. Which of the following factor is responsible for zonal stratification in vegetation types in India from moist subtropical to dry arctic _____.
 - A. **altitude**
 - B. temperature
 - C. longitudinal extent
 - D. humidity
8. Which one of the following is a result of ozone layer depletion?
 - A. Increase in the oxygen level
 - B. Increase in the nitrogen level

- C. Increase in the phosphorous level
- D. Increase in the carbon dioxide level

9. Indian Meteorological Department (IMD) calls a storm ‘Super cyclone’ when the wind blows

- A. More than 120 km/hour
- B. More than 100km/hour
- C. More than 150 km/hour
- D. More than 220km/hour

10. If an earthquake of moderate intensity of 6 to 6.5 on Richter scale strikes then where it will be most harmful

- A. Young fold Himalayan Mountain Ranges
- B. Indo Gangetic Plain
- C. North-eastern Hill Region
- D. Deccan Plateau

11. The cycle of disaster consists of the following components

- A. Mitigation, Preparedness, Response, Recovery
- B. Preparedness, vulnerability assessment, risk assessment, recovery
- C. Mitigation, Risk assessment, Response and Recovery
- D. Recovery, Response, Mitigation, Preparedness

12. The ‘tethys’ geosynclines lies between _____ in north and _____ in south.

- A. Gondwanaland & Laurasian
- B. Laurasian & Gondwanaland
- C. Angaraland & Gondwanaland
- D. Laurasian & Angaraland

13. The heat balance of the earth is maintained by

- A. Incoming insolation in short waves and terrestrial radiation in long waves
- B. The atmosphere absorbs heat
- C. Incoming solar radiation is reflected
- D. The earth absorbs heat

14. Which of the following areas of India has high well irrigated area

- A. Rocky and uneven surface of Peninsular India
- B. Dry Tracts of Rajasthan and Gujarat
- C. Brackish groundwater region of Uttar Pradesh
- D. Deltaic Regions of Mahanadi, Godavari and Krishna

15. What is Kyoto Protocol?

- A. It is an agreement among countries to take steps for reducing global warming.
- B. It is an agreement among countries to take steps for reducing acid rain.
- C. It is an agreement among countries to take steps for planting trees to control pollution.
- D. It is an agreement among countries to start using nuclear energy.

16. The rocky outcrop of _____ hills forms the water divide between Narmada and Tapi rivers of Gujarat.

- A. Vanmala
- B. Ratanmahal
- C. Rajpipla
- D. Satpura

17. A thermocline is _____.

- A. The coldest part of the ocean.
- B. The hottest part of the ocean.
- C. The zone of greatest heat loss.

D. The zone of greatest temperature change.

18. The data in which the raw data is arranged in a systematic form is known as in a

A. Frequency distribution table

B. Graphical representation

C. Class interval

D. Grouped data

19. Hamlets has a population of _____ persons.

A. 1 to 10

B. 11 to 100

C. 101 to 500

D. 501 to 20,000

20. Theodolite reads in

A. Degrees

B. Minutes

C. Seconds

D. All the above

21. Which of the following indicates the correct order of the principal layers of the earth's atmosphere from bottom to top?

A. Troposphere – Stratosphere – Mesosphere – Thermosphere – Exosphere

B. Thermosphere – Stratosphere – Troposphere – Mesosphere – Exosphere

C. Exosphere – Thermosphere – Mesosphere – Stratosphere – Troposphere

D. Exosphere – Mesosphere – Thermosphere – Stratosphere – Troposphere

22. Find out the value of median from given data : 8,10,15,18,20,6,5,4

A. 15

B. 3

C. 9

D. 8

23. The planetary winds which are known as roaring forties are

A. Easterlies

B. Westerlies

C. Trade Winds

D. Doldrums

24. The RF of the Toposheet Number 72 F/11 would be _____.

A. 1 : 10,00,000

B. 1 : 2,50,000

C. 1 : 1,00,000

D. 1 : 50,000

25. In chain and tape survey, _____ is used for determining the position of magnetic north.

A. prismatic compass

B. arrow

C. magnetic compass

D. metallic tape

26. Which of the following forests is known as the 'Lungs of the planet Earth'?

A. Taiga forest

B. Tundra forest

C. Amazon rain forest

D. Rain forests of North East India

27. _____ is an imaginary level surface to which all the elevations are referred to.
- A. Mean sea level
 - B. Bench mark
 - C. Datum
 - D. Prismatic compass
28. _____ is “The total population an area is able to support given the quality of the natural environment and the prevailing technology available”.
- A. Ecological deficit
 - B. Carrying capacity
 - C. Carbon sequestration
 - D. Demography
29. At a place where wet-bulb temperature as well as relative humidity is high throughout the year, _____ type of climate will be mentioned in climograph.
- A. scorching
 - B. muggy
 - C. raw
 - D. keen
30. A _____ is a graphical representation of market forces and income as and when an economy develops.
- A. Kuznets Curve
 - B. Philip’s Curve
 - C. Laffer’s Curve
 - D. Okun’s Law
31. _____ is a major threat of oil refinery, they react and cause "marble cancer”.
- A. Orographic rain
 - B. Cyclonic rain
 - C. Convectional rain
 - D. Acid rain
32. _____ are the lines of equal measure of value or density.
- A. Contours
 - B. Choropleth
 - C. Latitudes
 - D. isopleth
33. Which one of the following methods of scale is a universal method?
- A. Simple Statement
 - B. Representative Fraction
 - C. Graphical Scale
 - D. None
34. _____ has the largest population of scheduled tribes in India.
- A. Maharashtra
 - B. Bihar
 - C. Madhya Pradesh
 - D. Arunachal Pradesh

35. A tribal group of India which possesses short stature, dark complexion, big flat nose, thick lips and wavy to straight hair is called _____.
- A. Bhills
 - B. Santhals
 - C. Gonds
 - D. Kirghiz
36. _____ language is basically a variant of Hindi but written in the Arabic script.
- A. Persian
 - B. Urdu
 - C. Farsi
 - D. Dari
37. _____ is an instrument which automatically records the continuous changes in pressure for a period of a week.
- A. Altimeter
 - B. Barograph
 - C. Fortin's barometer
 - D. Thermograph
38. As per IMD, an occasion when the rainfall for a week is half of the normal or less, when the normal weekly rainfall is above 5 mm or more, if such four consecutive weeks occur from middle of May to October is considered as _____ drought.
- A. Meteorological
 - B. Agricultural
 - C. Hydrological
 - D. Famine
39. Hygrometer consists essentially of a _____ which expands or contracts as the relative humidity increases or decreases
- A. Strip of paper
 - B. Aluminium String
 - C. Rubber
 - D. Human hair
40. Suez Canal joins Mediterranean Sea with which among the following seas?
- A. Red sea
 - B. Dead sea
 - C. White sea
 - D. Caspian sea
41. _____ is an important economic pursuit in many arid lands.
- A. Mining
 - B. Manufacturing
 - C. Agriculture
 - D. Hunting
42. _____ is the oldest human race.
- A. Negrito
 - B. Mongolian
 - C. Alpine
 - D. Caucasoid

43. _____ occupies the first rank in Human Development in the World.
- A. U.S.A.
 - B. Japan
 - C. Norway
 - D. Switzerland
44. _____ is a geographical region that has economic laws that are more liberal than country's typical economic laws.
- A. Free trade zone
 - B. Export processing Zone
 - C. Special economic zone
 - D. Industrial estates
45. In which type of Agriculture the land is obtained by cleaning forest and agriculture is practiced till the fertility of the farm is exhausted?
- A. Subsistence Agriculture
 - B. Shifting Agriculture
 - C. Intensive Farming
 - D. Extensive Farming
46. Who argued that while food production could only increase in arithmetic progression, human population grow exponentially?
- A. Frank W Notestein
 - B. Frank W Notestein
 - C. Thomas Robert Malthus
 - D. Charles Darwin
47. At the southern coast of Gujarat, semi-enclosed body of water where river water mixes with Arabian sea water is called:
- A. Delta
 - B. Estuary
 - C. Sea
 - D. Bay
48. The Kaveri delta is located in which among the following states of India?
- A. Kerela
 - B. Maharashtra
 - C. Tamil Nadu
 - D. Karnataka
49. Local thunderstorms 'Norwesters' are prominent in _____
- A. Punjab
 - B. West Bengal
 - C. Andhrapradesh
 - D. Tamil Nadu
50. The four segments of the Golden Quadrilateral join the following cities.
- A. Delhi-Mumbai
 - B. Mumbai -Chennai
 - C. Chennai -Kolkata
 - D. Kolkata-Delhi

-End-