

Answers to this Paper must be written on the paper provided separately. You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the question paper. The time given at the head of this Paper is the time allowed for writing the answers.

Attempt **all** questions from **Part- I**(compulsory). A total of **five** questions are to be attempted from **Part-II**. The intended marks for questions or parts of questions are given in brackets []

Note

1. In all **Map Work**, make wise use of arrows to avoid overcrowding of the map.
2. The Map given at the end of this question paper must be detached, and after marking, must be fastened to your answer booklet.
3. **All sub-sections of the questions attempted must be answered in the correct serial order.**

PART I

(Attempt **all** questions from this **part**)

Question I

Choose the correct option:

[10]

- i) The _____ are a semi Nomadic tribe that live a Northern tanzania and South Kenya.
a) Bushmen
b) Tuaregs
c) Aborigines.
d) Maasai
- ii) The intensity of the tremors caused by an earthquake is measured on _____
a) Epicenter
b) seismology.
c) Richer Scale
d) focus
- iii) _____ stretches from the Mediterranean Sea towards Himalayas and includes the Alpine and Himalayan mountain systems.
a) The circum Pacific belt.
b) The great African rift valley belt
c) The mid world mountain belt.
d) The Mediterranean belt
- iv) _____ rocks thus formed are generally more compact, harder and bulky than the original rocks.
a) Igneous
b) Sedimentary.
c) Metamorphic
d) Intrusive
- v) Who is believed to have been the first to hypothesis that the shape of the earth is spherical?
a) Geocentric.
b) Heliocentric.
c) Copernicus
d) Pythagoras
- vi) Which of the following is TRUE with respect to equatorial region?
i) Tropical rainforest dominates.
ii) Conventional rainfall
a) Only (i)
b) only (ii)
c) both (i) and (ii)
d) Neither (i) or (ii)
- vii) Complete the box by choosing the correct option.

Granite

Igneous rocks

?

Metamorphic rocks

- viii) Mt. Vesuvius, Mt. Stramboli, Mt. Etna in Italy and Mauna Loa in Hawaii Island are example of _____
a) Basalt
b) Slate
c) Granite.
d) Gabbro
- _____.
a) Active volcanoes
b) Dormant volcanoes.
c) Extinct volcanoes
d) Composite volcanoes

ix) The earth is said to be in _____ when its distance from the sun is maximum.

- a) Winter solstice
- b) summer solstice
- c) Aphelion
- d) Perihelion

10. _____ is the semi circles connecting the north and the South Pole.

- a) The meridians.
- b) Parallel of latitudes
- c) The grids.
- d) None of the above

Question2

[10]

On the outline map of the World provided:

- (a) Shade and label the tropical monsoon region.
- (b) Name river Nile
- (c) Name the South Atlantic Ocean.
- (d) Mark the Pacific Ocean.
- (e) Mark with a bold line and label Himalayas.
- (f) Mark and label gulf of Guinea
- (g) Mark and label the Ural Mountains.
- (h) Shade and label the equatorial region in Africa.
- (i) Mark and label the Tibetan plateau.
- (j) Mark and label the Canadian Shield.

Question3

[10]

- i) Water convergent plate boundaries?
- ii) Which is the most important product of eruption of a volcano
- iii) How are igneous rock formed? What is its type?
- iv) What are depositional plains?
- v) What is inclination of the earth's axis?

Part II

(Attempt any five questions from this part)

Question4

- i) Define the following geographical terms.
 - a) Coriolis effect. [2]
 - b) Orbit of the earth [2]
- ii) With reference to December a winter solstice answer the following question.
 - a) Which part of the earth experience is 24 hours of daylight?
 - b) Which hemisphere of the earth experience is winter?
- iii) Explain the changes of season using a suitable diagram. [3]
- iv) Give reason. [3]
 - a) We see the sun rising in the east and setting in the west.
 - b) The period of daylight and darkness are nearly 12 hours each all over the world during Equinox.

Question5

- i) Read the information and write a single form. [2]
 - a) Rocks forming the crust of the earth change from one type to the other due to various processes.
 - b) Volcanic material deposited on the surface of the earth.
- ii) Compare and contrast: Extrusive and Intrusive rock [2]
- iii) How are igneous rocks categorized? [3]
- iv) With respect to sedimentary rock, answer the questions. [3]
 - a) How are these rocks formed?
 - b) Why do these rocks have layers?
 - c) Why do sedimentary rocks contain fossils?

Question6

- i) Explain food chain with the help of a diagram. [2]
- ii) Define the following terms: (a) biosphere. (b) Hydrosphere [2]
- iii) With regards to variations in Earth's distance from the sun, how would the life have been affected? [3]
- a) Minor variation in the distance.
- b) Greater distance of Earth from Sun. [3]
- iv) With reference to Sun, how does the energy transfer take place in the following? [3]
- a) Primary Producers b) Primary Consumers. c) Secondary consumers

Question7

- i) What is Equator? [2]
- ii) Explain a simple method to find local time of a place? [2]
- iii) Draw a labelled diagram showing various heat zone of the earth and explain. [3]
- iv) Find out the time difference between Greenwich (0° longitude) and Allahabad ($82^\circ 30'$ East longitude). [3]

Question8

- i) Give reasons. [2]
- a) Density of population is low in equatorial region.
- b) Name the continent where the tropical grassland vegetation dominates. [2]
- ii) Compare and contrast: equatorial region and tropical grasslands [3]
- iii) With reference to Savanna or tropical grasslands answer the following. [3]
- a) What is its location?
- b) State any two characteristics of its climate.
- c) Name any three continents where such grasslands are found. [3]
- iv) State any three adaptive features of the Savanna vegetation.

Question9

- i) What is Tethys? [2]
- ii) What is Intermontane Plateau? Explain with two examples. [2]
- iii) Compare and contrast: young fold mountains and old fold mountains. [3]
- iv) Write three characteristics of Block Mountains. [3]

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