STEM SCHOOL
VIDYA NAGAR - GUNTUR
Affiliated to ICSE, New Delhi | Affiliation No : AP116

QUARTERLY EXAMINATION – 2024 - 2025
SUBJECT: GEOGRAPHY (H.C.G PAPER - 2)
GRADE: VII

NAME OF THE STUDENT & SEC_____DATE: 21-09-2024

Maximum marks: 80
Time allowed: $2\frac{1}{2}$ HOURS
Answers to this paper must be written on the answer sheet 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.

- ***Part I** is compulsory**. All questions** from **Part I** are to be attempted.*
- ***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:
(i) In all map work, make wise use of arrows to avoid overcrowding of the map.
(ii) The map work should be done on the map provided to you and after marking must be fastened to your answer paper.
*(iii) **All sub-sections of the questions attempted must be answered in the correct serial order.***
(iv) All working including rough work should be done on same answer sheet which is used to answer the rest o the paper.

PART- I (30 Marks)

Question 1

Choose the correct answer to the questions from the given options. **16×1=16M**

1. Which of the following is an igneous rock?

(a) Limestone (b) slate (c) marble (d) granite

2. Which of the following is a plutonic rock?

(a) Granite (b) Gneiss (c) Gypsum (d) None of the above

3. _____ is measured with a barometer

(a) humidity (b) temperature (c) rain (d) atmospheric pressure

4. _____ clouds contain tiny crystals of ice.

(a) Stratus (b) cumulus (c) cirrus (d) nimbostratus

5. Relative humidity is measured in _____

(a) percentage (b) kilometers (c) centimeters (d) knots

6. Which of the Following Is Not a Greenhouse Gas?

(a) Methane (b) Hydrogen (c) Nitrous oxide (d) Ozone

7. Burning of Fossil Fuels Results In

(a) Increased oxygen level (b) Decreases greenhouse gases

(c) Increased greenhouse gases (d) Increased ethane level

8. _____ and Fahrenheit are the two most common scales.

(a) Gram (b) Celsius (c) meter (d) knots

9. When hot air rises, It forms a region of _____ pressure.

(a) high (b) low (c) nominal (d) none of the above

10. 1 : 10000 means that 1 cm on the map is equal to ten thousand centimeters on the _____

(a) water (b) ground (c) sky (d) building

11. What do the contour line on a topographical map represent?

(a) Political boundaries (b) Temperature zones

(c) Elevation or height above sea level (d) Road networks

12. What does it mean when contour lines are very close together on a map?

(a) The area has a steep slope (b) The area is flat

(c) The area is underwater (d) The area is a plateau

13. In which layer of atmosphere does weather occur?

(a) Stratosphere (b) Troposphere (c) Mesosphere (d) Exosphere

14. Which of the following is not a layer of the atmosphere?

(a) Troposphere (b) Hydrosphere (c) Ionosphere (d) Exosphere

15. What is the effect of altitude on temperature?

(a) Temperature increases as altitude increase (b) Temperature decreases as altitude increases

(c) Temperature remains constant with altitude (d) Altitude does not affect temperature

16. Which rock type is likely to contain fossils?

(a) Igenous (b) Sedimentary (c) Metamorphic (d) Volcanic

Question-2

Answer the following questions in one word **14×1=14M**

1. What is a metamorphic rock derived from limestone?
2. Which direction is usually at the top of a topographical map?
3. What type of rock is formed from cooled lava or magma?
4. What is the outer most layer of the Earth’s atmosphere called?
5. Name a commonly found igneous rock.
6. What term is used for the increase in Earth’s average temperature due to the greenhouse effect?
7. Which gas is primarily responsible for the greenhouse effect?

8. What instrument is used to measure velocity of wind?
9. Which colour is typically used to represent water bodies on a topographical map?
10. What is the process called that traps heat in the Earth's atmosphere?
11. What is the term for the blanket of air surrounding the Earth?
12. Which gas may be produced in intensive livestock farming?
13. Give an example of sedimentary rock.
14. What is the most common method used to show elevation on a topographical map?

PART-B (50MARKS)

(Answer any *five* of the following questions)

Question-3

a. What are rocks? Name different types of rocks? [2M]
b. What is a metamorphic rock? Give examples. [2M]
c. Explain different types of sedimentary rocks. [3M]
d. Write the significance of rocks. [3M]

Question-4

a. What is the greenhouse effect? [2M]
b. Why exposure to ultraviolet rays can be harmful. [2M]
c. Write the importance of the ozone layer. [3M]
d. List some ways to control global warming. [3M]

Question-5

a. Define the term atmosphere. What are the main layers of the Earth's atmosphere? [2M]
b. Give reasons for the following: [2M]
   i. Auroras are formed.
   ii. The upper layer of the thermosphere is known as the ionosphere.
c. Write a short note on the mesosphere layer. [3M]
d. Discuss the importance of protecting the ozone layer. [3M]

Question-6

a. What are contour lines and what do they represent on a topographic map? [2M]
b. What features are depicted using brown colours on a map? [2M]
c. Explain how to determine the steepness of a slope using contour lines through a diagram. [3M]
d. Distinguish between the Linear scale and Statement scale. [3M]

Question-7

a. What are the three heat zones of the Earth depict through a diagram. [2M]

b. List the four types of clouds. [2M]

c. Write a short note on anemometer. [3M]

d. Explain the working of a mercury barometer. [3M]

Question-8

a. Give reasons for the following [2M]

(i) An isotherm is used in a weather map.

(ii) The atmospheric pressure is low at high temperatues.

b. Define absolute humidity and relative humidity [2M]

c. Explain Nimbostratus and Stratus clouds [3M]

d. Write a note on wind vane. [3M]

Question-9

1. How is granite different from marble? [2M]

2. What are igneous rocks? List the types of igneous rocks. [2M]

3. Differentiate between minerals and rocks. [3M]

4. Explain the Rock Cycle. [3M]

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