

**HALF YEARLY EXAMINATION, (2021-22)**  
**GEOGRAPHY**  
**CLASS IX**

**Reading Time: 10 minutes**

**M.M: 40**

**Writing Time: 1 hour**

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**Instructions:**

1. All questions are compulsory.
  2. Answer all questions in the correct order.
  3. Write your name and section clearly.
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**SKILL: Comprehension & Analysis (20 marks)**

- Q1. Explain: [3]
- i. Lines of longitudes are also called meridians.
  - ii. Rotation of the Earth influences the direction of ocean currents.
  - iii. From space, the Earth looks blue.
- Q2. Give a geographical reason for each of the following: [3]
- i. Dong valley in Arunachal is the first to see sunrise in India.
  - ii. Kuala Lumpur rotates faster on the Earth's axis than London.
  - iii. There are no active volcanoes in the Himalayas.
- Q3. Draw a neatly labeled diagram showing the position of the Earth during summer solstice. [2]
- Q4. Give reasons for the following: [3]
- i. The month of February has 29 days in a leap year.
  - ii. 1 degree angular distance is roughly equal to 111 kms.
  - iii. Limestone has fossils in it.
- Q5. Draw a well-labeled diagram showing different parts of a volcano and the products emitted by it. [3]
- Q6. Calculate the local time at Singapore (104 degree East) when it is 6 pm at Greenwich. [3]
- Q7. Calculate the angle of incidence of Sun's rays on June 21<sup>st</sup> for the latitude 40 degree South. [3]
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**SKILL: Application (20 marks)**

Read the passage given below and answer the questions (Q8. to Q11.) that follow:

The Sakurajima volcano in southwestern Japan erupted on early Sunday, sending a column of smoke over 2.3 kilometers above the crater, the weather agency said. Although pyroclastic flows were confirmed within 1.8 km from the crater, the agency said human damage is unlikely as people are prohibited from entering the area within 2 km from the crater since February 2016.

Sakurajima, one of the most active volcanoes in Japan, is connected to the Osumi Peninsula of Kyushu, the country's southwestern main islands.

- Q8. Why is Japan in a tectonically active zone? [1]
- Q9. Why is Japan a developed nation even after undergoing massive episodes of destruction? [2]
- Q10. Besides pyroclasts, name any two solid products of a volcano. [2]
- Q11. Give any two destructive effects and one constructive effect that can be seen as a result of volcanic eruptions in Japan. [3]
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This paper consists of 2 printed sides.

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Read the passage below and answer the questions that follow:

The Lion Capital of Ashoka was originally placed on top of the Ashokan pillar at the famous Buddhist site of Sarnath, by Emperor Ashoka of the Mauryan Empire at around 250 BCE. The capital is carved out of a single block of polished sandstone, and was always a separate piece from the pillar.

In modern times, it has been adopted as the National Emblem of India, showing the Horse on the left and Bull on the right of the Ashoka Chakra in the circular base on which the four Asiatic lions are standing back to back.



Q12. What type of a rock is sandstone? [1]

Q13. How are such rocks formed? [2]

Q14. Briefly explain the processes involved in the formation of such rocks. [3]

Q15. As young geographers, you must understand the importance of volcanoes and continuous change associated with dynamic movements on the Earth's crust. What do you think would happen if the Earth were devoid of volcanic activities? [3]

Q16. "The best things in life are free."

This statement explains how easy it is to take things for granted. One such thing we all take for granted is our own home- The Earth. What unique characteristics does the Earth exhibit that makes it a habitable planet in comparison to other known planets? [3]

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