

**BOARD-PATTERN PRACTICE PAPER · CBSE CLASS 11**

# Interior of the Earth

Geography · Chapter 3 · Matches current CBSE blueprint · Each question PYQ-sourced where indicated

DATE	TOTAL MARKS	DURATION	MARKING	TARGET
_____	<b>30</b>	<b>60 min</b>	<b>As per board</b>	<b>≥ 24/30</b>

**GENERAL INSTRUCTIONS**

- All questions are compulsory.
- Section A: 4 one-mark questions. Section B: 3 two-mark questions. Section C: 3 three-mark questions. Section D: 2 long / source-based questions (5 + 6 marks).
- Answer reasoning questions by linking the observation to the conclusion (e.g. 'S-waves stop, therefore the outer core is liquid').
- For 'distinguish' questions, present the two sides as a clear contrast.
- Marks are indicated against each question.

**Section A — Very Short Answer (1 mark each, 4 Qs)**
**4 MARKS · 8 MIN**

- Q1.** What is the epicentre of an earthquake? [PYQ 2022 School Annual] **[1 mark]**
- Q2.** Name the seismic wave that cannot pass through liquids. [PYQ 2022 CBSE SQP] **[1 mark]**
- Q3.** What is the name of the discontinuity between the crust and the mantle? [PYQ 2019 CBSE SQP] **[1 mark]**
- Q4.** Of what materials is the earth's core mainly composed? [PYQ 2020 School Annual] **[1 mark]**

**Section B — Short Answer I (2 marks each, 3 Qs)**
**6 MARKS · 12 MIN**

- Q5.** Distinguish between the focus and the epicentre of an earthquake. [PYQ 2020 School Annual] **[2 marks]**
- Q6.** Name any two direct and two indirect sources of information about the earth's interior. [PYQ 2019 CBSE SQP] **[2 marks]**
- Q7.** Differentiate between intrusive and extrusive volcanic landforms with one example each. [PYQ 2023 School Annual] **[2 marks]**

**Section C — Short Answer II (3 marks each, 3 Qs)**
**9 MARKS · 20 MIN**

- Q8.** Distinguish between P-waves and S-waves on the basis of speed, type of motion and the media through which they travel. [PYQ 2020 CBSE SQP] **[3 marks]**
- Q9.** Describe the structure of the earth's core, naming the two discontinuities associated with it. [PYQ 2022 CBSE SQP] **[3 marks]**
- Q10.** Explain the difference between the asthenosphere and the lithosphere, and state why the asthenosphere is important. [PYQ 2021 School Annual] **[3 marks]**

**Section D — Long / Source-Based (5 + 6 marks, 2 Qs)**
**11 MARKS · 20 MIN**

- Q11.** Explain how seismic waves and their shadow zones have helped scientists determine the layered structure and physical state of the earth's interior. [PYQ 2022 CBSE SQP] **[5 marks]**
- Q12.** Read the passage and answer: 'After a major earthquake, recording stations around the world report their data. Stations up to about 105 degrees from the epicentre record both P-waves and S-waves. Beyond 105 degrees, no station records any S-waves at all. In addition, stations in a belt between about 105 and 145 degrees record no P-waves, but stations beyond 145 degrees record P-waves once more.' (a) What is the name for the belts where particular waves fail to arrive? (b) Why do no S-waves arrive beyond 105 degrees, and what does this prove about the interior? (c) Why do P-waves disappear only in the 105-145 degree belt and then return? (d) Which property of S-waves is responsible for their behaviour? (e) Name the discontinuity at the boundary where S-waves are stopped. [PYQ 2021 CBSE SQP] **[6 marks]**

**Marking scheme & model answers** — see companion Answer Key PDF · all PYQs traceable to actual CBSE papers · readyforboards.com · +91 70330 05444