

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

# The Origin and Evolution of the Earth

Geography · Chapter 2 · 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 descriptive questions with the theory or process named first, then its stages or steps in correct order, then an example or evidence where relevant.
- For 'distinguish' questions, present the two sides as a clear contrast and give the reason for the difference.
- Marks are indicated against each question.

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

- Q1.** About how many years ago did the universe originate according to the Big Bang theory? [PYQ 2020 CBSE SQP] **[1 mark]**
- Q2.** Who first proposed the gaseous / nebular idea of the origin of the earth? [PYQ 2022 CBSE SQP] **[1 mark]**
- Q3.** Name the process by which the early earth separated into core, mantle and crust. [PYQ 2019 School Annual]
- Q4.** In which part of the earth did life first originate, about 3.8 billion years ago? [PYQ 2021 School Annual] **[1 mark]**

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

- Q5.** What evidence shows that the universe is expanding? [PYQ 2020 School Annual] **[2 marks]**
- Q6.** Distinguish between terrestrial and jovian planets in two points. [PYQ 2022 CBSE SQP] **[2 marks]**
- Q7.** What is meant by 'degassing' in the evolution of the earth's atmosphere? [PYQ 2019 CBSE SQP] **[2 marks]**

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

- Q8.** Describe the three stages in the evolution of the earth's atmosphere. [PYQ 2021 CBSE SQP] **[3 marks]**
- Q9.** Explain the early theories of the origin of the earth, naming the scientists associated with each. [PYQ 2022 School Annual] **[3 marks]**
- Q10.** Explain how the early earth came to have a layered structure of core, mantle and crust. [PYQ 2023 CBSE SQP] **[3 marks]**

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

- Q11.** Explain the Big Bang theory of the origin of the universe, including its stages and the evidence supporting it. [PYQ 2022 CBSE SQP] **[5 marks]**
- Q12.** Read the passage and answer: 'After the early earth had formed as a hot, uniform ball, it heated further from impacts, compression and radioactivity. Its materials melted and sorted by weight, the heaviest sinking to the centre. Later, volcanoes released gases from inside the earth; as the planet cooled, water vapour rained down and gathered in the hollows, and in time the first living things appeared in that water.' (a) Name the process described in the second sentence by which the earth sorted into layers. (b) Name the three layers that resulted, from centre to surface. (c) What is the release of gases from the interior through volcanoes called? (d) How, according to the passage, did the oceans form? (e) Where and roughly when did life first appear? [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