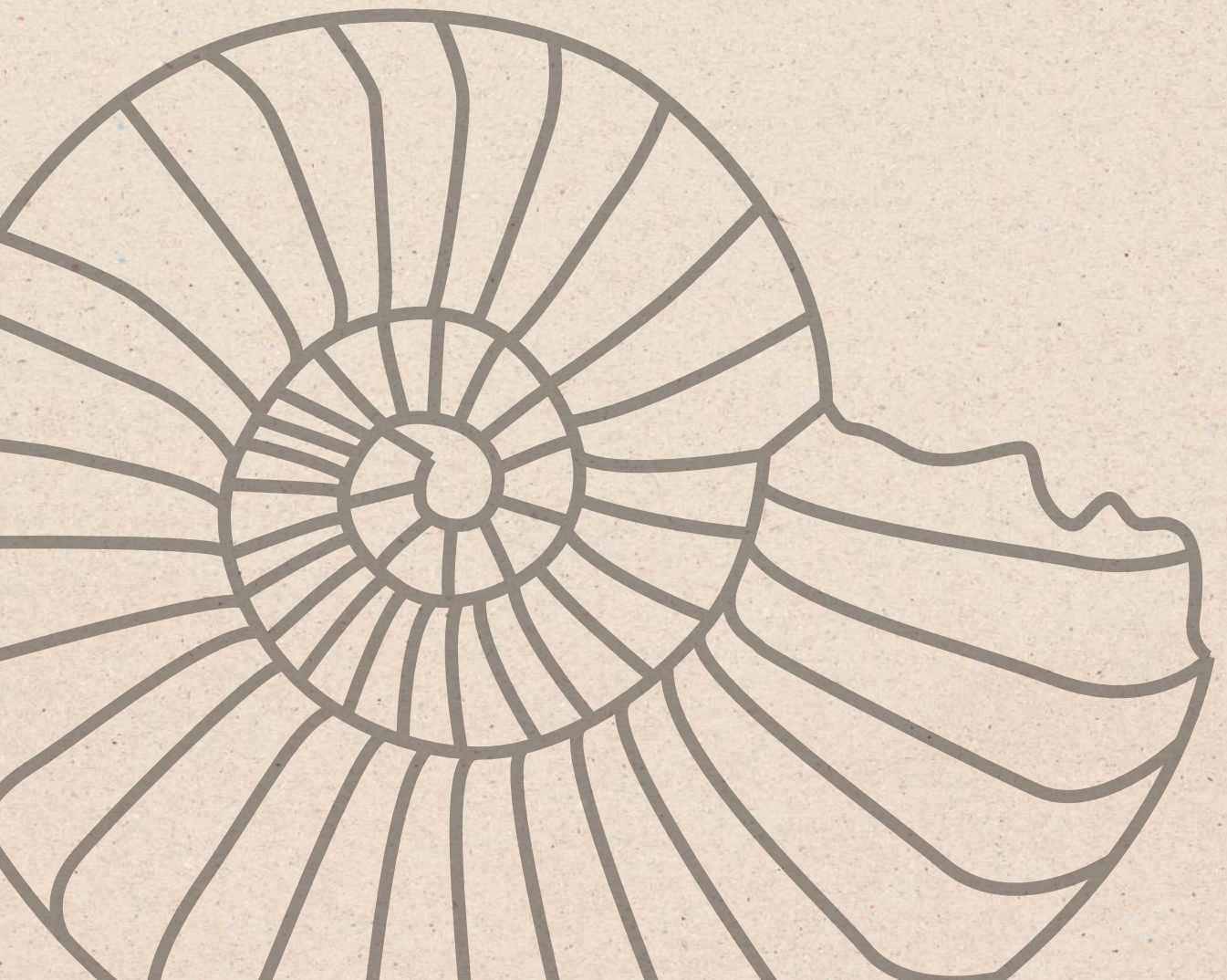
Appendix S1

PRE-TEST QUESTIONNAIRE

E01

Course and section:



In this questionnaire we will work on aspects related to the history of the Earth and Life.

1. **Indicate the name of the missing Periods/Systems or Floors/Ages in the following table (numbers 1 to 5):**

Quaternary	Holocene
	Pleistocene
Tertiary	Neogene
	1
2	
Jurassic	
Triassic	
3	
Carboniferous	
Devonian	
4	
Ordovician	
5	

1.

2.

3.

4.

5.

Only one answer is correct, circle the letter that you think is the correct answer

2. How old is the Earth estimated to be?

a) 45000 million years

b) 4600 million years

c) 4600 thousand years

d) 40000 years

3. Which of the following Aeons has no fossil record?

a) Proterozoic

b) Phanerozoic

c) Archaean

d) Hadian

4. a) What are the names of the first fossils found in the fossil record?

b) To which living being do they correspond?

c) In what Era do we find them?

5. In which Era does an oxygenic atmosphere begin to exist?

a) Proterozoic

b) Mesozoic

c) Cenozoic

d) Paleozoic

6. When did the first land plants appear?

a) Cambrian

b) Permian

c) Ordovician

d) Devonian

7. In which Eon does the supercontinent Rodinia form?

a) Proterozoic

b) Archaean

c) Hadian

d) Phanerozoic

Only one answer is correct, circle the letter that you think is the correct answer

8. When did the first amphibians appear?

a) Cambrian

b) Silurian

c) Ordovician

d) Devonian

9. In which era does the Alpine Orogeny occur?

a) Cenozoic

b) Mesozoic

c) Paleozoic

d) Precambrian

10. In which of the following periods were fern forests abundant?

a) Carboniferous

b) Devonian

c) Silurian

d) Ordovician

11. In what period is Pangea formed?

a) Carboniferous

b) Devonian

c) Permian

d) Silurian

12. a) What is the extinction that wiped out 96% of the planet's species? Name the end and the beginning of the periods where it occurs

b) How many millions of years ago did it occur?

Only one answer is correct, circle the letter that you think is the correct answer

13. a) What is the extinction that wiped out the dinosaurs? Name the end and the beginning of the periods where it occurs.

b) How many millions of years ago did it occur?

c) How did it happen?

14. At this moment the Moon is formed.

a) Proterozoic
b) Archaean
c) Hadian
d) Phanerozoic

15. Place in each column the event that corresponds to the time in the table header:
Presence of trilobites, Appearance of the first birds, Presence of ammonitids, Appearance of hominids, Presence of dinosaurs.

Oldest ⇩ Most recent ⇩

Paleozoic	Mesozoic	Cenozoic

16. Chronologically order the appearance of the following groups of living beings:
Mammals, terrestrial arthropods (insects), gymnosperm forests, dinosaurs, armored fish, early reptiles, shelled animals, birds.

1.
2.
3.
4.
5.
6.
7.
8.

17. Identify the beings to which the following fossils correspond:

A: B: C: D:

18. Because of the abundance of plant life, in what period does the atmosphere get the 21% of O2 it currently contains?

a) Cambrian
b) Silurian
c) Ordovician
d) Devonian

19. Indicate whether the following sentences are true (V) or false, (F) explaining the reason for the false ones.

- ☐ The Precambrian covers approximately 90% of geological time
- ☐ The Devonian period belongs to the Mesozoic
- ☐ Dinosaurs could coexist with early hominids
- ☐ The first eukaryotes appeared in the Proterozoic

20. Indicate whether the following sentences are true (V) or false, (F) explaining the reason for the false ones.

- ☐ Invertebrates diversify in the Mesozoic
- ☐ The first glaciation occurred in the Archaic
- ☐ The Würm It is the last glaciation
- ☐ The first mammals appeared in the Jurassic

Thank you very much for your collaboration!

All images have been extracted from Canva.

images used on front and back cover:
Ammonoid and Fern, by Pixabay
Dinosaur footprints, by Lana_Art

Images used in question 17:
Fossil Nummulite, by Weisschr
Trilobite, by ScottOrr
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