24900120

Reg No:....................

Name:......................

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

FIRST SEMESTER MGU-UGP (HONOURS) REGULAR EXAMINATION NOVEMBER 2024

First Semester

Discipline Specific Core Course - MG1DSCGEO100 - THE EARTH : AN INTRODUCTION

(2024 ADMISSION ONWARDS)

Duration: 1.5 Hours   Maximum Marks: 50

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I), Appreciation (Ap), and Skill (S)

Students should attempt atleast one question from each course outcome to enhance their overall outcome attainability.

[Learning Domain][CO No(s)]

Part A

Attend any 7 of the following in 60 words
Each question carries 2 marks

1	Recall the temperature range typically found in the inner core.	[K]	[1]
2	Compare the density contrast of continental and oceanic lithosphere.	[U]	[1]
3	Define a bed.	[K]	[3]
4	Define the principle of uniformitarianism.	[U]	[2]
5	Mention instruments used by geologists to measure strike and dip.	[U]	[5]
6	What do understand by the term 'luster' in mineralogy?	[U]	[3]
7	Define Petrology. Mention three branches of Petrology.	[U]	[1]
8	What are Pedalfer and Pedocals?	[U]	[2]

Part B
Write Short Notes On Any 3 Of The Following In 250 Words
Each question carries 8 marks

9   Describe the internal structure of the earth based on the velocity of seismic   [U]   [1]
     wave propagation.

10   Explain the difference between a sedimentary rocks and igneous rocks.   [U]   [3]

11   Describe the origin of folds. Illustrate parts of a fold.   [U]   [5]

12   Discuss the use of fossils in paleoenvironment reconstruction and evolution.   [U]   [4]

13   Explain the factors that influence the process of weathering.   [U]   [2]

(3 × 8 = 24)

Part C
Write Essay On Any 1 Of The Following In 400 Words
Each question carries 12 marks

14   Discuss types of fossils and their significance in relative dating of rocks.   [U]   [4]

15   Discuss the size, shape, volume and density of the Earth. Explain how   [U]   [1]
     rotation and revolution influences weather and climate of the Earth.

(1 × 12 = 12)

END OF THE QUESTION PAPER
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