

CVM Universtiy

M.Sc. (EST) (First Semester) External Examination-2021

Date: 1st March, 2021

Timing: 02.00 a.m. to 04:00 p.m.

Subject Code:101350106: Environmental Chemistry and Geology

Total Marks: 60

Q.1. (a) Answer the following multiple choice questions.

[08]

- Following is the example of Intrusive igneous rocks.
a. Pumice b. Obsidian c. Granite d. Basalt
- The blown particles are strikes against up standing mass es and causing erosion,the process is called...
a. Deflaction b. Attrition c. Abrasion d. Desert pavement
- Which of the following environments is an example of a shoreline/ transitional environment?
a) Alluvial b) continental shelf c) Delta d) organic reef
- The depositional form of Cross beds feature is formed by following geological agent.
a) Water b) Groundwater c) Wind d) Glacier
- Which of the following rocks is deposited only by non-biological, chemical precipitation ?
a) Limestone b) halite c) chert d) coal
- _____ horizon of soil is also known as transport zone.
a) O b) A c) B d) C
- TOM = TOC x _____.
a) 1.742 b) 1.724 c) 1.274 d) 1.247
- Size of clay particle is less than _____.
a) 2.0 mm b) 0.2 mm c) 0.02 mm d) 0.002 mm

Q.1. (B) Answere the following. (Fill in the blanks and True/False)

[08]

- Outercore is rigid and solid in nature.
- Mica has cleavage in three direction.
- PPA states that pollution should be prevented or reduced at the source.
- Soil texture provides information about water flow potential.
- When magma is injected and solidified in a concave shallow basin,the formation is called.....
- Tor formation is caused byweathering process.
- _____ is the capacity of the soil to store the water.
- R horizon of soil is also known as _____.

Q.2. Attempts any six short notes of the following

[12]

- Ashtanopshere
- Felsic Igneous rocks
- Onion weathering of rocks
- Types of sandunes
- Meanders formation
- Soil permeability
- Using of different chemicals in Green chemistry
- Explain: Infiltration, Leaching

- Q.3.** Define green chemistry. Discuss twelve principles of green chemistry. [08]
Or
- Q.3.** Define green engineering. Write a note on twelve principles of green engineering. [08]
- Q.4.** How the Sedimentary rocks are formed? Describe the classification of sedimentary rocks with examples. [08]
Or
- Q.4.** Describe the types of metamorphism and importance of the Metamorphic rocks. [08]
- Q.5.** Explain about River drainage basin and describe about the stream erosion and transpotion process with suitable diagram. [08]
Or
- Q.5.1.** Describe regarding Karst topography. [04]
2. Write a note on Chemical weathering process. [04]
- Q.6.** Describe in detail about soil horizons. Add a note on soil types based on water content. [08]
Or
- Q.6.** Briefly explain about soil textures. Add a note on soil problems and solutions. [08]