

## M.Sc. Sem.-1 Examination

GEL : 401 :

Geology

March 2021

Time : 2-00 Hours]

[Max. Marks : 50

Section -I

- Q-1. Explain various methods of dating of rocks with suitable examples. [14]
- Q-2. (A) Describe type plateaus with suitable examples from India. [07]  
(B) Write explanatory note on sea floor spreading. [07]
- Q-3. Define recurrent seismicity and explain neo-tectonics in context to active faults of India. [14]
- Q-4. (A) Describe types of geosynclines. [07]  
(B) Write note on orogenesis. [07]
- Q-5. Explain the structure and origin of the Alpine-Himalayan belt. [14]
- Q-6. (A) Write explanatory note on Dharwar proto- continent. [07]  
(B) Discuss Aravalli-Singhbhum proto-continent. [07]
- Q-7. Explain protoplate tectonics and explain tectonics of Precambrian orogenic belts of India. [14]
- Q-8. (A) Dynamic evolution of continental and oceanic crust. [07]  
(B) Mechanism of plate motion and recent advances. [07]

Section -II

- Q-9. **Answer in short: (Any Four)** [08]
- (i) Define trench and rift valley with examples.
- (ii) Name four major shields of the world.
- (iii) Draw a structural map of Kachchh showing any four faults.
- (iv) Draw a sketch of geosynclinerium.
- (v) Name four cratons of the Eastern ghat orogenic belt.
- (vi) Draw a sketch of Narmada – Son lineament.
- (vii) Name two author of the book of Indian and Global Tectonics.
- (viii) Mention composition of Pandyan belt.