

19P446

(Pages: 1)

Name:

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021

(CBCSS-PG)

CC19P GEL4 E05a - ENGINEERING GEOLOGY

(Geology - Elective Course)

(2019 Admission - Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Short answer type questions. Answer any *four* questions.

1. Compressive and transverse strength of rocks.
2. Role of geology in constructing civil engineering structures.
3. Differentiate gravity and embankment dams.
4. Aseismic design of buildings.
5. Engineering properties of aggregates.
6. Explain Jigging and tabling.
7. Room and pillar method in coal mining.

(4 × 2 = 8 Weightage)

II. Short essay questions. Answer any *four* questions.

8. Engineering properties of soil.
9. Reservoir problems of dam.
10. Describe hazard zonation map.
11. Mining methods of beach placers.
12. Geological aspects of construction of bridge.
13. Methods of petroleum exploration.
14. Magnetic and electrostatic separation.

(4 × 3 = 12 Weightage)

III. Long essay. Answer any *two* questions.

15. Describe different methods in alluvial mining.
16. Describe surface and underground exploratory methods.
17. What are different ore dressing processes? Add a note on mineral legislation in India.
18. Classification and causes of landslides. Add a note on slope stability.

(2 × 5 = 10 Weightage)
