

BACHELOR OF CONSTRUCTION ENGINEERING SUPPLEMENTARY Examination, 2018
(2nd Year, 1st Semester)

Sub: ENGINEERING GEOLOGY

Time : Three hours

Full Marks : 100

GROUP-A

(Use separate answer script for each group)

Write answer any five questions

1. Explain formation of solar system and earth. 10
2. What is magma? Write note on texture of igneous rocks? Classify igneous rocks on the basis of silica percentage.
2+4+4=10
3. What do you mean by 'topography' and 'landform'? Write note on tectonic landform.
4+6=10
4. What is metamorphic rock? Which are the controlling factors of metamorphism? Write note on regional metamorphism.
2+3+5=10
5. What is sedimentary rock? What are the processes to form sedimentary rocks? Write note on clastic sedimentary rocks.
2+3+5=10
6. What do you mean by 'hazard' and 'disaster'? Write note on important natural hazards.
3+7=10

Ex/CON/GEO/T/211/2018 (S)

B. CONST. ENGG. 2ND YR. 1ST SEM. SUPPLEMENTARY EXAMINATION, 2018

Subject- Engineering Geology

Time: Three hours

Full Marks: 100

Instruction: Use separate answer scripts for each Group. Answer any 5 (five) questions.

GROUP- B

1. With the help of schematic diagrams describe different lithospheric plate boundaries. Which plate boundary is responsible for most common mountain building processes on the earth surface? Explain. 6 + 4
2. What are the different body waves and surface waves generated during earthquake? With the help of suitable diagrams write details of the different layers present within the earth. 4 + 6
3. What are the major causes of the earthquakes? How do we locate the epicenter of an earthquake? 6 + 4
4. With the help of schematic diagrams describe different fault structures. What kind of faults are common in Himalaya region and why? 6 + 4
5. What are the principal types of Dam? Describe with sketches. Write briefly the method of geological investigations for dam constructions. 6 + 4
6. What are the different types of slope movement processes? How does the ground water influence the slope failure? 6 + 4
7. With the help of suitable diagram (3-D) define fold axis, fold axial plane, transverse profile, hinge line, inflection line, extrados and intrados surface. What are anticlinal and synclinal folds? 6 + 4