

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: M.TECH/PRE-PHD
BRANCH: ESE**

**SEMESTER : I/NA
SESSION : MO/18**

SUBJECT: CE565 EARTH SCIENCES

TIME: 3 HOURS

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
-

- Q.1(a) Compare the theories of earth's formation and suggest the most appropriate one. [5]
Q.1(b) Elaborate the concept of primary differentiation. [5]
- Q.2(a) Identify five most important properties for their identification. [5]
Q.2(b) Differentiate between metamorphic and sedimentary rock. [5]
- Q.3(a) Critically discuss the rock weathering processes. [5]
Q.3(b) Discuss the depositional forms of wind action. [5]
- Q.4(a) Identify suitable sites for dam and bridge construction keeping in mind the geological conditions. [5]
Q.4(b) Select the most suitable subsurface geological investigation methods for various geological investigations. [5]
- Q.5(a) Defend that disaster preparedness is the most useful step among the various steps of disaster management. [5]
Q.5(b) Formulate a disaster management plan for earthquake disaster starting from discussing the reasons to rehabilitation. [5]

:::05/12/2018:::M