B. TECH. SEM – III (CIVIL ENGG.) 2014 COURSE) (CBCS) :
SUMMER - 2018
SUBJECT: APPLIED GEOLOGY

Day: **Tuesday** | **S-2018-2231** | Time: **02.30 PM TO 05.30 PM**
Date: **22/05/2018** | Max Marks: 60

N.B:

1) All questions are **COMPLUSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw figures **WHEREVER** necessary.

Q.1 Describe in detail the process of mountain building. **(10)**

OR

a) Explain central type of volcanicity. **(05)**
b) Describe different types of unconformities. **(05)**

Q.2 Describe in detail rock weathering with suitable example. **(10)**

OR

a) Explain granitic and porphyritic textures in igneous rocks. **(05)**
b) Explain with sketch schistose and gneissose structures in metamorphic rocks. **(05)**

Q.3 What are faults? Describe in detail the various parts of fault and add a note on any two type of faults? **(10)**

OR

a) Describe with neat sketches Recumbent and Isoclinal fold. **(05)**
b) Describe the economic importance of Vindhyan system. **(05)**

Q.4 What is river rejuvenation? Describe features developed due to rejuvenation of rivers. **(10)**

OR

a) What are artesian wells? **(05)**
b) Explain depth zones of ground water. **(05)**

Q.5 What problem may have to be faced while tunneling through compact basalt **(10)**

OR

a) What are the methods of preservation of cores? **(05)**
b) Explain core recovery and RQD. **(05)**

Q.6 Describe preliminary geological investigation required for dam. **(10)**

OR

a) Explain the influence of nature and structure of rocks on bridge foundations. **(05)**
b) Explain dependence of water tightness on physical properties & structures of rocks. **(05)**

* * *