



# GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CE206U - Engineering Geology**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- 1) a) What is Igneous rock? How they form? What are the rock forming minerals? Explain Felsic & mafic minerals. [5]  
b) What is secondary rock? Explain in detail classification of secondary rocks. [5]
  - 2) a) What is metamorphism? Describe in detail agents & types of metamorphism. [5]  
b) What is rock weathering? Explain its different processes. [5]
  - 3) a) What is river rejuvenation & Explain various landforms resulted due to river erosion? [5]  
b) Explain the classification of earthquakes. [5]
  - 4) a) Explain in detail river terraces & Incised/entrenched meanders with neat sketches. [5]  
b) What is landslide? What are the preventive measures of landslides? [5]
  - 5) a) Explain in detail concordant & discordant structures of Igneous rocks. [5]  
b) Define fault. Describe various parts of faults. [5]
- OR**
- c) Define fold. How they creates? Describe different parts & types of fold with neat sketches. [5]
  - 6) a) Discuss in detail Tunneling through Deccan Trap basalts. [5]  
b) Explain about (i) Core Recovery (ii) Angle holes. [5]
- OR**
- c) Write in detail subsurface method of exploration. [5]

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