



**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
(An Autonomous Institute From A.Y. 2022-23)

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|  | InSem Examination-IISummer2024 |                       |  |
|  | Exam Seat No.:                 |                       |  |
|  | Academic Year:2023-2024        | Semester:IV           |  |
|  | Name of Programme:B.Tech       | Pattern:20            |  |
|  | Name of Course:Earth Sciences  | Course Code:CIV222015 |  |
|  | Max. Marks:30                  | Duration:1            |  |

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|  | <p><b>Instructions:</b> Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.</p> <ol style="list-style-type: none"><li>1. This question paper contains 2pages.</li><li>2. Answer to each new question is to be started on a new page.</li><li>3. Assume suitable data wherever required, but justify it.</li><li>4. Draw the neat labelled diagrams, wherever necessary.</li><li>5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.</li></ol> |  |
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**Question No. 1 Attempt following Question**

- a) Explain the Geology and its importance. (5) CO1, CO3

**OR**

- b) Explain different forms of Minerals with suitable examples. (5) CO1, CO3

- c) Write short note on : Rock cycle and Classification of Rocks. (5) CO1, CO3

**OR**

- d) Distinguish between plutonic and volcanic rocks and describe any two rocks from each category. (5) CO1, CO3

- e) Discuss the processes involved in the formation of metamorphic rocks. (5) CO1, CO3

**OR**

- f) Describe in details, classification of sedimentary rocks. (5) CO1, CO3

**Question No. 2 Attempt following Question**

- a) Define the following terms : (5) CO1, CO3

i. Outcrop

- ii. Dip
- iii. Fold
- iv. Strike
- v. Faults

**OR**

- b) Differentiate between angular unconformity and nonconformity. (5) CO2, CO3
- c) Explain various parts and types of folds with neat sketches. (5) CO2, CO3

**OR**

- d) How are rocks faulted? Describe various types and parts of a fault. (5) CO2, CO3
- e) Define igneous intrusions with labelled sketch and name two common types. (5) CO2, CO3

**OR**

- f) Differentiate between syncline and anticline folds. (5) CO2, CO3

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