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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

Reg.No.\_\_\_\_\_\_\_\_\_\_\_\_\_

**End Semester Examination – Nov/Dec - 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **10CE201/CE262** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Civil Engineering Materials and Geology / Engineering geology and Civil Engineering Materials** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | What is meteorology? | (1) |
| 2. | Define Mohorovicic Discontinuity. | (1) |
| 3. | Name the group of major crystal system. | (1) |
| 4. | What do you understand the term ‘tenacity’? | (1) |
| 5. | Contrast between intrusive and extrusive rock. | (1) |
| 6. | Name any two metamorphic rocks. | (1) |
| 7. | What is an outcrop? | (1) |
| 8. | Distinguish between the landslides and subsidence. | (1) |
| 9. | What are the raw materials used in manufacture of cement? | (1) |
| 10. | How the joints are formed in a rock? | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11 | What happens at tectonic plate boundaries? | (3) |
| 12 | Write down the classification of sedimentary rocks. | (3) |
| 13 | Name the parts of a fold and define them with neat sketch. | (3) |
| 14 | Define ‘Seasoning of timber’. | (3) |
| 15 | Give in detail about the most common defects of timber. | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. | a. | Explain the earth structure based on seismological evidence and its components of earth surface with neat sketch. | (15) |
| (OR) | | | |
| 17. | a. | Outline the geological work of Sea explaining the process of erosion transportation and deposition. | (10) |
| b. | Explain in detail the process of weathering and its types. | (5) |
| 18. | a. | Describe the physical properties of minerals. | (10) |
| b. | What is an outcrop? Explain the types of outcrops. | (5) |
| (OR) | | | |
| 19. | a. | Describe the origin, composition and uses of any three of the following rocks  i. Phyllite ii. Quartzite ii. Slate iv. Marble | (15) |
| 20. | a. | Briefly discuss about the different types of folds and its significance. | (15) |
| (OR) | | | |
| 21. | a. | Explain the different types of geophysical methods of investigation. | (15) |
| 22. | a. | Describe with flow diagram the dry process of manufacture of cement. | (15) |
| (OR) | | | |
| 23. | a. | Enumerate the properties, types and different tests are usually carried out to determine the quality of bricks. | (15) |
| 24. | a. | Discuss about the properties and manufacture process for the following building materials  i. Glass ii. Rubber iii. Aluminium | (15) |
| (OR) | | | |
| 25. | a. | Explain the common process of heat treatment of steel. | (10) |
| b. | Name the different forms of steel which is available in the market. | (5) |

ALL THE BEST