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

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18CE2007** | **Duration :** | **3hrs** |
| **Sub. Name :** | **GEOLOGY AND MATERIALS** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course**  **Outcome** | **Marks** |
| **PART – A (10X1 = 10 MARKS)** | | | |
| 1. | What is the composition of crust? | CO1 | 1 |
| 2. | List out any two geological work of sea. | CO1 | 1 |
| 3. | What are the features interpreted from geological maps? | CO2 | 1 |
| 4. | What are the types of joints? | CO2 | 1 |
| 5. | What is the mix ratio of M20 concrete? | CO3 | 1 |
| 6. | What do you mean by seasoning of timber? | CO3 | 1 |
| 7. | What are the composisitons of ceramics? | CO4 | 1 |
| 8. | What is the application of geotextile in landslide prevention? | CO4 | 1 |
| 9. | List out any two corrosion resistant materials. | CO5 | 1 |
| 10. | Whar are the types of colour coated sheets available in market? | CO5 | 1 |

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| **PART – B (6 X 3 = 18 MARKS)** | | | |
| 11. | What are the importances of engineering geology in civil engineering? | CO1 | 3 |
| 12. | Differentiate between seismic reflection and refraction survey with their uses. | CO2 | 3 |
| 13. | List out the types of glass with their applications. | CO3 | 3 |
| 14. | Differentiate between geomembrane and geotextiles with their applications. | CO4 | 3 |
| 15. | What are the characteristics of light gauge steels? | CO5 | 3 |
| 16. | List out the types of flooring materials. | CO6 | 3 |

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| **PART – C (6 X 12 = 72 MARKS)**  **(Answer any five Questions from Q.no 17 to 23. Q.No 24 is a Compulsory Question)** | | | | |
| 17. | a. | Discuss the internal structure of Earth with sketch. | CO1 | 6 |
| b. | Summarize the different physical properties studied to identify minerals in hand specimen. | CO1 | 6 |
| 18. | a. | Write the description, occurrence and engineering properties of granite, sandstone, limestone and gneiss. | CO2 | 6 |
| b. | Summarize the electrical resistivity method for subsurface investigation. | CO2 | 6 |
| 19. | a. | Discuss various classifications and defects of timber. | CO3 | 6 |
| b. | Summarize the properties of various types of cements. | CO3 | 6 |
| 20. | a. | Write different types of plastics and fiber reinforced plastics with their uses. | CO4 | 6 |
| b. | Evaluate different types of composite materials with their uses. | CO4 | 6 |
| 21. | a. | Discuss different types of structural steels with their characteristics. | CO5 | 6 |
| b. | Discuss various types of water proofing materials with their applications. | CO5 | 6 |
| 22. | a. | Discuss the engineering significance of clay minerals. | CO1 | 6 |
| b. | Evaluate the geological conditions suitable for site selection of tunnels. | CO2 | 6 |
| 23. | a. | Discuss different types of bricks with their characteristics. | CO3 | 6 |
| b. | Demonstrate different types of fold with sketch. | CO2 | 6 |
| **Compulsory:** | | | |  |
| 24. | a. | Discuss the characteristics, advantages and disadvantages of different flooring materials. | CO6 | 6 |
| b. | Evaluate the salient features of various acoustic treatment materials. | CO6 | 6 |