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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**End Semester Examination – April/May– 2017**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **15EE2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **TESTING AND COMMISSIONING OF ELCTRICAL EQUIPMENT** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Describe the various categories of tests on three phase induction motor. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | State and explain the various tests performed on power transformers. | CO1 | 20 |
| 3. | a. | Recall the facets of Site Management? | CO2 | 14 |
|  | b. | Distinguish between construction phase, operation and maintenance phase of electrical plant/equipment. | CO2 | 6 |
| (OR) | | | | |
| 4. | a. | Point out the aspects to be considered for choosing an electric motor for particular drive. | CO1 | 8 |
|  | b. | Elaborate the various types of electric motors, their design features, torque-speed characteristics and applications. | CO1 | 12 |
| 5. |  | Discuss the procedure of installation of circuit breakers and metal clad switch gears. | CO1 | 20 |
| (OR) | | | | |
| 6. | a. | Define a contactor and state its functions. | CO2 | 10 |
|  | b. | Compare contactor and circuit breaker. Mention the types of contactors. | CO2 | 10 |
| 7. | a. | Describe the testing of surge arrestors. | CO2 | 10 |
|  | b. | Explain principle of coordination of protective devices in residential and commercial installations. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | Identify the significance of ISO 9000 Certification. | CO3 | 10 |
|  | b. | Mention the importance of BVQI Cetificate of Quality. | CO3 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Briefly explain the tests before commissioning and after commissioning of alternators. | CO2 | 10 |
|  | b. | List down and explain the various tests that are performed during testing and commissioning of current transformers. | CO1 | 10 |

ALL THE BEST