



B.E. DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Fourth Semester

ELECTRONICS AND INSTRUMENTATION ENGINEERING

U18EIT4005: Ancillary Support System

COURSE OUTCOMES

- CO1:** Evaluate the basic principles of EMI/EMC problem identification, design, and prevention.
CO2: Detail earthing and shielding principles, procedures and practices.
CO3: Evaluate the principles of power distribution systems and system components.
CO4: Develop a wiring diagram for a control panel.
CO5: Examine in detail, the protection and control and aspects of electric motors.
CO6: Illustrate the operation of hydraulic and pneumatic systems.

Time: Three Hours

Maximum Marks: 100

**Answer all the Questions:-
 PART A (10 x 2 = 20 Marks)
 (Answer not more than 40 words)**

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| 1. Explain the need for Earthing in electrical circuits. | CO1 [K ₂] |
| 2. Summarize different types of gaskets used in electronics circuits. | CO1 [K ₂] |
| 3. State the effects of short circuit and open circuit in electronics circuit board. | CO2 [K ₂] |
| 4. Examine the method of measuring the value of resistance in a conductor. | CO2 [K ₂] |
| 5. Distinguish between wiring diagram and Lining diagram with Latch Circuit. | CO3 [K ₂] |
| 6. Categorize the power cables used in electrical panels. | CO4 [K ₂] |
| 7. Reason out why most of the induction motors are not run in star connected? | CO5 [K ₂] |
| 8. What happens when a AC motor is connected across an DC supply? | CO5 [K ₂] |
| 9. List the important properties of hydraulic oil. | CO6 [K ₂] |
| 10. Differentiate absolute and kinematic velocity. | CO6 [K ₂] |

