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| **QUESTIONBANK(DESCRIPTIVE)**  **Subject Name withCode:ELECTRICAL SAFETY PRACTICES AND STANDARDS(23A01505b)**  **Course&Branch:Year& Semester: III-I&ECE,CSERegulation:RG23** | |

**UNIT - I**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define Electric Shock? | L2,CO1,2 M |
|  | **Define First Aid?** | L2,CO1,2 M |
|  | What are the fundamentals of electrical safety? | L2,CO1,2 M |
|  | What are the physiological effects of electrical shock? | L3,CO1,2 M |
|  | What are the 5 levels of electric shock? | L3,CO1,2 M |
|  | What are the examples of electrical hazards? | L2,CO1,2 M |
|  | What are electrical safety tips? | L1,CO1,2 M |
|  | What are safety rules? | L1,CO1,2 M |
|  | What is the minimum current for shock? | L1,CO1,2 M |
|  | What are four main types of electrical injuries? | L3,CO1,2 M |
|  | What is primary electric shock? | L1,CO1,2 M |
|  | What is the principle of electric shock? | **L1, CO1, 2 M** |
|  | What is a safety requirement? | **L1, CO1, 2 M** |
|  | What is an example of a safety requirement? | **L1, CO1, 2 M** |
| **Descriptive Questions (Long)** | | |
|  | What are the principles of electrical safety? | L3, CO1,10 M |
|  | Define Electrical safety. What are the objectives of electrical safety? | L2 CO1,10 M |
|  | Define Electric Shock?Explain the classifications of Electric Shock | L2 CO1,10 M |
|  | Briefly explain the physiological effects of electric current? | L2 CO1,10 M |
|  | Briefly explain Safety requirements to avoid the electric Shocks? | L2 CO1,8 M  L2,CO1,4 M |
|  | Briefly explain the general Hazards of electricity? | L2 CO1,10 M |
|  | Briefly explain Arc– Blast? What are the primary hazards associated  With arc blast | L2 CO1,10 M |
|  | Explain the causes for electrical failure. | L2 CO1,10 M |

**UNIT - II**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define Stranded conductors? | **L1, CO2, 2 M** |
|  | Define Bundled Conductor | **L2, CO2, 2 M** |
|  | Explain the properties in High Resistivity or Low Conductivity Conducting Material? | **L2, CO2, 2 M** |
|  | Explain classification of cables? | **L2, CO2, 2 M** |
|  | Define static wire? | **L2, CO2, 2 M** |
|  | Explain classification of voltages? | **L1, CO2, 2 M** |
|  | Define voltage surge? | **L2, CO2, 2 M** |
|  | Explain methods for over voltage protection? | **L1, CO2, 2 M** |
|  | Define Static Electricity? | **L2, CO2, 2 M** |
|  | What are the causes for static Electricity? | **L2, CO2, 2 M** |
| **Descriptive Questions (Long)** | | |
|  | Define conductors? Briefly explain classification of conductors | **L2, CO2, 10 M** |
|  | Defineinsulator? Briefly explain different types of insulators | **L2, CO2, 10 M** |
|  | Briefly explain voltage classification | **L2, CO2, 10 M** |
|  | Explain about safety against over voltages | **L2, CO2, 10 M** |
|  | Explain about safety against static electricity | **L2, CO2, 10 M** |
|  | Explain about Electrical safety equipment’s | **L3, CO2, 10 M** |
|  | Explain about Fire extinguishers for electrical safety | **L2, CO2, 10 M** |

**UNIT - III**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define grounding? | **L2, CO3, 2 M** |
|  | Define bonding? | **L2, CO3, 2 M** |
|  | Define **System Grounding?** | **L2, CO3, 2 M** |
|  | Define **Equipment Grounding?** | **L1, CO3, 2 M** |
|  | Explain methods for Determining Safe Approach Distance? | **L1, CO3, 2 M** |
| **Descriptive Questions (Long)** | | |
|  | Briefly explain the general requirements for grounding and bonding? | **L2, CO3, 10 M** |
|  | Explain System grounding? | **L2, CO3, 10 M** |
|  | Explain Equipment grounding? | **L2, CO3, 10 M** |
|  | Explain Earthing practices? | **L2, CO3, 10 M** |
|  | Determining safe approach distance-Determining arc hazard category? | **L1, CO3, 10 M** |

**UNIT - IV**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define first aid | L3, CO4, 2 M |
|  | **Explain Personal Protective Equipment (PPE)** | L1, CO4, 2 M |
|  | What are the Specific Precautions for Power Tools? | L1, CO4, 2 M |
|  | What are the safety rules for hand tools? | L2, CO4, 2 M |
|  | What is safe handling of tools? | L2, CO4, 2 M |
|  | What are the basic rules for hand safety? | L2, CO4, 2 M |
| **Descriptive Questions (Long)** | | |
|  | Explain General first aid? | L2, CO4, 10 M |
|  | Explain Safety in handling hand held electrical appliances tools? | L2, CO4, 10 M |
|  | Explain Electrical safety in train stations? | L2, CO4, 10 M |
|  | Explain Electrical safety in swimming pools? | L2, CO4, 10 M |
|  | Explain Electrical safety in external lighting installations? | L2, CO4, 10 M |
|  | Explain Electrical safety in medical locations | L2, CO4, 10 M |
|  | Explain the Different Types lighting systems | L2, CO,5 10 M |
|  | Explain the Fundamentals needs of first aid kits | L2, CO,5 10 M |

**UNIT - V**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | What is the NFPA 70 standard? | **L2, CO6, 2 M** |
|  | What is the NFPA 70E electrical safety? | **L2, CO6, 2 M** |
|  | What is the NFPa standard for the national electrical code? | **L3, CO6, 2 M** |
|  | What is the National Electrical Code NEC also known as NFPA 70? | **L2, CO6, 2 M** |
|  | What are NFPA rules? | **L2, CO6, 2 M** |
|  | What is the difference between NFPA 70 and NFPA 70E? | **L1, CO6, 2 M** |
|  | What is the full form of NFPA 70E? | **L2, CO6, 2 M** |
|  | How many class of fire as per the NFPa standard? | **L2, CO6, 2 M** |
| **sDescriptive Questions (Long)** | | |
|  | Briefly explain Electricity Acts | **L2, CO6, 10 M** |
|  | Explain the Rules & regulations | **L2, CO6, 10 M** |
|  | Briefly explain Electrical standards NFPA 70 E-OSHA standards | **L2, CO6, 10 M** |
|  | Briefly explain National Electrical Code 2005 | **L2, CO6, 10 M** |
|  | Briefly explain National Electric Safety code NESC | **L3, CO6, 10 M** |
|  | Briefly explain Statutory requirements from electrical inspectorate | **L2, CO6, 10 M** |

**Signature of the Staff:**

**Signature of Department Academic Committee Member 1:**

**Signature of Department Academic Committee Member 2:**

**Signature of Department Academic Committee Member 3:**