

SECTION-B

Note: Short Answer Questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 What are temperature sensors? Explain.
- Q.12 What are multiplexers? Show a truth table and block diagram of 8:1 multiplexer.
- Q.13 Explain the working of capacitance switches.
- Q.14 Explain glass break detectors and its applications.
- Q.15 Explain the types of heat sensors.
- Q.16 What are door and window contacts types? Explain their working.
- Q.17 Explain the types of keypads with their relative merits.
- Q.18 Explain the function of system controller.

SECTION-C

Note: Long answer questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 Explain gain and signal distortion. Show their practical utility in electronic equipments.
- Q.20 Explain the components used in smoke detector. Draw a block diagram of the circuit.

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Roll No.....

DVOC Level 5 Sem-1

Branch : Elect. Manufacturing Services

Sub : Identification of Components, Tools, SOP & Work Instructions-I

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very Short answer questions. Attempt all ten questions. (10x1=10)

- Q.1 Define Gain.
- Q.2 Why is Carbon monoxide is more dangerous than CO₂?
- Q.3 Define a flip flop.
- Q.4 An 8:1 multiplexer will have _____ number of select lines.
- Q.5 Give a practical application of counters.
- Q.6 Define water bus.
- Q.7 Define amplification factor.
- Q.8 Draw the symbol of NAND gate.
- Q.9 Why any On-Off input can be controlled in digital form?
- Q.10 What are keypads used for, in electronic equipments?