Dvoc - Level -5

1st Sem / Elect. Manufacturing Servcies

**Subject : Identification of Components,
Tools, SOP & work Instructions-I**

Time : 2 Hrs.   M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions.

(10x1=10)

Q.1   Which colour is to be powder coated printed on control panel as per IE rule ?

    a)   light blue   b)   siemens grey

    c)   yellow   d)   dark blue

Q.2   Which electrical item are to be fitted in a control pannel?

Q.3   Name any two types of keyboards used in electronics circuit

Q.4   Which sensor is LM35 ?

Q.5   How many pins does temperature sensor have and why ?

Q.6   Define water bus.

Q.7 How many 3 * 8 decoders are required to be construct a 4 * 16 decoders ?

Q.8 Which electronics circuit converts binary coded information to unique output such as decimal octal digits etc.

Q.9 Define gates and their function.

Q.10 Name any two layers of TCP / IP stack.

SECTION-B

Note: Short answer type questions. Attempt any Six questions out of eight questions. (6x5=30)

Q.11 Explain configuration and functions of system controller.

Q.12 Explain the circuit and working of motion detectors

Q.13 Explain the working of smoke detector

Q.14 What are flip flops ? Explain the working of RS flip flop

Q.15 Write a short note on Decoders

Q.16 What are logic gates? Explain Universal gates

Q.17 What are counters? Explain their functions

Q.18 Explain working of rotory switches.

SECTION-C

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

Q.19 Explain the concept of amplification factor and its practical importance

Q.20 Explain TCP/TP for communication purpose and for digital network and its circuit.