No. of Printed Pages : 2 188563

Roll No. .....

DVOC (Level 5)

Sem 2nd / Medical Imaging Tech.

Subject : Soldering & De-soldering components & Emergency actions

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short answer type questions . Attempt all ten question (10x1=10)

Q.1 5R60 write on a SMD resistor value of_____.

Q.2 Select the component, which is not an example of passive SMD component:

a) Thick film resistor
b) Tantalum capacitor
c) Diode
d) Ceramic capacitor

Q.3 Identify the IC package which is not included in SMD component.

a) PLCC
b) PPGA
c) BGA
d) DRP

Q.4 Heat for soldering process is supplied by_____.

a) Soldering iron
b) Induction furnace
c) Electric resistance method
d) Any of the above

Q.5 SMD crystal oscillators provide_____signals for the system.

a) AC b) DC
c) Clock d) None of these

Q.6 What does VCC and GND stands for ?

Q.7 EAP stands for _____

Q.8 What do you mean the polarity of SMD components?

Q.9 Define Reporting Emergency.

Q.10 SDM stands for _____

SECTION-B

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

Q.11 What are the basic requirements for the SMD soldering?

Q.12 Define soldering station. write about the setup required for SMD soldering station.

Q.13 What are the minimum elements requirements for EAP ?

Q.14 Explain with suitable diagrams the different configurations for soldering.

Q.15 write the requirements for making a panel board using different types of switches.

Q.16 List different types of emergency.

Q.17 What are the suitable locations for the extinguishers and Fire Alarm Pull stations ?

Q.18 Write the common instruction for free emergency?

SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

Q.19 Describe the identification of 2 , 3 , 4 terminal SDM components like resistors, Capacitors Resisters, and ICs.

Q.20 Write short notes on any two:

a) Reliable soldering Practices
b) Emergency exits
c) Medical services.