

## **SECTION-D**

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

Q.19 Explain the different types of connectors used in electric circuits in detail.

Q.20 What is an optical fibre cable? Discuss its various parts. Also give classification of optical fibre cables.

No. of Printed Pages : 4

Roll No. ....

188553

**Level - 5**

**1st Sem / DVOC (Medical Imaging Technology)**

**Subject : Tools, Equipment & Safety Measures- I**

Time : 2 Hrs.

M.M. : 50

## **SECTION-A**

**Note:** Multiple Choice questions. All questions are compulsory. (5x1=5)

Q.1 One of the benefits of encasing a twisted pair cable in a metal foil covering is \_\_\_\_\_?

- a) reduction of crosstalk
- b) increase in crosstalk
- c) decrease in costs
- d) increase in flexibility

Q.2 What is the use of Armouring?

- a) To protect cable from moisture
- b) To protect cable from corrosion
- c) To protect cable from mechanical injury
- d) All of the above

Q.3 Out of following, which type of connector is most frequently used UTP is \_\_\_\_\_

- a) SC/ST
- b) RJ 45
- c) JR 45
- d) RS-232

Q.4 The \_\_\_\_\_ is surrounded by the \_\_\_\_\_ in a fiber-optic cable.

- a) fiber, cladding
- b) core, fiber
- c) core, cladding
- d) Classing, core

Q.5 ESD in common terminology refers to \_\_\_\_\_

- a) electrostatic discharge
- b) electric discharge
- c) electronic discharge
- d) elastic discharge

## SECTION-B

**Note:** Objective type questions. All questions are compulsory.  $(5 \times 1 = 5)$

Q.6 Which type of cable is used in making cord of high-powerdomestic appliances?

Q.7 Which type of cable is used in telephone lines?

Q.8 Name the connector used for twisted pair cables.

Q.9 Name any two materials used in making ESD clothing.

Q.10 Tell two applications of Twin-lead cable.

## SECTION-C

**Note:** Short answer type questions. Attempt any six questions out of Eight questions.  $(6 \times 5 = 30)$

Q.11 Distinguish between Armoured and unarmoured cables.

Q.12 Draw and explain the parts of Coaxial cables.

Q.13 Explain five requirements of ESD clothing.

Q.14 Which kind of cables are used in computer networking? Explain its configuration.

Q.15 How multi-conductors cables are designed?

Q.16 Write five advantages of wearing ESD clothing.

Q.17 Explain five applications of Twin axial cables.

Q.18 Explain any five connectors used in electric circuits.