

Q.18 Differentiate between Metallic and Non-metallic sheathed cable.

### SECTION-D

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

Q.19 Distinguish between Armoured and un-Armoured cables in detail.

Q.20 Explain working principle of optical fibre cable. Also give classification of optical fibre cable.

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### 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 Thickness of insulation layer over conductor materials depends upon \_\_\_\_\_

- a) frequency                      b) power factor
- c) voltage                         d) All of the above

Q.2 BNC connector is used with which type of cable?

- a) Co-axial
- b) optical fibre
- c) Shielded twisted pair
- d) un-shielded twisted pair

Q.3 In a cables, sheaths are used to \_\_\_\_\_

- a) provide proper insulation
- b) provide enough strength
- c) prevent the moisture from entering the cable
- d) None of the above

Q.4 UTP is popular in LAN technology due to its \_\_\_\_\_

- a) flexibility                      b) low cost
- c) ease of installation      d) All of the above

Q.5 To reduce the risk of ESD damage, \_\_\_\_\_

- a) ground yourself
- b) make sure the equipment is on
- c) touch the equipment to plastic
- d) keep the equipment to plastic

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (5x1=5)

Q.6 Which type of connector is used in telephones lines?

Q.7 What is the full form of ESD?

Q.8 Mention two applications of Co-axial cable.

Q.9 Which type of cable is used in cable or Dish tv?

Q.10 Give two applications of Grounded power supply cable.

### SECTION-C

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

Q.11 Give applications of Ribbon cables used in electronic circuits.

Q.12 Explain any five connectors used in electric circuits.

Q.13 Draw and explain functions of each part of an unarmoured cable.

Q.14 Differentiate between Shielded twisted and Unshielded twisted pair cable.

Q.15 Give atleast five applications of Armoured cables.

Q.16 Distinguish between cables used for Grounded and Ungrounded power supply.

Q.17 Explain five applications of Twin Led cables.