

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 _____

(80)

(4)

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- 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. $(5 \times 1 = 5)$

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. $(6 \times 5 = 30)$

- 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.