

- Q.6 The most common type twin lead used is \_\_\_\_\_ (600/300/75) ohm.
- Q.7 Define connector.
- Q.8 PVC stands for \_\_\_\_\_
- Q.9 Which type of optical fibre cable is used in telephone lines?
- Q.10 ESD stands for \_\_\_\_\_

### **SECTION-B**

- Note:** Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)
- Q.11 Explain the uses of Non-metallic sheathed cable.
- Q.12 Differentiate between Grounded and Un Grounded Power Supply cable
- Q.13 Write short note on multi-conductor cable and its types.
- Q.14 Explain the construction of steel wore Armored Cable.
- Q.15 What are twisted pair cables? What are its types?
- Q.16 What are the advantages and disadvantages of oil-filled cables?
- Q.17 Explain with diagram, the different types of optical fiber cable.
- Q.18 Explain any five connectors used in Electrical Circuit Connections.

### **SECTION-C**

- Note:** Long answer type questions. Attempt any one question out of two questions. (10x1=10)
- Q.19 Explain in detail, the construction diagram of coaxial cable and write its advantages, disadvantages and applications.
- Q.20 Write short note on any two;
- Metallic and Non-Metallic sheathed cable.
  - Comparison between Twisted pair, Coaxial and Optical fibre cable
  - ESD Clothing, what to wear and how to wear?

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DVOC (Level 5 )  
Sem 1st / Medical Imaging Tech.  
Subject : Tools , Equipment and safety Measures-I

Time : 2 Hrs. M.M. : 50

### **SECTION-A**

- Note:** Very short answer type questions . Attempt all ten question (10x1=10)
- Q.1 Which of the following is NOT an example of electrical safety equipment?  
 a) Voltage tester      b) Insulated gloves  
 c) Wire cutter      d) Safety goggles
- Q.2 What does the term “ground fault” refer to in electrical systems?  
 a) A connection between a live wire and the ground  
 b) A circuit with no electricity flowing through it  
 c) A damaged electrical cord  
 d) A short circuit
- Q.3 In a cable, \_\_\_\_\_ is provided immediately above metallic sheath.  
 a) Earthing connection      b) Bedding  
 c) Armouring      d) None of these
- Q.4 In Guided Media transmission using twisted pair, the twisting of cables is done;  
 a) To avoid the cross talk between adjacent pairs.  
 b) To increase the bandwidth for transmission  
 c) To avoid the physical damage to the wires  
 d) All of the above
- Q.5 Which cable will be preferred for connecting an electric iron to a socket ?  
 a) Two core PVC cable  
 b) Three core PVC cable  
 c) Three core cotton covered cable  
 d) two core cotton covered cable.