

- Q.7 The connector used for connecting a pair of external loudspeakers to a personal computer is called \_\_\_\_\_.  
 a) FTP Connector      b) RCA Connector  
 c) DB Connector      d) BNC Connector
- Q.8 \_\_\_\_\_ is also called as Twin-lead transmission line.
- Q.9 To control ESD, its best to wear clothes made of \_\_\_\_\_. (Cotton/Polyester)
- Q.10 What is ESD clothing?

### **SECTION-B**

- Note:** Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)
- Q.11 What do you mean by Non-Metallic Sheathed Cable? What are its advantages?
- Q.12 What is the main reason for providing metallic sheath in underground cables?
- Q.13 What is coaxial cable? What are the types of coaxial cable?
- Q.14 How are twisted pair cables classified?
- Q.15 Write the features of twin-lead cable.
- Q.16 Differentiate between single mode and multimode optical fiber cable.
- Q.17 What is ESD clothing and how does it works?
- Q.18 Explain the configuration of the cable used in computer networking.

### **SECTION-C**

- Note:** Long answer type questions. Attempt any one questions out of two questions. (1x10=10)
- Q.19 Write down the differences and similarities between unshielded and shielded twisted pair cables.
- Q.20 Draw the construction diagram of optical fiber cable. Write advantages, disadvantages and applications of optical fiber cable.

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**Level 5 / 1st. Sem. / DVOC**

**Medical Imaging Tech.**

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

Time : 2 Hrs.

M.M. : 50

### **SECTION-A**

**Note:** Very short answer type questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following types of wires are also known by the brand name Romex?  
 a) Triplex Wires  
 b) Panel Feed Wires  
 c) Single Strand Wires  
 d) Non-Metallic Sheathed Wires
- Q.2 What materials are used for metallic sheath?  
 a) Lead  
 b) Lead Alloy and Aluminum  
 c) Both a & b  
 d) None of the above
- Q.3 Sheaths are used in underground cables to:  
 a) Provide proper insulation  
 b) Provide mechanical strength  
 c) Protect the cable from moisture  
 d) None of the above
- Q.4 Name the usually used material for armouring on cable.
- Q.5 Write any two applications of coaxial cable.
- Q.6 The most common unshielded twisted pair connector is \_\_\_\_\_.  
 a) RJ-59                          b) RJ-45  
 c) RJ-11                            d) RJ-58

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