

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.

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Roll No.

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) Cladding, 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. (5x1=5)

- Q.6 Which type of cable is used in making cord of high-power domestic 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. (6x5=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.