



PAS-003-1152003

Seat No. _____

M. Sc. (Electronics) (Sem. II) Examination

August - 2020

Paper - 7 : Digital Communication System

Faculty Code : 003

Subject Code : 1152003

Time : Hours]

[Total Marks : **70**

- Instructions :** (1) All questions carry equal marks.
(2) Figures on right hand side indicate marks.

1 Answer the following in brief : (Any **Seven**) **14**

- (1) Explain Digital Radio.
- (2) What are the three most predominant modulation schemes used in digital radio.
- (3) Define ASK.
- (4) Define Carrier recovery.
- (5) Explain quantizing.
- (6) Define Companding.
- (7) Define multiplexing.
- (8) What is codec?
- (9) What is local subscriber loop?
- (10) What is the purpose of the RJ-11 connector?

2 Answer any **two** : **14**

- (1) What is the purpose of a clock recovery circuit? When it is used?
- (2) Write note on FSK transmitter and Receiver.
- (3) Explain balanced ring modulator.

3 Answer the following : **14**

- (1) Explain simplified block diagram of single-channel PCM transmission system.
- (2) Explain Folded Binary Code.

OR

- 3** Answer the following : **14**
- (1) Write note on Analog Companding.
 - (2) Write note on Delta Modulation PCM.
- 4** Answer the following : **14**
- (1) Write note on Multiplexing.
 - (2) Explain Two channel PCM TDM System.
- 5** Answer the following : (Any **Two**) **14**
- (1) Write note on history of basic telephone system.
 - (2) Write note on Basic Functions of the telephone set.
 - (3) Explain functional block diagram of standard telephone set.
 - (4) Explain cordless telephone system.
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