

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-477

M.Sc. (Final) Examination, 2023

INFORMATION TECHNOLOGY

Paper - MIT-206(C)

(Communication Theory)

Time : 3 Hours]

[Maximum Marks : 50

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) Define Transmission Media.
- (ii) What do you mean by Spread Spectrum ?

BRI-564

(1)

BFMS-477 P.T.O.

- (iii) What is the full form of AM-DSB/SC ?
- (iv) What are SSB signals ?
- (v) What is Bandwidth ?
- (vi) Define AM and FM.
- (vii) What is IEEE802.16 ?
- (viii) Define CDMA.
- (ix) What is WAP ?
- (x) Define Snooping.

Section-B

2. Write advantages of Digital Communication.

Or

Explain Multiplexing.

3. Explain generation of AM-DSB.

Or

Explain modulation circuits of AM system.

4. Differentiate between AM, FM and PM.

Or

Explain narrow band.

5. Define DAB and write factors of DAB.

Or

Differentiate between FDMA and CDMA.

6. What is Ad hoc network and explain classification of Ad hoc network ?

Or

What do you understand by File System ?

Section-C

7. Explain guided and unguided transmission media.
8. Explain modulation of AM-DSB, AM-DSB/SC and AM-SSB signal.
9. What do you mean by Phase and Frequency modulation ? Explain difference between phase and frequency modulation.
10. Write short notes on the following :
 - (a) MAC
 - (b) CSMA
 - (c) Collision avoidance
11. Write short notes on the following :
 - (a) Indirect TCP (I-TCP)
 - (b) Snooping TCP
 - (c) Mobile TCP