

NETTUR TECHNICAL TRAINING FOUNDATION
DIPLOMA IN ELECTRONICS ENGINEERING & EMBEDDED SYSTEM – CP04
III SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JAN 2023

Subject: Analog Communication
Subject Code: CP04305T

Total Time: 2 Hr.
Total Marks: 50 Marks

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING **2*8=16**

- 1.1 Write the classification of filters based on frequency spectrum
- 1.2 Define selectivity and bandwidth
- 1.3 List the types of FM detectors
- 1.4 Why modulation Index is kept low?
- 1.5 What is the difference between USB & OTG cable?
- 1.6 How does an antenna work?
- 1.7 Write the expansions of the following
a) CCTV b) HDTV c) MATV d) CRT.
- 1.8 Define Sonar and List the types of Sonar
- 1.9 What do you mean by scattering of Light?
- 1.10 What are the common Satellite Sub systems?

2.0 ANSWER ANY SIX OF THE FOLLOWING **3*6=18**

- 2.1 Plot the ideal characteristics of Passive LPF, HPF, BPF and BRN
- 2.2 What is the difference between Symmetrical & asymmetrical attenuators?
- 2.3 Draw and explain the block diagram of electronic communication system
- 2.4 Write the Comparison between AM and FM
- 2.5 List any 6 types of Antennas with examples and Application
- 2.6 What are the applications of Radar in ATC?
- 2.7 State Total Internal Reflection with diagram
- 2.8 Define Apogee and Perigee with diagram

3.0 ANSWER ANY FOUR OF THE FOLLOWING **4*4=16**

- 3.1 Explain the working of AM modulator using diode with circuit diagram
- 3.2 Draw & explain the circuit of envelope detector
- 3.3 Explain the working of Loud Speaker with neat diagram
- 3.4 Explain the working of primary radar with Block diagram
- 3.5 Explain the types of optical fiber based on index with necessary diagrams
- 3.6 Explain LEO, MEO and GEO with diagram

