

**U.G. 6th Semester Examination - 2022**

**PHYSICS**

**[HONOURS]**

**Course Code : PHYS(H)DSE3-P**

**[PRACTICAL]**

Full Marks : 10

Time : 4 Hours

Perform any **one** of the following experiments.

1. Perform Amplitude Modulation, Transmitter and Receiver :

(a) Connect the circuit.

(b) Study the variation of Modulation index with Message signal voltage and Carrier signal voltage.

(c) Draw a graphical representation of Message signal, Carrier signal, Modulated signal and Demodulator signal.

(2+3+5)

2. Perform the Pulse Amplitude Modulation, Transmitter and Receiver :

(a) Connect the circuit.

(b) Draw a graphical representation of :

(i) Message signal,

(ii) Carrier Pulse signal,

(iii) Modulated signal,

(iv) Demodulator signal.

(2+2+2+2+2)

3. Perform the Pulse Width Modulation, Transmitter and Receiver :

(a) Connect the circuit.

(b) Draw a graphical representation of :

(i) Message signal,

(ii) Carrier signal,

(iii) Modulated signal

and (iv) Demodulator signal.

(2+2+2+2+2)