

**B.SC. HONOURS (DSE) 6<sup>th</sup> SEMESTER PRACTICAL EXAMINATION 2021**  
**KANDI RAJ COLLEGE**  
**DEPARTMENT OF PHYSICS**

**SEMESTER: 6<sup>th</sup>**  
**PAPER CODE: PHY-H-DSE-P-03**

**STREAM: Honours (DSE)**  
**Paper: COMMUNICATION ELECTRONICS**

**Full marks: 20**

**Answer Any Four questions of the following:**

**4×5=20**

1. What is Amplitude modulation? Explain the operation of Amplitude modulator using Transistor. 1+4
2. What are the advantages of SSB modulation? Explain the operation of Envelope detector for Demodulation of AM signal. 2+3
3. What is frequency modulation? Explain the operation of Reactance modulator for generation of FM signal. 1+4
4. What do you understand by PAM? Explain the modulation technique of PAM signal. 1+4
5. What is Pulse Width Modulation (PWM)?
6. What do you understand by multiplexing? Explain briefly about Time Division Multiplexing. 1+4
7. What is digital Modulation? What is ASK? Explain the operation of ASK modulator. 1+1+3