

- Q.22 Draw & Explain electric force balance DPT.  
Q.23 Write the advantages of land line telemetry system.  
Q.24 Discuss basic principle of PSK  
Q.25 What do you mean by demodulation. Explain.  
Q.26 Write a note on ratio system.  
Q.27 Draw input and output waveforms of AM transmitter.  
Q.28 Discuss pilot relay.  
Q.29 Explain position telemetry system.  
Q.30 Describe PDPT bellows type transmitter.  
Q.31 Explain the principle of Electric transmitter.  
Q.32 Draw and explain the Ask modulator.  
Q.33 Explain basic concept of PAM.  
Q.34 Describe the demodulation of FSK.  
Q.35 Explain Nozzle Flapper system in brief.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in detail modern communication system with the help of neat block diagram.  
Q.37 What is pulse modulation. Explain in detail the pulse width modulation.  
Q.38 Write note on:  
a. Hydraulic transmitter  
b. Comparison of FM and PM

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**4th Sem / Branch : Electronics and Instrumentation  
Subject:- Communication and Telemetry/ Fund. of Telemetry**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 In pulse time modulation  
a) Amplitude of the carrier is constant  
b) Position or width of the carrier varies with modulating signal  
c) PWM and PPM are the types of PTM  
d) All of the above
- Q.2 The full form of PAM is  
a) pulse amplitude modulation  
b) positive amplitude modulation  
c) phase amplitude modulation  
d) None of these
- Q.3 The modulation is done in  
a) Radio receiver  
b) Transmitter  
c) between transmitter and receiver  
d) None of these

- Q.4 In an AM wave, useful power is carried by  
 a) Carrier  
 b) Sidebands  
 c) Carrier and both sidebands  
 d) None of these
- Q.5 Which multiplexing is used to transmit digital signal  
 a) FDM                      b) TDM  
 c) WDM                      d) FDM & WDM
- Q.6 .....is a type of digital modulation.  
 a) Amplitude modulation  
 b) Frequency modulation  
 c) Frequency shift keying  
 d) Phase modulation
- Q.7 Which of the following represents telemetry?  
 a) Fetching data from inaccessible point  
 b) Fetching data from accessible point  
 c) Communication over telephone  
 d) None of these
- Q.8 Medium of transmission in landline telemetry may be.....  
 a) Electrical line  
 b) Pneumatic line  
 c) Electrical and Pneumatic line  
 d) None of these
- Q.9 Which of the following is correct for electrical line telemetry?  
 a) Transmission of electrical voltage  
 b) Transmission of electrical current  
 c) Transmission of analog signal  
 d) All of these
- Q.10 In ASK, transmission bandwidth is equal to.....  
 a) Base band width  
 b) half the base band width  
 c) twice base band width  
 d) four times base band width

### **SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define the term amplitude modulation.  
 Q.12 What do you mean by ASK.  
 Q.13 Define PWM.  
 Q.14 PSK stands for.....  
 Q.15 What is transducer.  
 Q.16 What is the function of relay  
 Q.17 Write one advantage of PPM.  
 Q.18 Name different types of telemetry  
 Q.19 What do you mean by multiplexing.  
 Q.20 What is Hydraulic transmitter.

### **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss about the impulse telemetry system.