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PYSE-402

M. Sc. (Fourth Semester) Examination, 2020

(Under CBCS)

PHYSICS

Paper : III & IV (B)

(Electronics-II)

Maximum Marks : 60

Note: *Attempt all questions. Each question carries equal marks.*

1. Explain sampling theorem. What is bandwidth for a PAM signals? Explain. Discuss natural and flat top sampling.

2. (a) Explain design of ISDN and LAN communication network. What is poisson distribution? Explain.

(b) Discuss quantization noise in delta modulation. Explain DM output-signal quantization noise ratio.

3. Discuss the internal architecture of 8086. Find the address bus width for the microprocessors which can address the following memory locations :

(i) 1 k byte

(ii) 64 k bytes

(iii) 1 M byte

4. (a) Explain addressing memory and parts in micro computer systems.

(b) Describe digital and analog interfacing of 8086.

5. Explain any **two** of the following :

(i) PSK and FSK

(ii) ALOHA and slotted ALOHA

(iii) Writing and using assembler MACROS

(iv) Single and double hand shake

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