Code No. 3336

FACULTY OF SCIENCE
B.Sc. VI-Semester (CBCS) Examination, May / June 2019

Subject : Electronics

Paper – VII (DSC) : (Digital Communication)

Time : 3 Hours

Max. Marks: 60

PART – A (5 x 3 = 15 Marks)
(Short Answer Type)
Note : Answer any FIVE of the following questions.

1 Differentiate between random signals and noise.
2 State and explain sampling theorem.
3 Define Amplitude modulation. Discuss about modulation Index.
4 What is PPM? Explain briefly.
5 What is meant by parity? Discuss X-OR gate as parity checker.
6 Explain Manchester coding.
7 Explain briefly about paging system.
8 Explain the need of SIM card in cell phones.

PART – B (45 Marks)
(Essay Answer Type)
Note: Answer ALL from the questions.

9 (a) Define Fourier transform. Discuss in detail all the properties of Fourier transforms.

OR

(b) Distinguish between fourier transform and complex fourier transform.

10 (a) Describe any one method of A/D conversion. Define resolution and accuracy.

OR

(b) Discuss about ASK and FSK communication systems.

11 (a) What is cyclic redundant check (CRC)? Explain Hamming distance and Hamming codes.

OR

(b) Discuss about cyclic codes and Walsh codes.

12 (a) Discuss in detail about cellular telephone communication system. Discuss the need for Towers.

OR

(b) What is Global positioning system? What are its advantages and disadvantages? Discuss.

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