



B.E.,/B.Tech Degree Examination

CONTINUOUS ASSESSMENT TEST II

Subject : Analog & Digital Communication

Subject Code: EC8394

Branch: IT

Year/Sem:II/III

Duration:10.00am-11.30am

Date: 18.09.2020

Max.Marks:50

PART A

(05 x 02 = 10)

Answer all the questions

1. Why is FSK and PSK signals are preferred over ASK signals? .(An) (CO3)
2. What is Data Modem. (K)(CO2)
3. Sketch the digitally modulated waveforms for the binary data 110101 using ASK and FSK.(An) (CO3)
4. What do you meant by I,Q& C Channels? .(R)(CO3)
5. Draw the constellation diagram of QPSK and 16 QAM signal.(R)(CO3)

PART B

(2 x 13 = 26)

6. (a) With neat constellation diagram, explain the operation of QAM transmitter. List out its merits over PSK .[10+3](E) (CO3)

(OR)

- (b) Explain the working principle of ASK with block diagram. [13] (R) (CO3)
7. (a) Discuss in detail about the standards organization for Data Communication. [13](R)(CO2)

(OR)

- (b).Discuss about the serial and parallel interfaces with suitable example. [13] (R) (CO2)

PART C (1 x 14 = 14)

8. (i). Explain in detail about the operation of QPSK transmitter with necessary diagrams(K)(CO3)
(ii) Compare QPSK and BPSK. (An) (CO3)



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R2017	C205	EC8394 ANALOG AND DIGITAL COMMUNICATION	L	T	P	C
			3	0	0	3
C205.1	Apply analog communication techniques					
C205.2	Use data and pulse communication techniques					
C205.3	Apply Digital communication techniques					
C205.4	Analyze Source and Error control coding					
C205.5	Utilize multi-user radio communication					