

SF - 475

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Seat No.	
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**B.E. (S.E.) (Information Technology) (Semester - III) Examination,
November - 2017**

DATA COMMUNICATION (Theory)

Sub. Code : 63514

Day and Date : Wednesday, 15 - 11 - 2017

Total Marks : 50

Time : 09.30 a.m. to 11.30 a.m.

- Instructions :**
- 1) **Attempt any two questions from each Section.**
 - 2) **Assume suitable data wherever necessary.**
 - 3) **Figure to the right indicates full marks.**

SECTION - I

- Q1)** a) Explain concept of Protocols and Standards in detail. [6]
b) What are the causes of transmission impairments? [7]
- Q2)** a) Explain Baseband transmission of digital signals in detail. [6]
b) Given the following periods, calculate the corresponding frequencies. [6]
i) 5s
ii) 12 Micros
iii) 220 ns
- Q3)** Write a short note [12]
a) Hierarchical organization of internet
b) ASK v/S FSK
c) parallel vs. Serial transmission.

SECTION - II

- Q4)** a) Write a short note [6]
i) Sampling.
ii) radiowaves.
b) Draw and explain TCP/IP reference model [7]

P.T.O.

- Q5)** a) What is multiplexing? When it is useful in data communication? [6]
b) Compare twisted pair, co-axial cable and optical fiber on the basis of Speed, attenuation and application. [6]
- Q6)** a) Explain - Circuit switching and Packet switching [6]
b) What is TDM? Explain in detail synchronous TDM. [6]

