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**B. A./B. Com./B. Sc. (Part I)  
EXAMINATION, 2018**

(New Course)

(Vocational Course)

COMPUTER APPLICATION

Paper Second

(Data Communication)

Time : Three Hours ] [ Maximum Marks : { B. A. : 25  
B. Com./B. Sc. : 50

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

**Section—A**

(Short Answer Type Questions)

Note : Attempt A to C total three questions for B. A.

Attempt A to F all the six questions for B. Com./ B. Sc. Each question carries 3 marks.

1. (A) What are the advantages of distributed data processing ?

- (B) What is analog modulation ? State its various techniques.
- (C) How can you identify the IP class of a given IP address ?
- (D) Given the following information, find the minimum bandwidth required for the path :  
FDM Multiplexing  
Five devices, each requiring 4000 Hz 200 Hz guard band for each device.
- (E) Imagine the length of a 10 base-5 cable is 2500 metres. If the speed of propagation in a thick coaxial cable is 60% of the speed of light, how long does it take for a bit to travel from the beginning to the end of the cable ? Ignore any propagation delay in the equipment. (Speed of light =  $3 \times 10^8$  m/s.)
- (F) One-way of securing a network is through the use of password. What can be considered as good passwords ? <http://www.csjmuonline.com>

**Section—B**

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 4/8 marks.

2. Discuss the advantages and disadvantages of various topologies in a computer network.
3. What is the difference between simplex, half duplex and full duplex ? Give examples of each.
4. Explain all types of unguided media with diagram.

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5. Discuss advantages and disadvantages of circuit switching and message switching. Explain their working with diagram.

**Section—C**

**(Long Answer Type Questions)**

**Note :** Attempt any *two* questions. Each question carries 4/8 marks.

6. (i) What are the differences between OSI and TCP/IP model ?  
(ii) Explain Telnet and FTP.
7. Differentiate between Hub, Switch, Bridge and Router.
8. (i) Define ATM. What are the advantages of ATM network ?  
(ii) Explain types of services provided by ISDN.
9. Describe the functioning of cellular mobile systems with diagram.

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