

**186-N**

**B. A./B. Com./B. Sc. (Part I)  
EXAMINATION, 2017**

(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) List all the layers of OSI reference model.
- (B) Explain network structure of Ring and Star topology.

- (C) List the advantages of Computer Network.
- (D) What is packet switching ?
- (E) Write the full form of the following :
  - (i) OSI
  - (ii) TCP/IP
  - (iii) ISDN
- (F) Explain Simplex method with proper example.

**Section—B**

(Long Answer Type Questions)

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

2. Explain the different codes used for Data representation.
3. Explain microwave and satellite communication with example.
4. Differentiate between router and repeater.
5. Explain half duplex and full duplex with example.

**Section—C**

(Long Answer Type Questions)

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

6. Draw the diagram of OSI reference model. Describe network and session layer.
7. Differentiate between the following :
  - (i) Analog and Digital transmission
  - (ii) Coaxial cable and Fibre optic cable

8. What is ISDN ? Explain the different services of ISDN with example.
9. Write short notes on the following :
  - (i) Multiplexing
  - (ii) IEEE Standards
  - (iii) Protocols

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