

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2018
(Fourth Semester)

Branch- **COMPUTER TECHNOLOGY**

COMPUTER NETWORKS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is a computer network?
- 2 Expand and define OSI model.
- 3 Define physical layer.
- 4 What is called as switching?
- 5 Write about ALOHA protocols?
- 6 What is the purpose of data link layer?
- 7 What is a congestion?
- 8 Expand and define RPC.
- 9 What is the role of presentation layer?
- 10 Give any two issues of application layer design.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Write the importance of network structures.
OR
b Write short notes on network services.
- 12 a Write in short about transmission media.
OR
b Give a brief note on digital transmission.
- 13 a Write short notes on MAN in terms of medium access sublayer.
OR
b Enlist the issues in data link layer design.
- 14 a List out the issues on network layer.
OR
b How to perform connection management in transport layer? Give a short note.
- 15 a Write on abstract syntax notation in short.
OR
b Write about virtual terminals in brief.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Discuss about OSI reference model.
- 17 Write in detail about integrated services digital network (ISDN).
- 18 Elaborate on error detection and correction.
- 19 Write about routing algorithms in network layer.
- 20 Give the importance of cryptography with its functionalities.