

# AE-816

M.Sc. (Previous)  
Term End Examination, 2016-17

# COMPUTER SCIENCE

# Advanced Computer Network

*Time : Three Hours]                      [Maximum Marks : 100*  
*[Minimum Pass Marks : 36*

**Note** : Answer **all** questions. All questions carry equal marks.

1. Explain any **five** of the following :
  - (a) Bipolar Line Coding
  - (b) SNR
  - (c) BPSK
  - (d) WDM
  - (e) Pulse amplitude modulation
  - (f) Bit rate and baud rate
  - (g) ADPCM
2. Explain various wired and wireless transmission media in detail.

***OR***

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- (a) Explain various switching techniques with suitable diagram.
  - (b) Explain bridge and routers.
3. (a) Explain stop and wait protocol.
- (b) What is ALOHA ? Explain.

**OR**

- (a) What is static and dynamic channel allocation ? Explain.
  - (b) What is video on demand ? Explain.
4. (a) Compare TCP and UDP protocols.
- (b) Explain SNMP and TFTP protocols.

**OR**

- (a) Explain congestion control algorithm.
  - (b) Explain various classes of IP addresses.
5. Explain any **four** of the following :
- (a) MANET
  - (b) Mobile IP
  - (c) DTN
  - (d) Cellular Network
  - (e) SDMA
  - (f) CDMA