



MAI-1104-1105 Seat No. 943

B. C. A. (Sem. III) Examination

October / November - 2018

(A) BCA-304 : Computer Network

(B) 304 : Enterprise Resource Planning
(Elective - II)

Time : 3 Hours]

[Total Marks : 70

(A) BCA-304 : Computer Network

- 1 (a) Do as directed : 6
- (1) What is computer network?
 - (2) What is topology?
 - (3) What is digital signal?
 - (4) What is Demultiplexing?
 - (5) Explain crosstalk
 - (6) Explain WAN.
- (b) Give answers in detail : (any **three**) 12
- (1) Explain advantage and disadvantage of computer network.
 - (2) Explain TCP/IP Reference model in detail.
 - (3) Explain the Telephone structure.
 - (4) Explain packet and message switching.
- 2 (a) Do as directed : 5
- (1) What is Guided media?
 - (2) What is Band width?
 - (3) List out Magnetic media?
 - (4) Explain sky Propagation.
 - (5) Explain omni directional antennas.
- (b) Give answers in detail : (any **three**) 12
- (1) Explain difference between base band and broad band.
 - (2) Explain Fiber optics.
 - (3) Explain Radio Transmission and infrared.

- (4) Difference between fiber optic and copper wire.
- 3 (a) Do as directed : 6
- (1) Subnetting
 - (2) Router
 - (3) Half Duplex
 - (4) Bit Stuffing
 - (5) Write Binary notation of ip 127.51.25.02
 - (6) Find NetId, HostId and Subnetmask of IP address 192.168.1.25
- (b) Give answers in detail : (any **three**) 12
- (1) Explain Asynchronous Data link Protocols
 - (2) Explain all class of IP addresses in detail
 - (3) Explain HDLC Frames
 - (4) Explain BSC Frame
- 4 (a) Do as directed : 5
- (1) Mobile computing?
 - (2) Wireless communication.
 - (3) Give name of device that's used in wireless communication
 - (4) Full Form of : CDMA, GPRS
 - (5) Wi-Fi.
- (b) Give answers in detail : (any **three**) 12
- (1) Explain E.D.A.
 - (2) Explain Smart phone.
 - (3) Explain 3G.
 - (4) Explain Tablet computer.