



BBD-MCA1040

Seat No. _____

M. C. A. (Sem. I) (CBCS) Examination

June / July – 2021

MCA1040 : Computer Network

Time : $2\frac{1}{2}$ Hours]

[Total Marks : **70**

1 Answer the following questions :

(A) Attempt the following objective questions : **4**

- (1) How long is an IPv6 address?
- (2) Where is a hub specified in the OSI model?
- (3) ICMP protocol is used to send a destination network unknown message back to originating hosts?
True/False
- (4) The term HTTP stands for?

(B) Answer in brief : (Any **One**) **2**

- (1) What is network?
- (2) List out components of networks

(C) Answer in detail : (Any **One**) **3**

- (1) What do you mean by network topology?
- (2) Explain Client Server Model

(D) Write a note on following : (Any **One**) **5**

- (1) Explain Peer to Peer Networking in detail with diagram
- (2) Explain Analog and Digital Signals in detail

- 2** Answer the following questions :
- (A) Attempt the following objective questions : **4**
- (1) Firewall prevents the external access to a system?
True/False
 - (2) The term FTP stands for?
 - (3) Peer to Peer is a network topology? True/False
 - (4) The maximum length (in bytes) of an IPv4 datagram is?
- (B) Answer in brief : (Any **One**) **2**
- (1) What is LAN?
 - (2) What is WAN?
- (C) Answer in detail : (Any **One**) **3**
- (1) What is Multiplexing?
 - (2) What is FDM?
- (D) Write a note on following : (Any **One**) **5**
- (1) Explain OSI in detail with diagram
 - (2) Explain Communication process of OSI in detail
- 3** Answer the following questions :
- (A) Attempt the following objective questions : **4**
- (1) The term WAN stands for?
 - (2) How many versions available of IP?
 - (3) The term IANA stands for?
 - (4) FTP is used for frequency transmission ?
True/False
- (B) Answer in brief : (Any **One**) **2**
- (1) What is transmission media ?
 - (2) List out any three network connectivity devices

- (C) Answer in detail : (Any **One**) **3**
- (1) Explain coaxial cable
 - (2) Explain WDM
- (D) Write a note on following : (Any **One**) **5**
- (1) Explain Twisted pair cable in detail
 - (2) Explain Fiber optic cable in detail
- 4** Answer the following questions :
- (A) Attempt the following objective questions : **4**
- (1) The term IPv4 stands for?
 - (2) Routing is of five types? True/False
 - (3) How many characters consist of the entire hostname?
 - (4) The term TDM stands for?
- (B) Answer in brief : (Any **One**) **2**
- (1) List out network topologies
 - (2) What is routing?
- (C) Answer in brief : (Any **One**) **3**
- (1) Explain Link state routing in detail
 - (2) Explain Distance vector routing in detail
- (D) Write a note on following : (Any **One**) **5**
- (1) Explain any two topologies in detail with diagram
 - (2) Explain access and token passing method

5 Answer the following questions :

(A) Attempt the following objective questions : **4**

- (1) The term LAN stands for?
- (2) MAC address is also called .
- (3) Sub netting means dividing network? True/False?
- (4) What is SMTP?

(B) Answer in brief : (Any **One**) **2**

- (1) What is brouter?
- (2) List out routing algorithms

(C) Answer in detail : (Any **One**) **3**

- (1) What is packet switching
- (2) Explain classful addressing

(D) Write a note on following : (Any **One**) **5**

- (1) List out unguided media and explain any **One** in detail
- (2) Explain TCP/IP
