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**NAY-003-004404** Seat No. \_\_\_\_\_

**B. Sc. (I.T.) (Sem. IV) (CBCS) Examination**

**March / April - 2017**

**CS - 22 : Computer Network Technology**

**Faculty Code : 003**

**Subject Code : 004404**

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

[Total Marks : 70

1 Answer the following questions : 20

- (1) DNS stands for \_\_\_\_\_.
- (2) FTP uses two well-known TCP ports : \_\_\_\_\_ and \_\_\_\_\_.
- (3) The feature of playing back audio or video while the file is being received is called \_\_\_\_\_.
- (4) IGRP stands for \_\_\_\_\_.
- (5) Which one problem arises to determine path to destination in distance vector routing ?
- (6) RTP stands for \_\_\_\_\_.
- (7) Give two protocol name used in Mail Transmission and Receipt.
- (8) BOOTP uses the \_\_\_\_\_ as a Transport Layer Protocol.
- (9) Network firewall contains to routers and one \_\_\_\_\_.
- (10) SIP stands for \_\_\_\_\_.

- (11) A Bluetooth network consists of \_\_\_\_\_ primary device(s) and up to \_\_\_\_\_ secondary devices.
- (12) Full form of MAC \_\_\_\_\_.
- (13) In how many bytes IP address of IPV4 occupy ?
- (14) Refinement over BOOTP is \_\_\_\_\_.
- (15) PDA stands for \_\_\_\_\_.
- (16) IGRP is developed by \_\_\_\_\_.
- (17) Problem of DVR is overcome by \_\_\_\_\_ routing algorithm.
- (18) Write the type of Flooding algorithm.
- (19) The short form of protocol for a wireless networks is \_\_\_\_\_.
- (20) First Octet Range of Class A ?

**2** (a) Attempt the following : (any **three**)

**6**

- (1) What is packet switching ?
- (2) Explain services provided to the transport layer.
- (3) What is Unicast ?
- (4) What is Distance Vector Routing ?
- (5) What is Fragmentation ?
- (6) What is Mail Relay ?

- (b) Attempt the following : (any **three**) **9**
- (1) Explain Remote Login.
  - (2) Explain firewall.
  - (3) Differentiate IPV4 v/s IPV6.
  - (4) Explain jitter control.
  - (5) Discuss ICMP.
  - (6) Explain Flow Control as part of Transport Protocol Element.
- (c) Attempt the following : (any **two**) **10**
- (1) Explain IP Addressing
  - (2) What is Congestion ? Explain congestion prevention policies.
  - (3) Explain load Shedding.
  - (4) Explain Routing algorithm.
  - (5) Discuss TCP v/s UDP.
- 3** (a) Attempt the following : (any **three**) **6**
- (1) What is Browser Cache?
  - (2) What is LDAP ?
  - (3) What is 802.11a & 802.11b?
  - (4) What is POP3?
  - (5) What is Multiplexing ?
  - (6) What is Network Management ?

(b) Attempt the following : (any **three**) **9**

- (1) Discuss Domain Name System.
- (2) Explain HTTP.
- (3) What is RTSP ?
- (4) Explain Frame Relay.
- (5) Explain BOOTP.
- (6) Explain Streaming Store Audio and Video Application with example.

(c) Attempt the following : (any **two**) **10**

- (1) Explain Scheduling and Policing.
- (2) Discuss Bluetooth.
- (3) Explain Email with its Architecture and Services.
- (4) Explain DHCP in detail.
- (5) What is IntServ?