



**K16U 0122**

Reg. No. : .....

Name : .....

**VI Semester BCA Degree (CCSS – Reg./Supple./Improv.)**

**Examination, May 2016**

**Core Course**

**Section – B (Elective)**

**6B22 BCA (E08) : NETWORK PROGRAMMING**

Time : 3 Hours

Max. Weightage : 21

**SECTION – A**

Answer **all** questions. Weightage for a bunch of 4 questions is 1.

1. A descriptor returned by accept function and is used to communicate with the new client is
  - a) Connected descriptor
  - b) Socket
  - c) Wrapper
  - d) None
2. A connection less transport layer protocol
  - a) UDP
  - b) TCP
  - c) SCTP
  - d) None
3. The maximum amount of time that any IP datagram can live in a network is called
  - a) MSL
  - b) TIME -WAIT
  - c) FIN
  - d) ACK
4. A four tuple that defuses the two end point of the connection
  - a) Port
  - b) Socket-pair
  - c) Socket
  - d) None
5. The IPv6 socket address structure is called
  - a) Sock addr-ln6
  - b) Sock addr-ln
  - c) Both
  - d) None
6. The function that assigns a local protocol address to a socket is
  - a) Socket
  - b) Bind
  - c) Listen
  - d) Accept

P.T.O.



7. SO-DEBUG socket option is supposed by

- a) UDP                      b) TCP                      c) Both                      d) None

8. The function that looks up a hostname is

- a) Gethost by name                      b) Gethost by addr  
c) Both                      d) None

(2×1=2)

### SECTION – B

Answer **5** questions. Weightage **1 each**.

9. Give the features of TCP.
10. Give the reasons for the TIME-WAIT state.
11. What is path MTU ?
12. Give the use of the connect function.
13. What is a socket ?
14. Define resource records.
15. Give the alternatives of DNS.
16. What is the use of the function getserv by name ?

(5×1=5)

### SECTION – C

Answer **any 5** questions. Weightage **2 each**.

17. Discuss about error handling.
18. Explain about byte ordering functions.
19. Discuss shutdown of server host.
20. Explain    i) Str\_echo                      ii) Str\_eli functions.
21. Discuss about socket states.



22. What are the uses of getsockopt and setsockopt functions ?

23. Explain about tcp-connect and tcp-listen functions.

(5×2=10)

#### SECTION – D

Answer **one** question. Weightage 4.

24. Discuss about Generic Socket Options.

25. Explain TCP connection establishment and termination.

(1×4=4)

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