

**BCA (H) Semester-VI Examination, 2022-23****Bachelor of Computer Application [Honours]****Course ID : 63311****Course Code : BCA/CC-13****Course Title : Internet Systems**

Time : 2 Hours

Full Marks : 50

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***GROUP–A**1. Answer **all** the questions from the following:

1×10=10

i) TCP/IP is a

- a) Network Hardware
- b) Network software
- c) Protocol
- d) All of the above
- e) None of these

ii) IPX/SPX used for

- a) Linux
- b) Unix
- c) Novel Netware
- d) Windows
- e) None of these

iii) \_\_\_\_\_ is an access channel for computers to exchange information.

- a) Socket
- b) Port
- c) Gateway
- d) Protocol
- e) None of these

iv) Parallel port can transfer \_\_\_\_\_ bits of data at a time.

- a) 2
- b) 4
- c) 8
- d) 16
- e) None of these

- v) USB stands for
- a) United serial Bus
  - b) Universal Serial By-Pass
  - c) Universal System bus
  - d) Universal Serial Bus
  - e) None of these
- vi) Default port for HTTP.
- a) 23
  - b) 80
  - c) 21
  - d) 25
  - e) None of these
- vii) In which layer of OSI model IP is available
- a) Layer-1
  - b) Layer -2
  - c) Layer-3
  - d) Layer-4
  - e) None of these
- viii) IP is defined in
- a) RFC 790
  - b) RFC 791
  - c) RFC 792
  - d) RFC 793
  - e) None of these
- ix) Which is the error message reported by ICMP
- a) Time exceeded
  - b) Host unreachable
  - c) Echo request
  - d) All of above
  - e) None of these
- x) Which is not application level protocol
- a) FTP
  - b) MIME
  - c) PGP
  - d) HTTP
  - e) None of these

### GROUP-B

2. Answer any **five** from the following:  $2 \times 5 = 10$
- a) What is difference between node and host?
  - b) What is the purpose of routers?
  - c) What do you mean by well known ports?
  - d) Define protocol tunneling.
  - e) Define CGI.
  - f) What do you mean by server side?
  - g) Define response object and list its methods.
  - h) What is meant by plugin?

### GROUP-C

3. Answer any **four** from the following:  $5 \times 4 = 20$
- a) What are the types of ICMP error message? —Explain.
  - b) What are the services of TCP? Explain.
  - c) List and explain the types of FTTP commands.
  - d) Describe the DHCP client server operation in different network.
  - e) Describe the life cycle of virus.
  - f) What is firewall? What is the limitation of firewall?  $2 + 3 = 5$

### GROUP-D

4. Answer any **one** from the following:  $10 \times 1 = 10$
- i) a) What is domain? What are the types of domain in DNS? Explain.  $1 + 4 = 5$
  - b) What are services of UDP?  $5$
  - ii) Write short note (any **two**) from the following:  $5 \times 2 = 10$
- a) MIME
  - b) Web service
  - c) WWW