

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : JUNE -2022

SEMESTER - I

Sub: Computer Fundamentals Networking

(BCA- 140-18/140-20/BCA-CS-140-20)

Date : 18/06/2022

Total Marks : 60

Time: 10.00 am to 12.30 pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagrams wherever necessary.

Q.1. Fill in the blanks.

(5)

1. In client server model _____ provide network services.
 - a) client
 - b) Admin
 - c) Server
 - d) Organization
2. RAM and ROM are _____ type of memory
 - a) Dynamic
 - b) Primary
 - c) Static
 - d) Secondary
3. _____ is a mail protocol
 - a) FTP
 - b) HTTP
 - c) SMTP
 - d) SSH
4. Repeaters works at _____ layer of OSI layer
 - a) Network
 - b) Physical
 - c) Data Link Layer
 - d) Transport
5. Decimal Equivalent of $(100001)_2$ is _____
 - a) $(30)_8$
 - b) $(45)_{10}$
 - c) $(33)_{10}$
 - d) $(33)_{16}$

Q.2. State True/False.

(5)

1. Class A address ranges from 1-156
2. Hub is a multiport repeater.
3. In star topology all devices uses point to point communication
4. An Administrator is not required for client server network
5. Gateway connect two or more networks

Q.3. Answer the following. (Solve any 5) (10)

1. What is Wi-Fi network?
2. What is difference between impact and non-impact printer?
3. Define Flowchart.
4. Convert following numbers into decimal numbers $(2A3B)_{16}$
5. What is Internet?
6. What is the function of output unit?

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Explain in detail OSI Reference Model.
2. Explain NAND and NOR gates using truth table.
3. Compare IPv4 and IPv6
4. Explain in detail any two secondary devices.
5. Explain any three network topology.
6. Explain any three pointing devices.
7. Explain type of computer network.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Write an algorithm and draw flowchart to find area of circle.
2. What is an IP address? Explain the classes of it.
