# University of Mumbai
# Examination 2020 under cluster 9 (FAMT)
Program: BE Computer Engineering
Curriculum Scheme: Revised 2016
Examination: Third Year Semester V
Course Code: CSC503 and Course Name: Computer Network

Time: 1 hour                                                Max. Marks: 50

**Note to the students:-** All the Questions are compulsory and carry equal marks .

| Q1. | Which is the first Computer network in the world? |
|---|---|
| Option A: | PARANET |
| Option B: | ARPANET |
| Option C: | DOTNET |
| Option D: | COMNET |

| Q2. | TCP and UDP belong to which layer? |
|---|---|
| Option A: | Transport |
| Option B: | Netwohrk |
| Option C: | Application |
| Option D: | Physical |

| Q3. | The innermost core of an optical fiber is made up of ___. |
|---|---|
| Option A: | glass |
| Option B: | copper |
| Option C: | metal |
| Option D: | liquid |

| Q4. | The data link layer takes packets from the network layer and encapsulates them into _____ for transmission. |
|---|---|
| Option A: | bits |
| Option B: | frames |
| Option C: | sockets |
| Option D: | packets |

| Q5. | Cyclic Redundancy Checks (CRCs) is an _____ code . |
|---|---|
| Option A: | error detecting |
| Option B: | error correcting |
| Option C: | routing |
| Option D: | feedback |

| Q6. | A set of rules that govern all aspects of information communication is called _____. |
|---|---|

| Option A: | server |
|---|---|
| Option B: | internet |
| Option C: | protocol |
| Option D: | OSI model |

| Q7. | A 4 byte IP address consists of _____. |
|---|---|
| Option A: | only network address |
| Option B: | only host address |
| Option C: | network address & host address |
| Option D: | network address & MAC address |

| Q8. | Which mechanism/s is/are extremely essential in data link and transport layers in accordance to operational services offered by the transport protocols? |
|---|---|
| Option A: | Buffering |
| Option B: | Flow Control |
| Option C: | Buffering and Flow Control |
| Option D: | Error Control |

| Q9. | Which of the following is not an application layer protocol? |
|---|---|
| Option A: | HTTP |
| Option B: | SMTP |
| Option C: | FTP |
| Option D: | TCP |

| Q10. | Which of the following is not an application layer service? |
|---|---|
| Option A: | Network virtual terminal |
| Option B: | File transfer, access, and management |
| Option C: | Mail service |
| Option D: | Addressing |

| Q11. | In OSI model, when data is sent from device A to device B, the 5th layer to receive data at B is _____. |
|---|---|
| Option A: | Application layer |
| Option B: | Transport layer |
| Option C: | Link layer |
| Option D: | Session layer |

| Q12. | BNC connector is used to connect _____ cables. |
|---|---|
| Option A: | twisted pair |
| Option B: | fiber optic |
| Option C: | coaxial |

| Option D: | electrical |
|---|---|

| Q13. | A code with a Hamming distance of 2 can detect _____ errors. |
|---|---|
| Option A: | 2-bit |
| Option B: | 3-bit |
| Option C: | 5-bit |
| Option D: | single-bit |

| Q14. | Which of the pure ALOHA and slotted ALOHA gives more throughput than the other ? |
|---|---|
| Option A: | Throughput of both of them is same. |
| Option B: | Pure ALOHA |
| Option C: | Slotted ALOHA |
| Option D: | It is time dependent |

| Q15. | In _____ delivery, the deliverer of the IP packet and the destination are on different networks. |
|---|---|
| Option A: | a connection-oriented |
| Option B: | a direct |
| Option C: | an indirect |
| Option D: | a semi-direct |

| Q16. | Transmission control protocol _____. |
|---|---|
| Option A: | is a connection-less protocol |
| Option B: | uses a three way handshake to establish a connection |
| Option C: | receives data from physical layer as a single stream |
| Option D: | unreliable |

| Q17. | DNS database contains _____. |
|---|---|
| Option A: | name server records |
| Option B: | hardware address |
| Option C: | processid |
| Option D: | sevrer address |

| Q18. | We can compare the task of network management to the task of writing a program. Both tasks need rules. In network management this is handled by _____. |
|---|---|
| Option A: | SMTP |
| Option B: | MIB |
| Option C: | SMI |
| Option D: | BER |

| Q19. | ____ are the components used for interconnecting dissimilar networks that use different communication protocols. |
|---|---|
| Option A: | Switches |
| Option B: | Gateways |
| Option C: | Routers |
| Option D: | Bridges |

| Q20. | _____ are used in cellular phone and satellite communication. |
|---|---|
| Option A: | Radio waves |
| Option B: | Infrared waves |
| Option C: | Nano waves |
| Option D: | Microwaves |

| Q21. | In the bit stuffing framing method, a data stream 1 0 1 1 1 1 1 0 is transmitted as ____ . |
|---|---|
| Option A: | 1 0 0 1 1 1 1 0 |
| Option B: | 1 0 1 1 0 1 1 1 0 |
| Option C: | 1 0 1 1 1 1 1 0 |
| Option D: | 1 0 1 1 1 1 1 0 0 |

| Q22. | Which of the following is correct in CIDR(Classless Inter-Domain Routing)? |
|---|---|
| Option A: | Class A includes Class B network |
| Option B: | There is no concept of class A, B, C networks |
| Option C: | There are high & low class network |
| Option D: | There are only two networks |

| Q23. | In _____ forwarding, the mask and destination addresses are both 0.0.0.0 in the routing table. |
|---|---|
| Option A: | next-hop |
| Option B: | network-specific |
| Option C: | host-specific |
| Option D: | default |

| Q24. | In transport layer header, a_____ address identifies process running on computer. |
|---|---|
| Option A: | logical |
| Option B: | physical |
| Option C: | network |
| Option D: | service point |

| Q25. | Which Application layer protocol is used by electronic mail ? |
|---|---|
| Option A: | SMTP |

| Option B: | HTTP |
|-----------|------|
| Option C: | FTP |
| Option D: | SIP |