EXAM PREPARATION QUESTIONS

1. Information and Communication. What is information?
2. Communication -the transfer of information. Synchronous (Asynchronous) Communication.
3. Computers and Systems. Describe the interface. Describe a system.
4. Computers and Systems. Describe system architecture.
5. Programming language. Describe machine language.
6. Describe the purpose of programming languages.
7. Software & Operating Systems. Compilers and Interpreters
8. Software & Operating Systems. What is software?
9. Software & Operating Systems. Describe an embedded operating system.
10. Software & Operating Systems. Describe a real-time operating system
11. What is a computer program?
12. Software & Operating Systems. What is a software?
13. Software & Operating Systems. What is an Operating System?
14. How does an interpreter help programmers?
15. What does the acronym of HCI (human-computer interaction) mean?
16. Describe goal of HCI.
17. Describe why computers should be easy to use.
18. Human Computer Interaction. Example of a virtual interface on a computer.
19. Human Computer Interaction. Example of a physical interface on a smartphone.
20. Database Systems. Describe the Entity-Relationship Model.
21. Database Systems. Entity-Relationship Model. Describe an "Entity" and give an example.
22. Database Systems. Entity-Relationship Model. Describe "Attributes" and give an example.
23. Database Systems. Describe a one-to-one (one-to-many, many-to-one, many-to-many) relationship.
24. Networks and Telecommunications. Describe a network.
25. Networks and Telecommunications. What is the scale of a PAN, LAN, MAN, WAN. Describe and give an example.
26. Networks and Telecommunications. Computer network.
27. Networks and Telecommunications. Give examples of applications on a network.
28. Networks and Telecommunications. Describe the "transport" layer of the network model.
29. Networks and Telecommunications. Describe what a router does on a network.
30. Networks and Telecommunications. Describe what the physical components on a network do.
31. Categories of Computer Crimes. Computer as a Target.
32. Categories of Computer Crimes. Describe is cyberspace.
33. Categories of Computer Crimes. Why do cybercriminals target anyone?

34. Categories of Computer Crimes. Give an example of cybercrime.
35. Categories of Computer Crimes. Describe Cybersecurity.
36. Categories of Computer Crimes. How a cybercriminal uses computer to target an individual?
37. Categories of Computer Crimes. How a cybercriminal targets computer or system to commit a crime?
38. Categories of Computer Crimes. How a cybercriminal uses a computer to sell illicit goods?
39. Categories of Computer Crimes. Malware
40. Categories of Computer Crimes. How malware can infect a computer?
41. Internet Technologies. Domain names. IP address. URL and list the different parts.
42. Internet Technologies. How a registrar connects websites to the Internet.
43. Internet Technologies. Hypertext. Web browsers. DNS (domain name service). What is HTML?
44. Cloud And Mobile Technologies. Infrastructure of a Service. Platform of a Service. Software of a Service.
45. Cloud And Mobile Technologies. Internet infrastructure.
46. Cloud And Mobile Technologies. Platforms on the internet.
47. Cloud And Mobile Technologies. Software running on the internet.
48. Describe: media, multi-media, digital text or font, digital audio, image file format, video container, CODEC
49. PNG (TXT, WAV) is what type of media?