

ICT
Class 8

Chapter 1

1. 'By using information technology a worker becomes more skilled'— explain it.
2. Explain the expansion of mobile phone sector and how does it help creating new types of job in Bangladesh.
3. Write down the changing trends of work place after applying ICT environment.
4. What is outsourcing? 'The job facilities are expanding at rapid speed through outsourcing.' — explain it.
5. Explain the role of information and communication technology in communication.
6. Describe some government services on the doorsteps for the Bangladeshi citizens.
7. Write down the application of ICT in marketing of business sector.
8. Write down the application of ICT in faster mode of communication of business sector.
9. What is EPOS? Explain the role of information and communication technology in the field of research.
10. What is telemedicine? Explain the importance of ICT in the field of healthcare.

Chapter 2

11. What is computer network? Describe some devices related to a network.
12. How many ways computer network can be classified based on the position of the connected computer? Describe.
13. What is network topology? Describe different types of network topology.
14. What are the uses of computer network?
15. What is cloud computing? 'The use of cloud computing is gradually increasing.'— explain.
16. Describe hub, switch, modem, LAN card.
17. How does a router work? Describe.
18. What is geo-stationary satellite? State the process of transferring data through optical fiber.

Chapter 3

19. What is used to ensure security while passing through the network?
Define – Captcha, data center, firewall.
20. What is Malware? How does Malware work?
21. What is computer virus? Describe different types of computer viruses.
22. What are the ways to get rid of Malware?
23. What is cyber crime? Describe the nature of cyber crimes.

24. What is online identity? How can an online identity of a man be formed?
25. How can you protect the secrecy of password?
26. What is computer hacking? What does a hacker do?
27. What is the difference between a cracker and a hacker?
28. 'ICT can play a vital role in eradicating corruption'– explain.
29. Write five advantages of using password.

Chapter 4

30. What is Spreadsheet Programme? Explain the relationship between the Information Technology and Spreadsheet.
31. Describe MS Excel 2007 window.
32. Explain the objectives of using spreadsheet software.
33. Describe the technique of using spreadsheet software.
34. How can you do sum and subtraction by using Excel programme?

Chapter 5

35. Explain the role of internet in education life.
36. Evaluate the importance of internet in daily life.
37. Explain the role of Internet in solving every day problem.
38. What is email? Write the steps of sending an email.
39. Describe the process of opening an email account.
40. How can you 'Sign out' from e-mail account?
41. What is the process of attaching files?

- a) Switch
- b) Router

- c) Hub
- d) Repeater

12. In which is cloud computing used?

- a) Pipilika
- b) WAN network

- c) LAN network
- d) PAN network

13. Which of the following is a social network?

- a) Google
- b) Yahoo

- c) Twitter
- d) Wikipedia

14. Which one is Bangla search engine?

- a) Pipilika
- b) Pipra

- c) The ant
- d) Shipra

15. It is being used in cloud computing _____

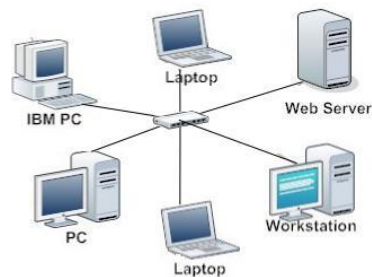
- i. yahoo
- ii. hotmail
- iii. gmail.

Which one of the following is correct?

- a) i and ii
- b) i and iii

- c) ii and iii
- d) i, ii and iii

16. Which topology is the following figure?



- a) Star
- b) Mesh

- c) Ring
- d) Tree

17. In which topology does the entire network become inactive if central hub is damaged?

- a) Star
- b) Mesh

- c) Ring
- d) Tree

18. If anyone uses paint software by computer that is kept in a server then what will it be called?

- a) Resource
- b) Media

- c) Software
- d) Painting

19. What is the client called that uses resource from the server?
- a) User
 - b) Administrator
 - c) Media
 - d) Protocol
20. What are the rules and regulations for sharing data in a computer network called?
- a) Protocol
 - b) User
 - c) NIC
 - d) Media
21. Which of the following is true?
- a) Computers cannot be connected to network without any cable or media.
 - b) Computers can be connected to network without any cable or media.
 - c) A server cannot provide services.
 - d) A client cannot receive services.
22. What is the elaboration of NIC?
- a) Network Internet Card
 - b) Network Integrated Card
 - c) Network Interface Card
 - d) Network Integration Card
23. Which one is familiar as Network Adapter?
- a) Media
 - b) Server
 - c) Protocol
 - d) NIC
24. The service of sending email is called—
- a) email server
 - b) eServer
 - c) Protocol
 - d) Media
25. Which of the following is a media?
- a) Electric cable
 - b) Optical fibre
 - c) Both a & b
 - d) None of the above

Section B-Short questions

Marks – 15

Answer any three of the following questions

5 ×3=15

1. What is computer network? Describe NIC and resource.
2. What is network topology? Describe star and ring topology.
3. What is geo-stationary satellite? Write the problems in sending information through satellite.
4. Write a short note on optical fiber.
5. Describe switch and router

ICT
Class Eight
Second Chapter

Lesson 8

1. What is the communication with one computer to another computer called?
 - a) Topology
 - b) Network
 - c) Internet
 - d) Resource
2. At least how many computers are required for creating a computer network?
 - a) 3
 - b) 4
 - c) 6
 - d) 2
3. How many computers can be in a real computer network?
 - a) 2
 - b) 3
 - c) 4
 - d) Many
4. What is the computer that provides services to a network called?
 - a) Media
 - b) Server
 - c) Protocol
 - d) NIC
5. Which is the function of a server?
 - a) Providing services
 - b) Receiving services
 - c) Receiving and providing services
 - d) To create network
6. What is called the device that receives service from others?
 - a) Media
 - b) Server
 - c) Client
 - d) Resource
7. Which one of the following can receive information from server?
 - a) Client
 - b) Protocol
 - c) Resource
 - d) Media
8. The service of sending email is called—
 - a) email server
 - b) eServer
 - c) Protocol
 - d) Media
9. Which one of the following can connected computers?
 - a) Media
 - b) Server
 - c) Client
 - d) Protocol
10. Which of the following is a media?
 - a) Electric cable
 - b) Optical fibre
 - c) Both a & b
 - d) None of the above
11. Which statement of the following is true?
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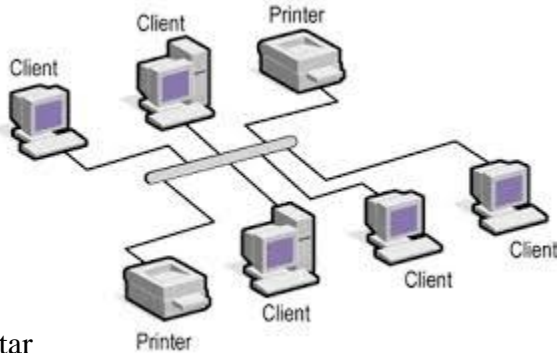
12. What is the elaboration of NIC?
- a) Network Internet Card
 - b) Network Integrated Card
 - c) Network Interface Card
 - d) Network Integration Card
13. Which one is familiar as Network Adapter?
- a) Media
 - b) Server
 - c) Protocol
 - d) NIC
14. Which one can receive, provide and transfer information to the network?
- a) Electrical wire
 - b) Co-axial cable
 - c) Protocol
 - d) NIC or network adapter
15. What are all the facilities that are provided to the client called?
- a) Media
 - b) Server
 - c) Network Adaptor
 - d) Resource
16. Which of the following is resource?
- a) A printer connected to a computer kept in a server
 - b) A fax machine connected to a computer kept in a server
 - c) A piece of software kept in a server
 - d) All of the above
17. If anyone uses paint software by computer that is kept in a server then what will it be called?
- a) Resource
 - b) Media
 - c) Software
 - d) Painting
18. What is the client called that uses resource from the server?
- a) User
 - b) Administrator
 - c) Media
 - d) Protocol
19. What are the rules and regulations for sharing data in a computer network called?
- a) Protocol
 - b) User
 - c) NIC
 - d) Media

Lesson 9

20. What is called the technique of connecting computer in different systems?

- a) Protocol
- b) LAN
- c) Topology
- d) FTP

21. Which topology is the following figure?



- a) Star
- b) Bus
- c) Ring
- d) Tree

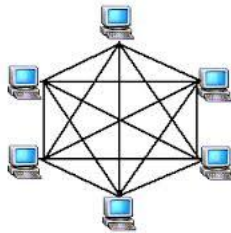
22. Which topology looks like a rounded circle?

- a) Star
- b) Bus
- c) Ring
- d) Tree

23. Which topology becomes inactive if central hub is damaged?

- a) Star
- b) Bus
- c) Ring
- d) Tree

24. Which topology is the following figure?



- a) Mesh
- b) Bus
- c) Ring
- d) Tree

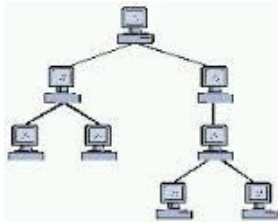
25. Which topology can be connected to two more computers?

- a) Star
- b) Mesh
- c) Ring
- d) Tree

26. In which topology every computer is connected to each other?

- a) Star
- b) Mesh
- c) Ring
- d) Tree

27. Identify the following topology.



- a) Star
- b) Mesh
- c) Ring
- d) Tree

Read the passage below and answer to the question no. 28 & 29

Shadman bought a hub from the computer market and easily set up a computer network in his home.

28. Which topology will be Shadman's network?

- a) Ring
- b) Mesh
- c) Star
- d) Tree

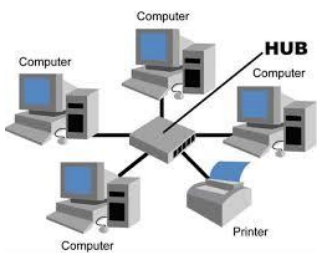
29. The property of Shadman's network-----

- i. If a computer gets damaged, rest of the computers remain active.
- ii. If the central hub is damaged, the total network will be inactive.
- iii. It is comparatively easier topology.

Which one of the following is correct?

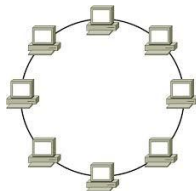
- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

30. Which topology is the following figure?



- a) Star
- b) Mesh
- c) Ring
- d) Tree

31. Which topology is the following figure?



- a) Star
- b) Mesh
- c) Ring
- d) Tree

32. Which topology can be compared with tree?
 a) Star
 b) Mesh
 c) Ring
 d) Tree
33. Which topology is comparatively easier?
 a) Ring
 b) Mesh
 c) Star
 d) Tree

Lesson 10& 11

34. How fast can information be sent to receivers at present?
 a) by letter
 b) by poster
 c) by network
 d) by acquaintance
35. At present how is information preserved?
 a) in book
 b) in poster
 c) in database
 d) in paper
36. How was information like once?
 a) Asset
 b) Like money
 c) Circular
 d) Open to all
37. Where does anyone can store his/her personal information?
 a) in dropbox
 b) in CD
 c) in pen drive
 d) None of the above
38. Which one is Bangla search engine?
 a) Pipilika
 b) Pipra
 c) The ant
 d) Shipra
39. It is being used in cloud computing_____
 i.yahoo
 ii.hotmail
 iii.gmail.
 Which one of the following is correct?
 a) i and ii
 b) ii and iii
 c) i,and iii
 d) i, ii and iii
40. Which is the process of enjoying global advantages by connecting a network?
 a) Cloud Computing
 b) LAN
 c) MAN
 d) PAN
41. What is the asset of the new world?
 a) Data
 b) Information
 c) Computer
 d) Internet
42. In which is cloud computing used?
 a) Pipilika
 b) WAN network

- c) LAN network
d) PAN network
43. Which of the following is a social network?
a) Google
b) Yahoo
c) Twitter
d) Wikipedia
44. Which of the following is the characteristic of cloud computing?
a) Pay as you use
b) No need of own hardware
c) Both a & b
d) None of the above
45. Social network is used in –
i. Sending photos, videos, information
ii. Exchanging photos, videos, information
iii. Sending emails
Which one of the following is correct?
a) i and ii
b) ii and iii
c) i, and iii
d) i, ii and iii

Lesson 12& 13

46. Which is used to connect ICT devices with a computer in a wire connected network?
a) Radio link
b) Satellite
c) Hub
d) Dropbox
47. Which one is correct for the computers connected by hub?
a) All the computers can communicate with another computers
b) Only one computer can communicate with another computers
c) All the computers cannot communicate with another computers
d) No computer can connect with another computers
48. Which device sends information to all the computers connected along with it?
a) Hub
b) Switch
c) Repeater
d) Router
49. Which of the following can't send information as per specific address?
a) Switch
b) Router
c) Hub
d) Repeater
50. Which is used by many institutions for a small network?
a) Switch
b) Router
c) Hub
d) Repeater
51. The cost of which is comparatively of lower cost?
a) Switch
b) Router
c) Hub
d) Repeater
52. In most of the cases which is used to install a network at present?
a) Switch
b) Router
c) Hub
d) Repeater
53. Which of the following can send information as per specific address?
a) Switch
b) Router
c) Hub
d) Repeater
54. Which device can identify every node of a network separately?
a) Switch
b) Router

- c) Hub d) Repeater
55. Which one is correct for the computers connected by switch?
- a) It transfers data from one address to another address
 - b) It cannot send information from one address to another
 - c) It can show the route of data
 - d) None of the above
56. As per information technology address allocated by switch is termed as—
- a) MAC address
 - b) IP address
 - c) Local address
 - d) Global address
57. For why does switch work faster than hub?
- a) Using different address
 - b) For not using address
 - c) For instructing data
 - d) For not instructing data
58. Which device is most popular device for creating network?
- a) Switch
 - b) Router
 - c) Hub
 - d) Repeater
59. From which word does the word 'Router' come?
- a) Routing
 - b) Routed
 - c) Route
 - d) Router
60. Which of the following device is the combination of both hardware and software?
- a) Switch
 - b) Router
 - c) Hub
 - d) Repeater
61. Which connects two active networks under the same protocol?
- a) Switch
 - b) Router
 - c) Hub
 - d) Repeater
62. What is the main job of router?
- a) To show the route of data or information
 - b) Connecting MAC address
 - c) Sending data to all computers
 - d) None of the above
63. How can data packet reach in internet?
- a) In a certain path
 - b) In a different route
 - c) Only at a node
 - d) As per use
64. By the word hub, we understand—
- i. Network hub
 - ii. Internet hub
 - iii. USB hub
- Which one of the following is correct?
- a) i and ii
 - b) i and iii
 - c) ii, and iii
 - d) i, ii and iii
65. The word 'MODEM' comes from _____
- a) Modulator and Demodulator
 - b) Mobility and Demobility
 - c) Model and Demodel
 - d) Mode and Demode
66. Which is used to transform digital signal into analog signal?
- a) Switch
 - b) Router
 - c) Hub
 - d) Modem

67. What was called the 1st generation modems?
 a) Wi-Fi modem
 b) Dial-up modem
 c) DSL
 d) RSL
68. Which is the high-speed modem?
 a) Wi-Fi
 b) Dial-up
 c) DSL
 d) RSL
69. What is necessary for connecting two or more computers together?
 a) Switch
 b) Router
 c) LAN Card
 d) Modem
70. Modem stands between-
 a) The connecting point of computer and network
 b) Hub and switch
 c) Router and switch
 d) Server and Resource
71. Why are dial-up modems outdated?
 a) Because of slow speed
 b) Because of high speed
 c) Because of zero speed
 d) None of the above
72. Which does the work of interpreter?
 a) Switch
 b) Router
 c) LAN Card
 d) Modem

Lesson 14

73. Which rotates around the earth in the space?
 a) Radio link
 b) Satellite
 c) Infrared
 d) Blue tooth
74. How many hours are required for earth to rotate around its own axis?
 a) 12 hours
 b) 24 hours
 c) 48 hours
 d) 35 hours
75. What is the satellite that rotates around the earth within 24 hours called?
 a) Infrared satellite
 b) Geostationary satellite
 c) Fibre sattlite
 d) Optical satellite
76. How far is a satellite located from the earth?
 a) 36000 km
 b) 30000 km
 c) 24000 km
 d) 25000 km
77. In which year is geostationary satellite installed in the space for the first time?
 a) In 1960
 b) 1962
 c) 1964
 d) 1966
78. What are the numbers of communication problem of satellite?
 a) 2
 b) 3
 c) 4
 d) 5

79. Which is needed for sending signal in satellite?
- | | |
|--------------|-----------------|
| a) Antenna | c) Mobile phone |
| b) Telephone | d) Radio link |
80. Which signal is sent through optical fiber?
- | | |
|----------------------|--------------------|
| a) Magnetic signal | c) Light Signal |
| b) Electrical signal | d) Wireless signal |
81. What is the light signal that sent to optical fiber actually?
- | | |
|--------------------|-----------------------|
| a) Wireless signal | c) Terrestrial signal |
| b) Infrared | d) Radio signal |
82. How many telephone calls can be sent through optical fiber?
- | | |
|--------------|----------------------|
| a) 1 lac | c) 1 crore |
| b) Thousands | d) None of the above |
83. What is the cable that passes through bottom of the sea to connect one continent to another called?
- | | |
|---------------------|-----------------------|
| a) Satellite cable | c) Co-axial cable |
| b) Sun marine cable | d) Twisted pair cable |
84. How many times greater is the velocity of the signal that passes through optical fiber compared of velocity of light?
- | | |
|--------------|--------------|
| a) 2 times | c) 1/3 times |
| b) 1.5 times | d) 2/3 times |

Read the text below, and answer the questions nos. 85&86

Priyoti preserves her academic certificates, National ID card, etc. in dropbox. Once she was attending a seminar in London. She got a chance of higher education when the seminar was going on. She had to submit the certificates, and she did it very easily.

85. How did Priyoti get the certificates?
- | | |
|----------------------------|--------------------------|
| a) Through postal delivery | c) By using computer |
| b) Through fax | d) By using the internet |
86. The advantage of using dropbox is that—
- i. It can be opened anywhere
 - ii. Information are safe and secured here
 - iii. It can be carried on CD

Which one of the following is correct?

- | | |
|--------------|------------------|
| a) i and ii | c) ii, and iii |
| b) i and iii | d) i, ii and iii |

Network Devices



Hub



USB hub



MODEM



LAN card with cable



Wireless LAN card



Switch



Router

Abbreviation

Chapter 1& 2

ICT Information and Communication Technology

BUET Bangladesh University of Engineering and Technology

MIT Massachusetts Institute of Technology

ATM Automated Teller Machine

SMS Short Message Service

Email Electronic mail

GPS Global Positioning System

EPOS Electronic Point of Sale

E-book Electronic Book

FPGA Field-Programmable Gate Array

PLA Programmable Logic Array

NIC Network Interface Card

E-ticket Electronic Ticket

USB Universal Serial Bus

MAC Address Media Access Control Address

DSL Digital Subscriber Line

Wi-Fi Wireless Fidelity

LAN card Local area network card