

## Chapter 01

# The Importance of Information & Communication Technology

### Contents for Discussion

- The Importance of Information and Communication Technology in Creating and Getting Job
- Communication
- Importance of Information and Communication Technology in Business
- The Application of Information and Communication Technology in Government Activities
- Healthcare
- Research.

### Learning Outcomes : After studying this chapter, I will be able to—

- explain the job opportunities in the field of information and communication technology;
- explain the role of information and communication technology in communication;
- explain the advantages of information and communication technology in trade and business;
- explain the importance of information and communication technology in government activities;
- explain the contribution of information and communication technology to medical science;
- explain the role of information and communication technology in the field of research.



### Practice



Multiple Choice and General Q/A following  
100% accurate format for best prep.

Dear learners, the Q/A of this chapter have been divided into Exercises, MCQs, Short answer questions and Exercise-based tasks in light of the learning outcomes. Practice the questions well to ensure the best preparation in the exam.



### Textual Q/A



### Let's learn the textbook Q/A



### MCQs with Answers



1. Which invention has created facilities for doing official works from home? (Comprehensive)  
Ⓐ Computer Ⓑ The Internet  
Ⓑ Mobile phone Ⓒ Optical fibre
2. Which one of the following is not a website for outsourcing?  
Ⓐ www.upwork.com Ⓑ www.elance.com  
Ⓒ www.guru.com Ⓒ www.bikroy.com

3. What was the means of communication during the war of liberation in 1971? (Knowledge)  
Ⓐ Radio Ⓑ Television  
Ⓑ Computer Ⓒ Land Phone
4. For using information and communication technology—. (Application)
  - i. common people will get chance to know information;
  - ii. the quality of government service will be improved;
  - iii. participation of public in government activities will be ensured;

Which one is correct?

Ⓐ Ⓐ i Ⓑ i & ii Ⓒ ii & iii Ⓓ i, ii & iii

- Read the text below, and answer the questions nos. 5 & 6 :

Suppose 50 years from now, Raihan becomes sick after to Bandarban on a trip. He instantly contacts the physician in Dhaka who advises him to go to the hospital where he successfully did the heart surgery by a robot surgeon.

5. Raihan would not have been sick if —.  
(Higher Ability)

- he had treated the disease by using genome technology;
- he had not gone to Bandarban on a trip;
- he had earlier taken the medicine customized for his health;

Which one is correct?

- ⑥ ① i & ii ② i & iii ③ ii & iii ④ i, ii & iii  
6. Which technology played the vital role in Raihan's swift/prompt surgery? (Higher Ability)

- |            |                |
|------------|----------------|
| ① computer | ② Robot        |
| ③ ICT      | ④ The Internet |

### Short Q/A

**Question 7.** Suman, residing in Dhaka, wants to buy polao rice from Dinajpur for his sister's wedding. How can he use information and communication technology to buy polao rice for this purpose?

**Ans.** Suman, residing in Dhaka, wants to buy polao rice from Dinajpur for his sister's wedding. For this, he would have to go to Dinajpur. However, by using information technology he can buy polao rice from Dhaka without going to Dinajpur. For this, he can contact polao rice traders in Dinajpur through mobile. But the easiest and best way is to buy and sell through e-commerce. E-commerce is a process of doing business online. In this case, the Internet is used as a business medium. So, if Suman has an internet connection, he can take the help of this process. For this, he has to select the desired rice by checking the price of the product, the variety of rice, and the description on an e-commerce website. Then the web order form has to be filled up and sent to the seller online and the buyer has to pay the price through a credit card in the same way. The seller delivers the product to the buyer quickly through his own management. In this case, the price of the product can also be paid by cash on delivery method where the price is paid at the time of receiving the product, not before. Such an internet-based buying method is called online shopping. This overall internet-based business management is e-commerce. As a result, anyone can buy any product from any place safely.

**Question 8.** Explain how complex surgeries can be performed on sick patients from thousands of miles away.

**Ans.** Complex surgeries can be performed on sick patients from thousands of miles away using a technology called telemedicine. Below is an explanation of this :

The telemedicine system used to perform complex surgeries on sick patients from thousands of miles away is an internet-based system. In this system, a specialist doctor can perform surgery on a patient from thousands of miles away using the internet through video conferencing. In this case, the doctor and the patient are connected to each other through video conferencing. The doctor can see the patient's surgical procedure through video conferencing. In addition, he also observes the patient's various physical conditions. If any advice is needed, he provides it through video conferencing. Essentially, in this system, during a patient's surgery, a doctor located thousands of miles away participates in the complex surgery of a sick patient by observing the surgery through video conferencing using the internet, providing advice to the doctors involved in the surgery, and supervising the overall system. As a result, the doctors involved in the surgery can perform the surgery correctly. This is how complex surgeries can be performed on sick patients from thousands of miles away.

**Question 9.** Explain how people's productivity increases with increased connectivity to technology.

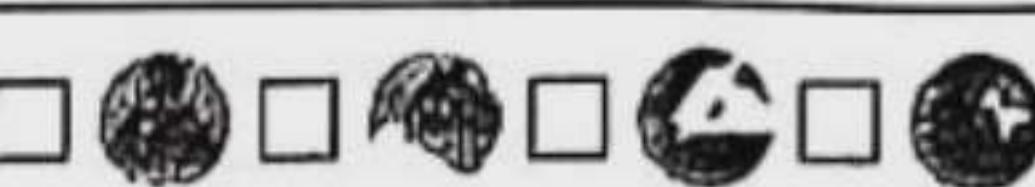
**Ans.** Due to the development of information and technology, various changes have occurred in different levels of society. People are learning to use information technology in all areas out of necessity. In the early stages of technology development, it was thought that automation and the application of technology would reduce the amount of work worldwide and increase unemployment. However, in this development trend, it has been seen that some traditional jobs have disappeared, and the patterns of many jobs have changed. But numerous new job opportunities have been created. A study has found that every thousand internet connections create 80 new job opportunities. Due to the use of information technology, a worker becomes much more efficient. Robots or automated machines are used for various tasks in various factories, as workers do many dangerous tasks with machines. These machines are controlled by humans. This saves time. Work is completed accurately and correctly. This increases productivity. The reason for this is the connectivity of information and communication technology. This increase in productivity through the application of information and communication technology has been defined by the Bengali educator and current MIT professor in America, Dr. Iqbal Quadir, as "Connectivity is productivity." That is, people's productivity increases with increased connectivity to technology.



## Multiple Choice Q/A



Designed as per topic



- The Importance of Information and Communication Technology** ▶ Textbook Page 2
1. Which medium is used to buy a ticket through online? (Knowledge) [JB '19]
    - (A) Internet
    - (B) Resource
    - (C) Server
    - (D) Credit Card
  2. What is the meaning of 'virtual'? (Knowledge) [CB '19]
    - (A) Religious
    - (B) Neutral
    - (C) imaginary
    - (D) Qualitative
  3. Computers that are received information from server computer is called— (Knowledge) [BB '19]
    - (A) client
    - (B) resource
    - (C) user
    - (D) media
  4. The Right to Information Act include authority's —. (Higher Ability) [BB '19]
    - i. structure and formation
    - ii. official memorandum
    - iii. secure documents

Which one is correct?

    - (A) i & ii
    - (B) i & iii
    - (C) ii & iii
    - (D) i, ii & iii
  5. How can we buy a train ticket from home? (Knowledge) [DJB '19]
    - (A) Over Telephone
    - (B) Through Internet
    - (C) By post office
    - (D) With Radio
  6. The more days are passing the more we are depending on —. (Higher Ability) [CB '18]
    - i. robot
    - ii. information technology
    - iii. network

Which one is correct?

    - (A) i & ii
    - (B) i & iii
    - (C) ii & iii
    - (D) i, ii & iii
  7. Using Mobile phone —. (Higher Ability) [DJB '18]
    - i. speaking is possible
    - ii. exam result can be known
    - iii. exchange of information is possible

Which one is correct?

    - (A) i & ii
    - (B) i & iii
    - (C) ii & iii
    - (D) i, ii & iii
  8. What is name of inhabitant of Internet? (Knowledge) [DJB '18]
    - (A) User
    - (B) Netizen
    - (C) Citizen
    - (D) Interzen
  9. Where does Humayun work? (Knowledge) [RB; JB; SB; DJB; CgB '17]
    - (A) Khulna
    - (B) Dhaka
    - (C) Rajshahi
    - (D) Chittagong
  10. Which device is used to send money from a foreign country? (Knowledge)
    - (A) Land phone
    - (B) Mobile phone
    - (C) Radio
    - (D) Camera
  11. — is changing the country and the world in many ways. (Knowledge)
    - (A) Information and communication technology
    - (B) Mobile phone
    - (C) Computer
    - (D) Politics

12. — medium is used for publishing national exam's reports. (Higher Ability)
  - i. Mobile
  - ii. Letter
  - iii. Online

Which one of the following is correct?

  - (A) i & ii
  - (B) ii & iii
  - (C) i & iii
  - (D) i, ii & iii

Read the following passage and answer the question numbers 13 & 14 :

Sumon has to go out of Dhaka city because of work. For this reason he has travelled by bus or train. This kind of travelling, ticket is booked by computer staying at home.

- 13. What kind of technology does Sumon use? (Application)
  - (A) Radio
  - (B) Television
  - (C) CD
  - (D) Internet
- 14. By using the technology Sumon can work —. (Higher Ability)
  - i. outsourcing
  - ii. can buy plane's ticket
  - iii. can do photoshop

Which one of the following is correct?

  - (A) i & iii
  - (B) ii & iii
  - (C) i & ii
  - (D) i, ii & iii

Read the following passage and answer the question numbers 15 & 16 :

Shirin studies at university in Dhaka city. She talks to her parents who live in village and also takes their information.

- 15. What is the name of medium which Shirin uses to communicate? (Comprehensive)
  - (A) One way communication method
  - (B) Two way communication method
  - (C) Broadcast method
  - (D) Above all
- 16. The device which Shirin uses its characteristics are —. (Higher Ability)
  - i. can be talked
  - ii. listening music
  - iii. can talk and see in the same time

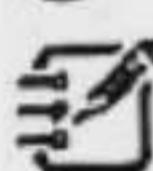
Which one of the following is correct?

  - (A) i & ii
  - (B) ii & iii
  - (C) i & iii
  - (D) i, ii & iii

**Information and Communication Technology in Creating and Getting Job** ▶ Textbook Page 4
- 17. Which of the following invention has created facilities for doing official works from home? (Comprehensive) [DB '19]
  - (A) Computer
  - (B) Internet
  - (C) Mobile phone
  - (D) Optical fibre
- 18. Which one of the following is not a website for outsourcing? (Comprehensive) [DB '19]
  - (A) www.upwork.com
  - (B) www.freelancer.com
  - (C) www.bikroy.com
  - (D) www.clance.com



- 19.** What is increased of an employee by using information and communication technology? *(Knowledge) [JB '19]*
- Ⓐ Patience Ⓑ Awareness  
Ⓒ Efficiency Ⓒ Salary
- 20.** What is done by www.elance.com website? *(Knowledge) [CtgB '19]*
- Ⓐ Official work Ⓑ The admission work of the university  
Ⓒ Self-employment work Ⓒ Banking work
- 21.** Considering the present ICT, which media is used to apply for a job or any other necessity? *(Knowledge) [DB '18]*
- Ⓐ Computer Ⓑ Satellite  
Ⓒ Internet Ⓒ Laptop
- 22.** "Connectivity is productivity" — Who says? *(Knowledge) [All B '16, RB '18, CB '18]*
- Ⓐ Dr Humayn Azad Ⓑ Dr Iqbal Kadir  
Ⓑ Dr Humayn Ahmed Ⓒ Dr Jafar Iqbal
- 23.** The name of creating opportunity of income staying at home is—. *(Knowledge) [RB '18]*
- Ⓐ Out-sourcing Ⓑ Income sourcing  
Ⓒ Internet service Ⓒ SMS service
- 24.** Which one of the following is 'outsourcing' website? *(Knowledge) [RB '18]*
- Ⓐ www.outsourcing.com Ⓑ www.elance.com  
Ⓒ www.google.com Ⓒ www.BCC.com
- 25.** Why is automatic interactive voice technology used? *(Knowledge) [JB '18]*
- Ⓐ Solving accounts problem Ⓑ Withdrawn cash any time  
Ⓒ Answer the question of client at any time Ⓒ Automatic monitoring
- 26.** As a result of which invention the possibility of doing office work sitting in the room has created? *(Knowledge) [CB '18]*
- Ⓐ Computer Ⓑ Internet  
Ⓑ Mobile phone Ⓒ Optical fibre
- 27.** Which of the following play role to create new job opportunities? *(Knowledge) [CtgB '18]*
- Ⓐ Internet Ⓑ Radio  
Ⓑ Mobile Ⓒ TV
- 28.** Which of the following play vital role to creating new job sectors? *(Knowledge) [BB '18]*
- Ⓐ Internet Ⓑ Radio  
Ⓑ Mobile Ⓒ TV
- 29.** The popular website of outsourcing or earning opportunities staying at home is—. *(Higher Ability) [BB '18]*
- i. www.upwork.com  
ii. www.freelancer.com  
iii. www.elance.com
- Which one is correct?
- Ⓐ Ⓐ & ii Ⓑ Ⓑ & iii Ⓒ ii & iii Ⓓ i, ii & iii
- 30.** What is name of the process 'Improvement Productivity' using ICT? *(Knowledge) [DjB '18]*
- Ⓐ Connectivity Ⓑ Productivity  
Ⓒ Connectivity is productivity Ⓒ Excellency is productivity
- 31.** Which one is the sector of using ATM Card? *(Knowledge) [DjB '18]*
- Ⓐ Treatment Ⓑ Editting  
Ⓑ Entertainment Ⓒ Banking
- 32.** Which is correct to draw cash from the ATM machine of bank? *(Knowledge) [RB; JB; SB; DjB; CtgB '17]*
- Ⓐ Morning Ⓑ Evening  
Ⓑ Night Ⓒ Any time
- 33.** The outsourcing websites are— *(Higher Ability) [RB; JB; SB; DjB; CtgB '17]*
- i. www.elance.com  
ii. www.upwork.com  
iii. www.gov.bd
- Which one is correct?
- Ⓐ Ⓐ & ii Ⓑ Ⓑ & iii Ⓒ ii & iii Ⓓ i, ii & iii
- 34.** Which websites have created the opportunity of income staying at home? *(Higher Ability) [All Board '16]*
- i. Odesk  
ii. Freelancer  
iii. e-lance
- Which one is correct?
- Ⓐ Ⓐ & ii Ⓑ Ⓑ & iii Ⓒ ii & iii Ⓓ i, ii & iii
- 35.** Which one is very essential for outsourcing? *(Knowledge) [All Board '14]*
- Ⓐ Router Ⓑ Switch  
Ⓒ Internet Ⓒ Pendrive
- 36.** At present which one is the biggest technology related company of the country? *(Knowledge) [All Board '14]*
- Ⓐ Television Company Ⓑ Camera Company  
Ⓒ Mobile Company Ⓒ Computer Company
- 37.** Where is the automatic interactive voice technology used? *(Comprehensive) [All Board '14]*
- Ⓐ In arrangement of materials Ⓑ To answer client's particular question  
Ⓒ In Accounting Ⓒ In video editing
- 38.** Which one is necessary for applying for a job sitting at home? *(Knowledge)*
- Ⓐ Internet connection Ⓑ Laptop  
Ⓒ Both a and b Ⓒ None of them
- 39.** ICT changes—. *(Higher Ability)*
- i. type of work  
ii. stuff's skill  
iii. environment of work
- Which one of the following is correct?
- Ⓐ Ⓐ & ii Ⓑ Ⓑ & iii Ⓒ ii & iii Ⓓ i, ii & iii

40. — skill needs for outsourcing work. (Higher Ability)
- Good at language
  - Good at about mobile phone
  - Good at work
- Which one of the following is correct?**
- a) ① i & iii   ② ii & iii   ③ i & ii   ④ i, ii & iii
41. By helping— we create job websites. (Higher Ability)
- ICT
  - Internet
  - Computer
- Which one of the following is correct?**
- a) ① i & ii   ② ii & iii   ③ i & iii   ④ i, ii & iii
- Read the following passage and answer the question numbers 42 & 43 :
- By using internet, Onik searchs in job on various websites. There he choses one job and then writes an application and sends it through internet.
42. What kind of websites Onik visits? (Comprehensive)
- ① Movies sites   ② Social networking sites  
 ③ Song downloading sites   ④ Job sites
43. By using this device which Onik uses can do —. (Higher Ability)
- one can communicate with other anytime across the whole country
  - Pictures and file can be sent by this medium
  - Research can be done with this
- Which one of the following is correct?**
- c) ① i & iii   ② ii & iii   ③ i & ii   ④ i, ii & iii
-  **Communication** → Textbook Page 6
44. Who sang the song "Ami tomay Joto suniyechilem gaan."— during the War of Liberation in 1971? (Knowledge)
- [DB '19, RB, JB, SB, DjB, CtgB '17]
- ② Pankaj Mullick   ④ Subir Nondi  
 ③ Abdul Jabbar   ⑤ Abdul Hadi
45. When was Bangabandhu Satellite-1 sent to the space? (Knowledge) [DB '19]
- ② 2017, 22 May   ④ 2017, 12 May  
 ③ 2018, 12 May   ⑤ 2018, 22 May
46. How many kinds of system of communication are there? (Knowledge) [DB '19, BB '18]
- a) ① 2   ② 3   ③ 4   ④ 5
47. Communication method can be divided into— (Knowledge) [RB '19]
- a) ① 2   ② 3   ③ 4   ④ 5
48. 'Facebook', what type of website is this? (Knowledge) [RB '19]
- ① Picture viewing  
 ② Song downloading  
 ③ Newspaper reading and viewing  
 ④ Social communication
49. Example of Broadcast system— (Higher Ability) [RB '19]
- Telephone
  - Magazine
  - Newspaper
- Which one is correct?**
- c) ① i & ii   ② i & iii   ③ ii & iii   ④ i, ii & iii

50. Which medium is used by most of the people of the world for communication? (Knowledge) [JB '19]
- ① Facebook   ② E-mail  
 ③ Mobile   ④ Website
51. What is the name of the process that differentiate between man and machine? (Knowledge) [JB '19]
- ① Robot   ② Captcha  
 b) ③ Computer   ④ Scanner
52. In which way GPS helps driver? (Knowledge) [JB '19]
- To drive vehicle right way
  - To recognize traffic signal
  - To identify roads
  - To keep ok of vehicle engine
53. Who is singer of song 'Akashbani Radio' that was played in 13 August 1971 with the request of freedom fighters? (Knowledge) [CB '19]
- ① Abdul Hadi   ② Subir Nandi  
 ③ Pankaj Debnath   ④ Pankaj Mallick
54. How often does & satellite rotate around the earth and seems the earth fixed? (Knowledge) [CtgB '19]
- ① 96 hours   ② 72 hours  
 ③ 48   ④ 24 hours
55. Which website is used to find information in Internet? (Knowledge) [CtgB '19]
- ① www.chrome.com   ② www.google.com  
 ③ www.mozilla.com   ④ www.hotmail.com
56. Which one of the following was used for communication in most of the time during the war of liberation in 1971. (Knowledge) [SB '19]
- ① Computer   ② Television  
 ③ Radio   ④ Land phone
57. During liberation war in 1971 which device is used to send a signal to nava commandos? (Knowledge) [BB '19]
- ① Waki-talki   ② Television  
 ③ Telephone   ④ Radio
58. Which one was only the way to communicate abroad at past? (Knowledge) [DjB '19]
- ① Intranet   ② Internet   ③ Fax   ④ Letter
59. "Ami tomay joto suniyechilem gaan" – What was the song mainly? (Comprehensive) [DjB '19]
- ① Password   ② Entertainment  
 ③ Signal   ④ Communication
60. What opportunity does the automatic interactive voice technology give to the consumers? (Comprehensive) [DB '18]
- informs about definite time
  - responds any queries
  - gives information about particular book
  - gives recipe of different food
61. Which one plays an important role to send urgent texts, images and signatures of the sellers and buyers? (Knowledge) [DB '18]
- b) ① NIC   ② FAX   ③ EPOS   ④ GPS



62. What is the difference between television and radio? (Knowledge)
- Ⓐ We can hear sound
  - Ⓑ We can listen music
  - Ⓒ We can hear news
  - Ⓓ Ⓛ We can watch news
63. Which one of the following element can send news in whole rural areas? (Knowledge)
- Ⓐ Book Ⓛ Radio
  - Ⓑ Ⓛ Motor car Ⓛ Plain
64. What is the first medium of communication? (Knowledge)
- Ⓐ Duplex process Ⓛ Multicast process
  - Ⓑ Broadcast process Ⓛ Unicast process
65. What do you mean by one way process? (Knowledge)
- Ⓐ In a process where only sound can be heard
  - Ⓑ In a process where one can communicate with many people
  - Ⓒ One can just communicate with another person
  - Ⓓ Everybody can communicate with everybody
66. What is broadcast? (Knowledge)
- Ⓐ One way process
  - Ⓑ It is one kind of communication medium
  - Ⓒ One person
  - Ⓓ Above all
67. What it is called when a person communicates with other many person? (Knowledge)
- Ⓐ Duplex process Ⓛ Broadcast process
  - Ⓑ Ⓛ Unicast Ⓛ Multicast
68. Which one of the following process is the easiest example for broadcasting? (Knowledge)
- Ⓐ Radio Ⓛ Computer
  - Ⓑ E-mail Ⓛ Mobile phone
69. What sorts of communication process is TV? (Knowledge)
- Ⓐ Duplex Ⓛ Triplex
  - Ⓑ Ⓛ Broadcasting Ⓛ Multicast
70. Which one of the following example of Broadcasting? (Knowledge)
- Ⓐ Radio Ⓛ TV
  - Ⓑ Ⓛ Newspaper Ⓛ above all
71. What kind of communication medium is newspaper? (Knowledge)
- Ⓐ Multicast Ⓛ Broadcast
  - Ⓑ Ⓛ Triplex Ⓛ Duplex
72. What kind of communication process in magazine? (Knowledge)
- Ⓐ Broadcasting
  - Ⓑ triplex
  - Ⓒ It's not a communication process
  - Ⓓ Multicast
73. How can physician give the treatment from any country of the world? (Comprehensive)
- Ⓐ Video-conference Ⓛ Video-text
  - Ⓑ Ⓛ Tomography Ⓛ E-service

74. Two kinds of communication method is —. (Higher Ability)
- Monoplex method
  - Duplex method
  - Unicast
- Which one of the following is correct?
- Ⓐ Ⓛ i & ii Ⓛ ii & iii Ⓛ i & iii Ⓛ i, ii & iii
75. One way communication method's example is —. (Higher Ability)
- Radio
  - Telephone
  - Television
- Which one of the following is correct?
- Ⓑ Ⓛ i & ii Ⓛ i & iii Ⓛ ii & iii Ⓛ i, ii & iii
76. Which information is right for broadcast method —. (Higher Ability)
- This is duplex communication system
  - This is monoplex communication system
  - With this one can communicate with many people
- Which one of the following is correct?
- Ⓒ Ⓛ i & ii Ⓛ i & iii Ⓛ ii & iii Ⓛ i, ii & iii
77. Broadcast method example is —. (Higher Ability)
- Newspaper
  - Magazine
  - Mobile phone
- Which one of the following is correct?
- Ⓐ Ⓛ i & ii Ⓛ ii & iii Ⓛ i & iii Ⓛ i, ii & iii
78. At present newspaper reading facilities can be gotten by —. (Higher Ability)
- Computer screen
  - Television
  - Smart mobile phone
- Which one of the following is correct?
- Ⓓ Ⓛ i & ii Ⓛ i, ii & iii Ⓛ i & iii Ⓛ i & iii
79. At present the biggest medium of communication is —. (Higher Ability)
- Mail
  - Telephone
  - E-mail
- Which one of the following is correct?
- Ⓒ Ⓛ i & ii Ⓛ i & iii Ⓛ ii & iii Ⓛ i, ii & iii
80. Video conference is a medium — (Higher Ability)
- By which only can be talked
  - This is an international communication system
  - By which we can see and talk
- Which one of the following is correct?
- Ⓓ Ⓛ i & ii Ⓛ i & iii Ⓛ ii & iii Ⓛ i, ii & iii
- Take a good look of this following images and answer the question Nos. 81 & 82.
- 
81. What is the name of this machine? (Comprehensive)
- Ⓐ Mobile Ⓛ Laptop
  - Ⓑ Notebook Ⓛ Computer

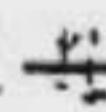
82. What kind of work is done by that device? *(Higher Ability)*

- i. Calculation
- ii. Money can receive
- iii. Playing game

Which one of the following is correct?

- C** ① i & ii   ② ii & iii   ③ i & iii   ④ i, ii & iii  
**E** Read the following passage and answer the question numbers 83 & 84 :

One day after returning from school to home Rakib saw that India and Pakistan teams are playing cricket. Quickly he washed his face and sat down to watch the game. Because he likes cricket game very much.

83. The medium which Rakib uses mainly is called  *(Comprehensive)*

- ① One way communication
- ② three way communication
- ③ two way communication

- a** ④ Unicast

84. By using which medium of information can be sent with this communication medium? *(Higher Ability)*

- i. Radio
- ii. Newspaper
- iii. Mobile phone

Which one of the following is correct?

- B** ① ii & iii   ② i & ii   ③ i & iii   ④ i, ii & iii

 Importance of Information and Communication Technology in Business  Textbook Page 10

85. What is the elaboration of EPOS? *(Comprehensive) [JB '19]*

- ① Emergency point of sale
- ② Electrical point of sale
- ③ E-point of sale

**a** ④ Electronic point of sale

86. Through which the business dealing is improved more? *(Knowledge) [CB '19]*

- ① E-purji
- ② Computer

- a** ③ Bill Payment   ④ Intranet

87. Which of the following is done by EPOS system? *(Knowledge) [SB '19]*

- ① To preserve all the information's of sale
- ② To fix the cost of the products
- ③ To preserve all the information's of purchase

- a** ④ To purchase goods

88. Which term is related with ATM? *(Higher Ability) [DJB '19]*

- i. Paper
- ii. Bank
- iii. Credit and Debit Card

Which one is correct?

- C** ① i & ii   ② i & iii   ③ ii & iii   ④ i, ii & iii

89. For the application of ICT, to register a farm from the website of the Registrar of Joint Stock Company and Farms how many days does it take at present? *(Knowledge) [DB '18]*

- d** ① 30   ② 14   ③ 7   ④ 4

90. What is EPOS? *(Knowledge) [JB '18]*

- ① Telecast the service news of goods to whole world
- ② Information preserving and monitoring of selling items
- ③ Communicate with different organizations about business

- b** ④ Analysis market condition

91. Which of the following has made the communication among people within the same business organisation smooth may be situated in different location? *(Knowledge) [BB '18]*

- ① Facebook
- ② Intranet

- b** ③ e-mail   ④ e-book

92. A big cost of business is—

*(Knowledge) [RB; JB; SB; DjB; CtgB '17]*

- ① Production
- ② Promotion

- c** ③ Stock of products   ④ Market analysis

93. What is the full form of EPOS? *(Knowledge) [All Board '16]*

- ① E-Point of Sale
- ② Electronic Point of Sale

- b** ③ Electric Point of Sale

- b** ④ Emergency Point of Sale

94. Which one is fastest media of sending money from abroad to home? *(Knowledge) [All Board '14]*

- ① T. T.
- ② M.T.

- c** ③ Mobile   ④ D. D.

95. How can we watch different companies working progress at a time? *(Knowledge)*

- ① E-mail
- ② By using internet dependent service method

- b** ③ Video chat   ④ Video conference

96. In which way do industrialized factories keep their producing data? *(Comprehensive)*

- ① Mobile
- ② Computer

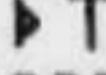
- b** ③ Hardware   ④ Internet

97. The current information of requisite stock can be known by—. *(Comprehensive)*

- ① Using hardware
- ② Maintaining stock production

- c** ③ Using computer

- d** ④ Using specialised software

 The Application of Information and Communication Technology in Government Activities  Textbook Page 12

98. The services of the government activities are brought to the door steps of the citizens— *(Higher Ability) [DB '19]*

- i. by mobile phone
- ii. by radio
- iii. by internet

Which one is correct?

- a** ① i & ii   ② i & iii   ③ ii & iii   ④ i, ii & iii



- 99. Which website is used for information commission in Bangladesh? (Knowledge) [JB '19, CtgB '19]**
- Ⓐ www.infocom.gov.bd
  - Ⓑ www.incom.gov.bd
  - Ⓒ www.in formcom.gov.bd
  - Ⓓ Ⓑ www.information.gov.bd
- 100. National web portal of Bangladesh government is— (Knowledge) [CB '19]**
- Ⓐ www.bangladesh.gov.bd
  - Ⓑ www.bangladesh.com.bd
  - Ⓒ www.bangladesh.ebook.bd
  - Ⓓ Ⓑ www.bangladesh.gmail.com
- 101. Which one is the popular Search Engine? (Knowledge) [CB '19]**
- Ⓐ www.pipilika.com
  - Ⓑ www.google.com
  - Ⓒ www.wolframalpha.com
  - Ⓓ Ⓑ www.khanacademy.com
- 102. What is the imprisonment duration for hacking according to ICT Act-2006 (Revised in 2009)? (Knowledge) [CB '19, SB '19]**
- Ⓐ 4–7 years
  - Ⓑ 5–7 years
  - Ⓒ 3–7 years
  - Ⓓ 2–7 years
- 103. How many countries of the world has been given the National Information Act identity till 2013? (Knowledge) [CB '19]**
- Ⓐ 63
  - Ⓑ 73
  - Ⓒ 83
  - Ⓓ 93
- 104. At present by which media is the result of Public Exam. cab be got? (Knowledge) [CtgB '19]**
- Ⓐ bdjobs
  - Ⓑ Internet
  - Ⓒ roc.gov.bd
  - Ⓓ NCTB
- 105. Which cultivators get e-permit? (Knowledge) [SB '19]**
- Ⓐ Paddy cultivators
  - Ⓑ Wheat cultivators
  - Ⓒ Potato cultivators
  - Ⓓ Sugarcane cultivators
- 106. Citizen services are— (Higher Ability) [BB '19]**
- i. published the results of public examinations
  - ii. provides Law and Act
  - iii. online registration
- Which one is correct?**
- Ⓐ Ⓑ i & ii   Ⓒ i & iii   Ⓓ ii & iii   Ⓔ i, ii & iii
- 107. What is the National Web Portal of Bangladesh Government? (Knowledge) [DjB '19]**
- Ⓐ www.banglatest.info.gov.com
  - Ⓑ www.bangladesh.gov.bd.com
  - Ⓒ www.bangladesh.gov.bd
  - Ⓓ Ⓑ www.bangladesh.gov.bd.info
- 108. The web address of Bangladesh Information Commission— (Knowledge) [DjB '19]**
- Ⓐ www.info.gov.bd
  - Ⓑ www.infocom.gov.bd
  - Ⓒ www.bdinfo.gov
  - Ⓓ Ⓑ www.info.bd.com

- 109. What is the full form of 'SMS'? (Knowledge) [RB '18]**
- Ⓐ Short Message Service
  - Ⓑ Short Massege Service
  - Ⓒ Short Mobile Service
  - Ⓓ Short Message Servicing
- 110. Now a days how much time is needed to complete online registration process? (Knowledge) [RB '18]**
- Ⓐ 30 days
  - Ⓑ 7 days
  - Ⓒ 4 days
  - Ⓓ less than 1 day
- 111. What kind of service is e-settlement records? (Knowledge) [CB '18]**
- Ⓐ Government service
  - Ⓑ Social service
  - Ⓒ Income tax service
  - Ⓓ Technical service
- 112. Which one is the e-book platform made by government? (Knowledge) [CtgB '18]**
- Ⓐ www.ebok.org.bd
  - Ⓑ www.ebook.com.bd
  - Ⓒ www.ebook.gov.bd
  - Ⓓ www.ebook.net.bd
- 113. Using of ICT in Government activities the examples are—. (Higher Ability) [CtgB '18]**
- i. e-book
  - ii. e-statement record
  - iii. e-permit
- Which one is correct?**
- Ⓐ Ⓑ i & ii   Ⓒ i & iii   Ⓓ ii & iii   Ⓔ i, ii & iii
- 114. For using e-permit —. (Knowledge) [BB '18]**
- Ⓐ will get the result of public exam.
  - Ⓑ collecting settlement records of land
  - Ⓒ easily money transfer
  - Ⓓ Ⓑ will supply sugarcane has been digitized by the approval of sugar-mill authority
- 115. What is the e-book platform created by government? (Knowledge) [BB '18]**
- Ⓐ www.ebook.org.bd
  - Ⓑ www.ebook.com.bd
  - Ⓒ www.ebook.gov.bd
  - Ⓓ www.ebook.net.bd
- 116. What is full form of 'SMS'? (Knowledge) [DjB '18]**
- Ⓐ Short Message service
  - Ⓑ Short Money system
  - Ⓒ Sequential Message service
  - Ⓓ Short message system
- 117. In which site can get textbooks? (Knowledge) [DB; CB; BB '17]**
- Ⓐ www.ebook.bd
  - Ⓑ www.ebook.gov.bd
  - Ⓒ www.ebook.com
  - Ⓓ www.ebook.com.bd
- 118. An important part of state is—. (Knowledge) [RB; JB; SB; DjB; CtgB '17]**
- Ⓐ Government
  - Ⓑ Politics
  - Ⓒ Internet
  - Ⓓ Commerce
- 119. Which is the national web portal of the government of Bangladesh? (Knowledge) [All Board '16]**
- Ⓐ www. bangladeshinfo.gov.com
  - Ⓑ www.bangladesh.gov.bd
  - Ⓒ www.bangladesh.gov.bd.com
  - Ⓓ Ⓑ www.bangladesh.gov.bd.info
- 120. What is SMS? (Knowledge)**
- Ⓐ Short Message Service
  - Ⓑ Short Money System
  - Ⓒ Sequential Message Service
  - Ⓓ Short Message System

- 121.** What kind of software is approved by any company for taking information about their stuff? *(Knowledge)*
- Ⓐ Browsing software
  - Ⓑ Networking software
  - Ⓒ Any kinds of database software
  - Ⓓ Any kinds of software
- 122.** Which machine is used for taking money by debit or credit card? *(Knowledge)*
- Ⓐ ATM
  - Ⓑ Bank
  - Ⓐ Mobile
  - Ⓓ Mobile banking
- 123.** What is ATM? *(Knowledge)*
- Ⓐ Associate Transfer Media
  - Ⓑ Automated Transfer Machine
  - Ⓒ Automated Teller Machine
  - Ⓓ Associate Teller Machine
- 124.** Which one of the following sector is important for State? *(Knowledge)*
- Ⓐ Government
  - Ⓑ Ministry
  - Ⓐ Secretary office
  - Ⓓ Govt. organization
- 125.** In which sector of government apply information technology? *(Knowledge)*
- Ⓐ e-porcha
  - Ⓑ e-gov.ness
  - Ⓒ publishing government information
  - Ⓓ All governing work
- 126.** Which medium plays an important role for sending any special news of government to public? *(Knowledge)*
- Ⓐ Computer
  - Ⓑ Mobile phone
  - Ⓐ Laptop
  - Ⓓ Internet
- 127.** Today, how many people are using mobile phone in Bangladesh? *(Knowledge)*
- Ⓐ Almost one billion
  - Ⓑ Almost one million
  - Ⓒ Almost one and half billion
  - Ⓓ Almost one and half million
- 128.** What is called mobile phone's message? *(Knowledge)*
- Ⓐ MMS
  - Ⓑ MKS
  - Ⓒ SMS
  - Ⓓ SME
- 129.** What is citizen service? *(Comprehensive)*
- Ⓐ One kind of private service
  - Ⓑ Government service which is reachable for all kinds of people
  - Ⓒ Only for public employee
  - Ⓓ For foreign citizenship people
- 130.** Government main objective is—. *(Higher Ability)*
- i. to create the secure job place
  - ii. not using information technology
  - iii. to prevent from poverty
- Which one of the following is correct?
- Ⓐ Ⓐ & ii
  - Ⓑ i & iii
  - Ⓒ ii & iii
  - Ⓓ i, ii & iii
- 131.** What is necessary to publish government's news online—. *(Higher Ability)*
- i. Websites
  - ii. Mobile phone
  - iii. Internet
- Which one of the following is correct?
- Ⓐ i & ii
  - Ⓑ ii & iii
  - Ⓒ i & iii
  - Ⓓ i, ii & iii

- 132.** At present sending/transferring money is easier because of— *(Higher Ability)*
- i. Mobile banking
  - ii. Postal cash card
  - iii. Internet
- Which one of the following is correct?
- Ⓐ Ⓐ & ii
  - Ⓑ ii & iii
  - Ⓒ i & iii
  - Ⓓ i, ii & iii
- 133.** Online is used for—. *(Higher Ability)*
- i. publish national exam's result
  - ii. bill payment of utility
  - iii. collect the ticket of utility
- Which one of the following is correct?
- Ⓐ Ⓐ & ii
  - Ⓑ ii & iii
  - Ⓒ i & iii
  - Ⓓ i, ii & iii
- 134.** Which device can take three dimensional images from inner side of patient body? *(Knowledge) [CB '19]*
- Ⓐ Positron emotion Tomography
  - Ⓑ Digital Photography
  - Ⓒ Ultra-Sonography
  - Ⓓ MRI
- 135.** What is the name of the technology to diagnose by taking three dimensional images of the patient's body? *(Knowledge) [CtgB '19]*
- Ⓐ X-ray
  - Ⓑ Positron emission tomography
  - Ⓒ CT Scan
  - Ⓓ ECG
- 136.** What is Telemedicine? *(Comprehensive) [SB '19]*
- Ⓐ A way of buying medicine over telephone
  - Ⓑ A way of buying and selling over telephone
  - Ⓒ A way of having medical service over telephone
  - Ⓓ A way of purchasing land over telephone
- 137.** What kind of picture of the patient's body can be made by using position emission tomography machine? *(Knowledge) [DB '18]*
- Ⓐ One dimensional
  - Ⓑ Two dimensional
  - Ⓒ Three dimensional
  - Ⓓ Four dimensional
- 138.** For using Information and Communication Technology in health care it should be possible—. *(Higher Ability) [CtgB '18]*
- i. making plans perfectly
  - ii. reducing the cost of health care
  - iii. reducing the child mortality rate
- Which one is correct?
- Ⓐ Ⓐ & ii
  - Ⓑ i & iii
  - Ⓒ ii & iii
  - Ⓓ i, ii & iii
- 139.** For detection of disease we needs—. *(Higher Ability) [DjB '18]*
- i. computer
  - ii. internet
  - iii. ultrasonogram
- Which one is correct?
- Ⓐ Ⓐ & iii
  - Ⓑ i & ii
  - Ⓒ ii & iii
  - Ⓓ i, ii & iii
- 140.** Which medium plays an important rule for giving healthcare service to every area? *(Knowledge)*
- Ⓐ Television
  - Ⓑ Teleconference
  - Ⓒ Teletalk
  - Ⓓ Telemedicine

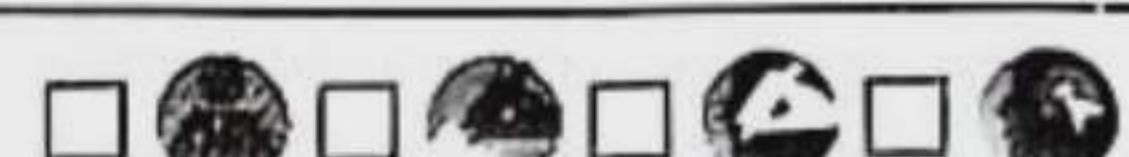


- 141.** What is the name of service which have been set up in many places of the country to take the healthcare facilities on the doorsteps of people? *(Knowledge)*
- a** Ⓛ E-medicine      Ⓜ Telemedicine  
**b** Ⓛ Tele service      Ⓜ E-settlement record
- 142.** Which has brought visible changes in health-care? *(Knowledge)*
- a** Ⓛ Good doctors      Ⓜ Information technology  
**b** Ⓛ By computer      Ⓜ By telemedicine
- 143.** Nowadays, treatment depends on? *(Knowledge)*
- a** Ⓛ Surgery dependent      Ⓜ Internet dependent  
**c** Ⓛ Technology dependent      Ⓜ Mobile dependent
- 144.** What is help for taking healthcare service from one country to another country in the whole world? *(Knowledge)*
- a** Ⓛ Mobile phone  
**b** Ⓛ Information and communication technology  
**c** Ⓛ Social networking  
**d** Ⓛ E-mail
- 145.** For determine a patient's disease, what doesn't has doctor done? *(Comprehensive)*
- a** Ⓛ No need to use technology  
**b** Ⓛ No need to use computer  
**c** Ⓛ No need to prescribe medicine  
**d** Ⓛ No need to depend on prediction
- 146.** What is the reason of correction of prescribed medicine? *(Comprehensive)*
- a** Ⓛ Good doctor      Ⓜ Correct medicine  
**c** Ⓛ Information technology      Ⓜ Telemedicine
- 147.** Which work does the computer scanner do? *(Knowledge)*
- a** Ⓛ Creates medicine  
**b** Ⓛ Judgeing the difference in between system of diseases  
**c** Ⓛ Maintaining the limit of medicine  
**d** Ⓛ By determining any unusual movement in brain and body
- 148.** — treatment is provided by our mobile phone operators. *(Knowledge)*
- a** Ⓛ Internet      Ⓜ SMS  
**b** Ⓛ MMS      Ⓜ Telemedicine
- 149.** We can see the changes on healthcare system because of—. *(Higher Ability)*
- i. Mobile phone  
ii. Telemedicine  
iii. E-governnce
- Which one of the following is correct?**
- a** Ⓛ i & ii      Ⓜ ii & iii      Ⓝ i & iii      Ⓞ i, ii & iii
- 150.** Telemedicine is—. *(Higher Ability)*
- i. related with treatment  
ii. taken by telephone  
iii. to store information of patient
- Which one of the following is correct?**
- d** Ⓛ i, ii & iii      Ⓜ ii & iii      Ⓝ i & iii      Ⓞ i & ii

- 161.** Using computer for healthcare—. *(Higher Ability)*
- i. predicted diseases can be told  
ii. It reduces the chances of mistake  
iii. Poor quality medicine is found
- 292** Which one of the following is correct?
- a** Ⓛ i & ii      Ⓜ ii & iii      Ⓝ i & iii      Ⓞ i, ii & iii
- 152.** To determine diseases — is used. *(Higher Ability)*
- i. Information technology  
ii. Internet  
iii. Computer
- Which one of the following is correct?**
- d** Ⓛ i & ii      Ⓜ ii & iii      Ⓝ i & iii      Ⓞ i, ii & iii
- 2** Read the following passage and answer the question numbers 153 & 154 :
- Health is wealth. But the village people are far away from health facilities. Now using information technology this problem is solved.
- 153.** The facilities which village people are getting used is called—. *(Comprehensive)*
- a** Ⓛ Telemedicine      Ⓜ E-commerce  
**c** Ⓛ E-settlement record      Ⓜ E-governance
- 154.** What is the reason to become it easier healthcare facilities? *(Higher Ability)*
- i. Information technology  
ii. Mobile  
iii. Telephone
- Which one of the following is correct?**
- d** Ⓛ i & ii      Ⓜ i & iii      Ⓝ ii & iii      Ⓞ i, ii & iii
- 155.** Which service is playing role to provide medical services in small town or village? *(Knowledge)*
- [RB '19]**
- a** Ⓛ e-service      Ⓜ e-healthcare  
**c** Ⓛ Telemedicine      Ⓜ Internet
- Research** ► Textbook Page 17
- 156.** Micro controllers those work as a computers are— *(Higher Ability) [DB '19]*
- i. EPOS  
ii. FPGA  
iii. PLA
- Which one is correct?**
- c** Ⓛ i & ii      Ⓜ i & iii      Ⓝ ii & iii      Ⓞ i, ii & iii
- 157.** Which site can be used to get necessary information about almost all subjects by a student? *(Knowledge) [RB '19]*
- a** Ⓛ www.wolframalpha.com  
**b** Ⓛ www.khanacademy.com  
**c** Ⓛ www.ebook.com  
**d** Ⓛ www.piplika.com
- 158.** Most important part of research is— *(Higher Ability) [JB '19]*
- i. Computer  
ii. Website  
iii. Internet
- Which one is correct?**
- d** Ⓛ i & ii      Ⓜ i & iii      Ⓝ ii & iii      Ⓞ i, ii & iii

159. Which revolution will begin by the invention of genome? (Knowledge) [JB '19]  
 ④ Reduce the symptom of diseases  
 ⑤ Free from diseases by identifying reasons  
 ⑥ Invention of injection of specific diseases  
 ⑦ Self-treatment can be done in home
160. Which is the virtual laboratory work website? (Knowledge) [CtgB '19]  
 ④ www.pla.com  
 ⑤ www.upwork.com  
 ⑥ www.colframalpha.com  
 ⑦ www.softpedia.com
161. Which of the following website is known as virtual laboratory? (Knowledge) [BB '19]  
 ④ www.ebook.com  
 ⑤ www.bikroy.com  
 ⑥ www.softpedia.com  
 ⑦ www.khanacademy.com
162. Which one is micro controller? (Knowledge) [DB '18]  
 ④ GPS ⑤ PLA ⑥ GPAF ⑦ LAP
163. The work of the research made easier by —. (Higher Ability) [CtgB '18]  
 i. FPGA  
 ii. PLA  
 iii. SMS  
 Which one is correct?  
 ④ ① i & ii ⑤ i & iii ⑥ ii & iii ⑦ i, ii & iii
164. How many kinds of research are there? (Knowledge)  
 ④ ① 2 ② 3 ③ 4 ④ 5
165. Which work do we do on theoretical research? (Knowledge)  
 ④ Practical work ⑤ Theoretical work  
 ⑥ Computer work ⑦ Laboratory work
166. What is called the researcher only concentrate on the theoretical part? (Knowledge)  
 ④ Practical research ⑤ Computer research  
 ⑥ Result ⑦ Theoretical research
167. In what thing does the researcher rely on doing theoretical research? (Knowledge)  
 ④ Computer ⑤ Mobile  
 ⑥ Robot ⑦ Machineries
168. Why database is needed for doing theoretical research? (Knowledge)  
 ④ To know information/details  
 ⑤ To make information/details  
 ⑥ To transfer the information  
 ⑦ To keep/secure the information
169. How do machineries use on laboratory? (Knowledge)  
 ④ Database ⑤ Hardware  
 ⑥ Computer ⑦ Phone
170. What is used for using many machineries on laboratory? (Knowledge)  
 ④ Radio ⑤ Television  
 ⑥ Computer ⑦ DVD

171. What is used for creating new machineries at laboratory? (Comprehensive)  
 ④ Computer ⑤ Hardware  
 ⑥ Software ⑦ Programme
172. What is used to collect information from another device? (Knowledge)  
 ④ Telephone ⑤ Tomography machine  
 ⑥ Scanner ⑦ Computer
173. In — machineries are used for experiment to process at laboratory. (Comprehensive)  
 ④ Practical research ⑤ Theoretical research  
 ⑥ Programme ⑦ Database
174. Which of the following device can work like computer? (Knowledge)  
 ④ Microcontroller ⑤ FPGA  
 ⑥ PLA ⑦ Above all
175. How can micro controller be used for working? (Knowledge)  
 ④ After processing  
 ⑤ After collecting information  
 ⑥ By fitting into many devices  
 ⑦ By using software as computer
176. Which of the following device can be used for research after fitting into a device? (Knowledge)  
 ④ PLA ⑤ PDA ⑥ SMS ⑦ EPOS
177. What is used for making many machineries control for practical research work? (Knowledge)  
 ④ Cryogen ⑤ Microcontroller  
 ⑥ Database software ⑦ Internet
178. What is called doing in laboratory? (Knowledge)  
 ④ Theoretical research ⑤ Information collect  
 ⑥ Practical research ⑦ Research
179. How can researcher experiment even staying far away from laboratory? (Knowledge)  
 ④ By sending information ⑤ By using networking  
 ⑥ By storing information ⑦ By talking
180. The application of information technology is —. (Higher Ability)  
 i. in business system  
 ii. in treatment system  
 iii. in education system  
 Which one of the following is correct?  
 ④ ① i & ii ② ii & iii ③ i, ii & iii ④ i & iii
181. Which is helping in research —. (Higher Ability)  
 i. Computer  
 ii. Information technology  
 iii. Listening song  
 Which one of the following is correct?  
 ④ ① i & ii ② ii & iii ③ i & iii ④ i, ii & iii
182. What must be done in case of working with information technology? (Higher Ability)  
 i. The collect information  
 ii. To make information  
 iii. To analyse information  
 Which one of the following is correct?  
 ④ ① i & ii ② ii & iii ③ i & iii ④ i, ii & iii

**Short Q/A****Designed as per topic****► The Importance of Information and Communication Technology ▶ Textbook Page 2****Question 1. Write two uses of Information and Communication Technology in education.**

**Ans.** Information and Communication Technology (ICT) is used in various ways in education. Two important uses are :

1. ICT can be used to easily apply for various admission tests.
2. ICT can be used to get the results of any examination from home.

**Question 2. Explain how the development of technology has made sending money very easy.**

**Ans.** Sending money has become very easy due to the use of modern technology. We can easily send money anywhere in the world through mobile banking, internet banking, and various money transfer apps. This has reduced both time and cost. More importantly, it is safe and convenient.

**Question 3. Explain the impact of Information and Communication Technology on transportation.**

**Ans.** Information and Communication Technology has completely changed the transportation system. We can easily book vehicles, avoid traffic jams, and find the best routes through GPS, smartphone apps, and online booking systems. In addition, new technologies such as self-driving cars and drones are bringing more efficiency and safety to the transportation system.

**► Information and Communication Technology in Creating and Getting Job ▶ Textbook Page 4****Question 4. Explain how some traditional jobs have become obsolete due to the development of information technology.**

**Ans.** Many traditional jobs have become obsolete due to the rapid development of information technology. For example, computers have replaced typewriters, spreadsheets have replaced accountants, and mobile banking apps have replaced money orders. In addition, many factory jobs are now done by robots. As a result, there are fewer jobs for people, and they have to acquire new skills.

**Question 5. Explain "Connectivity is Productivity".**

**Ans.** "Connectivity is Productivity" means that when people are connected to technology, their productivity increases. This results in the creation of new jobs. Although the development of information technology has eliminated some traditional jobs, it has created countless new jobs. Employment opportunities have increased rapidly

with the increase in internet connectivity. Therefore, it can be said that the application of information and communication technology has increased productivity.

**Question 6. How does information technology increase productivity?**

**Ans.** Productivity increases through the application of information technology. According to Dr. Iqbal Quadir, "Connectivity is Productivity". By increasing skills through technology, institutions are able to get more work done with fewer employees, which is the main reason for increasing productivity.

**Question 7. How is automated technology used in the workplace?**

**Ans.** The use of automated technology is increasing day by day in today's world. It is used to do dangerous work in various factories by robots or automated machines, to complete employee attendance and salary accounts through software, and to provide 24-hour service to customers with automatic interactive voice technology.

**Question 8. Describe the use of information technology in the workplace or office.**

**Ans.** The use of information technology is very common in the modern workplace. Employees exchange information, coordinate work, and make decisions through email, video conferencing, cloud storage, and project management software. In addition, it is possible to increase performance through online training, automation, and data analysis. Many companies now store and manage information such as attendance, salary, and allowances digitally.

**Question 9. Explain how the expansion of mobile phones in Bangladesh is creating new employment opportunities.**

**Ans.** The expansion of mobile phones in Bangladesh has brought about a huge change in the country's economy and employment. New sectors such as job opportunities in mobile phone companies, mobile phone sales, marketing and maintenance, mobile services, and mobile banking have been created. As a result, employment opportunities have been created for millions of people.

**Question 10. How does 'Jobsite' work? Explain.**

**Ans.** Jobsite is an online platform where employers and job seekers find each other. Employers publish notifications to apply for vacant positions in their organizations. On the other hand, job seekers search for jobs according to their qualifications and experience and apply. Jobsites provide the facility to upload resumes and communicate directly with employers.

**Question 11. How has the internet made the process of getting job opportunities easier?**

Ans. Recruitment notifications are published on jobsites through the internet, which job seekers can see instantly. Registered candidates are informed about new job news through email or SMS. As a result, getting job opportunities has become easier.

**Question 12. What is outsourcing? Explain.**

Ans. Outsourcing is when an organization gets some or all of its work done by workers in another country. Usually, if a job is not the main job of an organization or if it does not have the necessary skills or resources to do that job, then that job is outsourced. Through outsourcing, an organization can focus more on its main work and reduce costs. At the same time, workers get the opportunity to earn money from home.

**Question 13. Discuss what kind of work is done through outsourcing.**

Ans. Due to the development of the internet, opportunities have been created for third world countries to do work for other countries from home. Through outsourcing, various organizations around the world get a lot of their work done by workers in other countries, such as website development, maintenance, monthly salary bill preparation, updating information on websites, and software development. Anyone can be involved in this type of work if they have an internet connection. In this case, language skills are required along with work skills.

**Question 14. Which sites are used as outsourcing platforms in Bangladesh?**

Ans. When an organization gets its work done by an outside worker, that is called outsourcing. Popular sites used as outsourcing platforms in Bangladesh are Upwork, Freelancer, and Elance. Through these, freelancers of the country can connect with international work and get the opportunity to earn from home.

### Communication

► Textbook Page 6

**Question 15. How many ways can the communication system be divided?**

Ans. The communication system can be divided into two parts: one-way and two-way. In the one-way system, a person or organization communicates with many people, such as radio and television. On the other hand, in the two-way system, both parties can participate in communication, such as the telephone.

**Question 16. What is meant by one-way communication?**

Ans. One-way communication is a method where information is sent from one side and the receiver receives it but does not have the opportunity to reply. Radio and television are examples of one-way communication.

**Question 17. What is meant by broadcast?**

Ans. Broadcast is a type of communication system where a sender can send his message to many receivers at the same time. It is used in mediums like television, radio, and the internet. A broadcaster broadcasts his message through a specific channel and his audience receives that message through that channel. But in this case, the audience cannot communicate in return.

**Question 18. Write the difference between one-way and two-way communication systems.**

Ans. The difference between one-way and two-way communication systems is as follows:

One-way communication	Two-way communication
1. Where a person or an organization communicates with multiple people, but there is no opportunity to respond.	1. Where there is an opportunity for direct exchange of information between two parties.
2. It works in a one-way or broadcast method. For example, radio, television, newspapers, etc.	2. It works in a dialogue-based method. For example, phone, video calls, chat, etc.

**Question 19. Explain the importance of ICT in the great liberation war.**

Ans. The ICT device, radio, played an important role in signaling the freedom fighters participating in the great liberation war of 1971. At the request of the freedom fighters, a song "Ami tomay joto suniyechilem gaan" sung by famous singer Pankaj Mullick was played on Akashbani radio on 13th August. That song was a signal, after hearing which the naval commandos understood that it was time to strike. In this way, the ICT device, radio, played an important role in achieving independence in the great liberation war.

**Question 20. How was communication done using signals during the liberation war?**

Ans. During the liberation war, on 15th August 1971, the freedom fighter naval commandos sank many Pakistani ships in Chittagong port by planting mines. Freedom fighters used special signals to inform about the date and time of this daring operation. At their request, the song "Ami tomay joto suniyechilem gaan" sung by Pankaj Mullick was played on Akashbani radio on 13th August. Hearing that song, the freedom fighters understood that it was time to strike.



**Question 21. What are some examples of broadcast methods?**

**Ans.** Examples of broadcast methods are radio, television, newspapers, magazines, and online newspapers. In this method, information is delivered to many people in a one-way manner. However, in this case, the audience cannot communicate in return.

**Question 22. What is meant by web conferencing?**

**Ans.** Web conferencing is a technology that uses the internet to help conduct online meetings, seminars, and video or audio conferencing. It provides the opportunity to organize virtual meetings across geographical distances. Through this, from two to several thousand people can communicate with each other at the same time.

**Question 23. Mention the uses of web conferencing.**

**Ans.** Web conferencing refers to various types of online conferencing services, including webinars, webcasts, and web meetings, using different media (audio, video, or both) over the internet. Currently, web conferencing technology is widely used for holding meetings among employees of an organization, arranging telemedicine sessions involving doctors, patients, and hospitals, and organizing virtual get-togethers within a community for social interaction.

**Question 24. What are the features of web conferencing software?**

**Ans.** Web conferencing software features include video conferencing, audio conferencing, slideshow presentations, file sharing, internal message chat, and session recording. It is essential for virtual meetings.

**Question 25. How is video conferencing conducted?**

**Ans.** Video conferencing software, using appropriate hardware, provides a virtual face-to-face experience for individuals located in different geographical areas during a meeting. This software sets up a virtual meeting room where two to several thousand participants can gather from anywhere. In this case, a moderator or presenter controls the meeting.

**Question 26. How does audio conferencing work? Explain.**

**Ans.** Phone calls and conference calls can be made at low cost using audio conferencing software. It is usually included with video conferencing software. In this case, you can communicate with people connected to the conference by keeping the video camera off.

**Question 27. What are the benefits of organizing meetings in the virtual world?**

**Ans.** The benefit of organizing meetings in the virtual world is that video or audio conferencing can be done across geographical distances. It is used for business meetings, telemedicine, and maintaining social communication.

**Importance of Information and Communication Technology in Business** ➤ Textbook Page 10

**Question 28. Write the importance of Information and Communication Technology (ICT) in business.**

**Ans:** The importance of Information and Communication Technology in business is mentioned below:

1. A large volume of work can be done in a short time. This reduces business costs.
2. The updated information of the required stock can be known through the use of specialized software techniques, so that production can be arranged accordingly.
3. If various ICT-controlled equipment is used, including automation of production, more production can be done in less time.
4. News of products can be spread on various websites and social networking sites through the internet. This helps in the promotion of products.

**Question 29. Explain how business costs can be reduced using ICT.**

**Ans.** How business costs can be reduced using ICT is explained below:

1. Controlling the stock of goods using specialized software.
2. Automation of production systems.
3. Improved communication systems.
4. Proper maintenance of accounts.
5. Marketing or promotion of products or services.
6. Sales management and accounts.
7. Price collection.

**Question 30. What is the role of ICT in inventory control?**

**Ans.** Through the use of specialized software through ICT, traders can get updated information about their products' inventory. This helps in controlling inventory based on market demand. As a result, production costs can be reduced and business profits can be increased without keeping more inventory than necessary.

**Question 31. What is the role of ICT in production management?**

**Ans.** ICT improves the production system through the use of automated machinery and software. This makes it possible to produce more in less time and reduces costs. In addition, the use of ICT in labor management increases efficiency and helps bring dynamism to production.

**Question 32. What is the contribution of ICT to improved communication systems?**

**Ans.** Fast and effective communication has been made possible through mobile phones, email, fax, internet and intranet. Businesses can be managed

## Information and Communication Technology

remotely through mobile, important documents can be sent through fax, and information and pictures about products can be easily exchanged through email. This is how ICT is contributing to the communication system.

### Question 33. Why is email so important for business?

**Ans.** Email is very important for business. Because written communication can be done quickly through it. Even product images can be sent to the buyer. If the evaluation of another buyer about the product has been published on the internet, then its link can also be sent.

### Question 34. How is mobile phone helpful in business?

**Ans.** Mobile phones help businesses communicate quickly. It enables a businessman to manage business even from a remote location. Multiple people can be discussed simultaneously through conference calls. As a result, business decisions can be made quickly and service quality improves.

### Question 35. How does the internet help in business?

**Ans.** The internet helps in disseminating business information, maintaining contact with customers, online marketing, and gathering information about competitors. It promotes products and services worldwide, which expands business. Apart from this, direct product selling is also possible through e-commerce platforms.

### Question 36. How is intranet used in the field of business?

**Ans.** The various offices of many business establishments are geographically scattered in different places. In these cases, the internet established among themselves is making a great improvement in the management of their business. The internet established among themselves is the intranet. That is, intranet is used to coordinate the entire organization of a business establishment.

### ☞ The Application of Information and Communication Technology in Government Activities → Textbook Page 12

### Question 37. How does the government use information technology to disseminate information?

**Ans.** Currently, all information can be delivered directly to the public through websites or portals. The address of the national web portal of the Government of Bangladesh is [www.bangladesh.gov.bd](http://www.bangladesh.gov.bd). In addition, the government easily publishes government notices, orders, directives and important information for the public through mobile apps and social media platforms.

### Question 38. What is the role of ICT in enacting and amending laws and regulations?

**Ans.** The process of enacting and amending laws and regulations has become easier with ICT. Public

opinion is taken by publishing draft laws on various government websites and social media. Policymakers can analyze public opinion collected through call centers and email. This has brought transparency in government decision-making as well as made public opinion important. As a result, laws and regulations are becoming more timely and effective.

### Question 39. How are mobile phones used to disseminate government information?

**Ans.** With nearly 120 million mobile users in Bangladesh, it is being used as one of the most effective means of disseminating government information. Various emergency announcements, government decisions or messages related to special days are delivered to the public through mobile phone Short Message Service (SMS) or voice calls. For example, various health guidelines, vaccine information and public awareness messages were disseminated through mobile phones during the Corona pandemic. This is a revolutionary medium to deliver information to a large population quickly and efficiently.

### Question 40. Explain the most innovative use of ICT in government activities.

**Ans.** The most innovative and efficient use of ICT in government activities is to deliver citizen services to the people. Citizen services can be delivered directly to the citizen's doorstep and in some cases to the palm of their hand through mobile phones, radio, television and the internet. Through this, in developed countries, people can instantly complete tasks such as getting passports, paying income taxes, getting admission to universities, and paying to the government treasury from home.

### Question 41. Explain "Government Service at the Doorstep".

**Ans.** The service of delivering citizen services to the people is called Government Service at the Doorstep. Citizen services can be delivered directly to the citizen's doorstep through mobile phones, radio, television and the internet. Through this, in developed countries, people can instantly complete tasks such as getting passports, paying income taxes, getting admission to universities, and paying to the government treasury from home. Many citizen services are now easily available in our country. Notable among these are: e-settlement records, e-books, e-permits, publication of public examination results, e-healthcare, online income tax return preparation, money transfer, payment of utility bills, transportation, etc.



**Question 42. What is the role of ICT in delivering government services to people's doorsteps?**

**Ans.** Due to the advancement of information technology, it is now possible to deliver various government services to people's doorsteps. People can easily avail citizen services through mobile phones, internet, radio and television. As it is possible to apply for passports online, pay income tax, get admission to universities, and pay government fees in developed countries, government services are also being provided in Bangladesh through e-settlement records, e-permits, e-healthcare, mobile banking, etc. This has saved people time and money as well as made administrative activities more efficient.

**Question 43. What is e-settlement record and how is it helping people?**

**Ans.** Settlement record means the record or copy of the deed of the land. E-settlement record is a system of storing and supplying land records digitally. Previously, people had to go to different offices and were victims of corruption to collect land ownership or various information related to it. Currently, with the launch of e-service centers in 64 districts, people can easily collect land documents by applying online. This has reduced harassment as well as modernized the storage and management of land related information.

**Question 44. What is e-book and how are people of the country benefiting from the e-book platform?**

**Ans.** An e-book is a digital version of a book, which can be read through any computer or smartphone. The Government of Bangladesh has launched the website [www.ebook.gov.bd](http://www.ebook.gov.bd) as an e-book platform, where books of different classes are available online. This has reduced the additional cost of buying books for students and provided easy access to books for students in remote areas. This can play an important role especially during natural calamities or epidemics.

**► Healthcare**

► Textbook Page 15

**Question 45. Explain the success of information technology in the field of medical treatment.**

**Ans.** Information technology has revolutionized the field of medical treatment. Information technology is essential for diagnosis, treatment planning and patient information management. The contribution of information technology in areas such as medical imaging, genetic testing and telemedicine is immense. In addition, information technology plays a very important role in medical research, discovery of new drugs and development of treatment methods.

**Question 46. How has the use of information technology in diagnosis and treatment reduced reliance on predictive medicine?**

**Ans.** In the past, doctors used to treat patients based on predictions by looking at their symptoms, but now with the help of information technology, diagnosis has become easier and more accurate. Currently, the patient's body is analyzed through various modern machines, which helps doctors to make the right decision. As a result, treatment is possible based on scientific methods instead of estimation.

**Question 47. How can telemedicine revolutionize the world of medicine? Explain.**

**Ans.** The number of doctors in our country is still not high. Due to this shortage, it is often seen that experienced doctors are not available in small towns or villages. Taking health tips from a distance using telephone or mobile technology is called telemedicine. When there is no way to ask a doctor anything urgently, telemedicine can be used to get help from a doctor. This is how telemedicine can revolutionize the world of medicine.

**Question 48. How is telemedicine helping in healthcare?**

**Ans.** Telemedicine is a method of receiving medical services remotely through information technology and telecommunication systems. This is especially important in areas where it is difficult to find experienced doctors. In Bangladesh, people can get medical advice anytime by calling 16236, which has further expanded the scope of healthcare.

**► Research**

► Textbook Page 17

**Question 49. Why is it not possible to imagine research without information technology?**

**Ans.** In the modern age, no research can be imagined without information technology. A huge amount of information needs to be collected, analyzed and stored for research in all fields - science, engineering, humanities, social sciences. With the help of information technology, all these tasks can be done easily and quickly. Currently, various computer-based methods or algorithms are essential for analyzing a large amount of information in a short time.

**Question 50. How has information technology added a new dimension to research?**

**Ans.** Information technology has added a new dimension to the field of research because it has made information gathering, processing and analysis easier. Researchers can now connect with huge databases using computers, which improves the quality of their research. From literature to science, information technology has become essential for research in all fields.

**Question 51.** Explain how research work has become easier with the use of information and communication technology.

**Ans.** Information technology has added a whole new dimension to the world of research. Nowadays, people cannot even imagine research without computers and information technology, no matter what they are researching - literature, art, sociology, mathematics, technology or science. Currently all scientific activities are dependent on computers. Complex mathematical calculations, determining the nature of the structure of atoms and molecules, controlling the quality of medicines, designing spacecraft, planning and implementing the launch can be solved quickly by computers. Therefore, it can be said that information and communication technology has made research work easier.

**Question 52.** What is the role of information technology in industrial, literary and sociological research?

**Ans.** In industrial, literary and sociological research, information technology helps in storing, analyzing and presenting huge databases. Researchers can easily collect information using digital libraries and databases. In addition, various software is used for statistical analysis.

**Question 53.** What are the two main parts of research and what is the role of information technology in them?

**Ans.** Research is mainly divided into two parts: theoretical and practical. Computers are used to analyze information and verify theories in theoretical research. In practical research, experiments are conducted in laboratories using various instruments, where computers play an important role in collecting, storing and analyzing information.

**Question 54.** How do computers help researchers analyze information?

**Ans.** Researchers have to collect, process and analyze huge amounts of information, which is time consuming and difficult to do manually. Computers help to perform these tasks quickly and accurately. Researchers can use databases for data analysis, which makes research results more accurate and effective.

**Question 55.** What is the role of the laboratory in research and how is information technology used there?

**Ans.** Laboratories are essential for research, because here researchers conduct various experiments using new equipment. Information technology helps in operating laboratory equipment, storing experiments and analyzing results. In many cases, researchers can also manage laboratories using computers from remote locations.

**Question 56.** What is a microcontroller? Explain.

**Ans.** A microcontroller is a small computer built on a single integrated circuit. It has a processor, memory and input/output. Microcontrollers are used in various electronic devices, such as robots, automobiles, home automation systems and industrial control systems. It can be programmed to perform a specific task and generally consumes less power than other microprocessors.

**Question 57.** How are microcontrollers and FPGAs used in research?

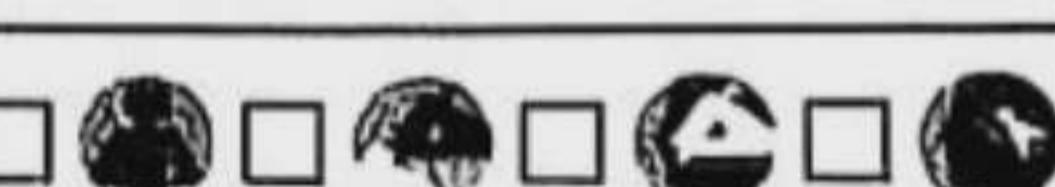
**Ans.** Microcontrollers and FPGAs (Field Programmable Gate Arrays) are small but powerful computer chips, which are used to build various automated instruments for research. By installing these inside the instrument, research work is made easier and automatic data collection and analysis is possible.



## Solutions to Textual Activities



Along with textual reference



**Activity 01** Design an attractive poster delineating the importance of information and communication technology in the context of Bangladesh.

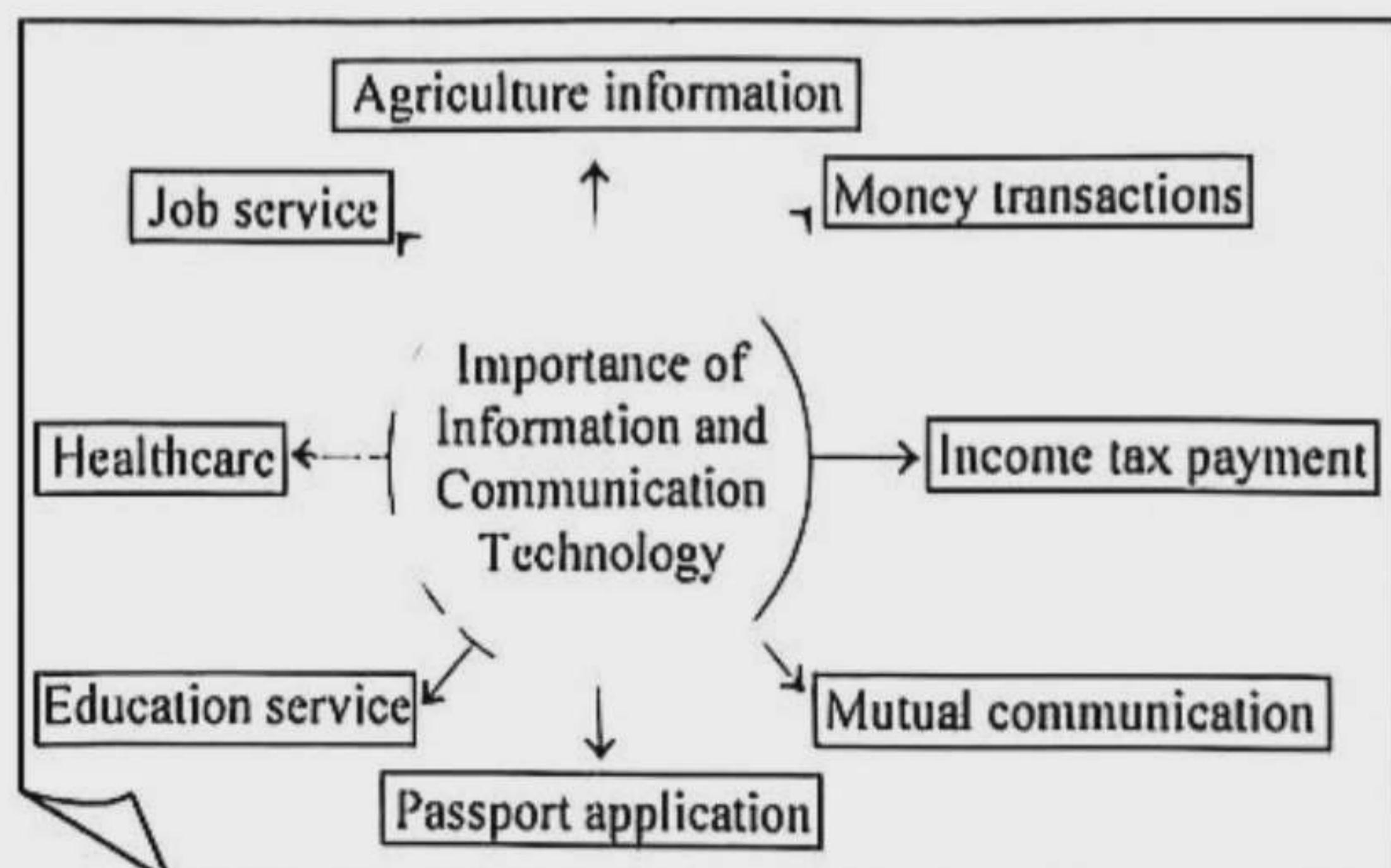
► Textbook Page 3

**Solution :**

**Type of activity :** Individual activity

**Purpose of activity :** To learn about the importance of information and communication technology.

**Solution :** An attractive poster delineating the importance of information and communication technology in the context of Bangladesh is presented below :



**Activity 02** Arrange a debate creating two teams, one for the printed version and another for the online version of newspaper. ► Textbook Page 9

**Solution :**

**Type of activity :** Group activity

**Purpose of activity :** To be able to differentiate between real news and online newspapers.

**Solution :** Let's form two teams with a few people. Let's name one team Team A and the other team Team B. Team A and Team B together organized a debate. Where Team A will speak in favor of real newspapers and Team B will speak in favor of online newspapers.

**Team A :**

1. In a country like ours, ICT facilities are not available everywhere. So real newspapers are necessary for us.
2. Even if there is no electricity connection, there is no problem with this newspaper; which is the case with online news.
3. It has nothing to do with internet or online. So the cost is less.
4. To get real news, you have to deal with a specific newspaper dealer. Apart from this, it is also available on the streets in exchange for money.

**Team B :**

1. Online newspaper means newspaper viewed on computer screen. It has no relation with paper.
2. News from home and abroad can be known from online newspapers. There are many online newspapers that publish instant news online in their newspapers. Online newspapers are mainly websites created for news.
3. This is an internet based newspaper. Anyone can open such a newspaper if they want.
4. You need a computer and internet connection to view online newspapers. In this case, you have to pay the internet bill. No separate money is required.

**Activity 03** How can Information and Communication Technology bring changes in business, and in which fields? Make a list and present it. ► Textbook Page 12

**Solution :**

**Type of activity :** Group activity

**Purpose of activity :** To learn about the changes in business due to the influence of information and communication technology.

**Solution :** A group of four or five people was formed. Their job is to prepare a list of the areas where information and communication technology will bring changes in business in the future. The list is given below :

1. Online-based business : Online-based business will expand greatly in the future. When technology reaches every home, people will become completely dependent on online to save time.
2. Employee salary accounting : New software will be developed to keep track of employee salaries.
3. Keeping track of sales and inventory : It will also expand in the field of keeping track of sales and inventory.
4. Share market : Information and communication technology will change the share business in the future.
5. Web pages: Businesses will create new web pages with product lists.
6. In employee management : Employee management will change.
7. Accounting : New software will be developed for business accounting.
8. Publicity and promotion : New technologies will be developed for publicity and promotion of products.
9. Communication system : New technologies will also be developed in the field of communication systems.

**Activity 04** Make a list of the machines being used in treatment and identify the ones that work with the support of information technology.

► Textbook Page 16

**Solution :**

**Type of activity :** Individual activity

**Purpose of activity :** To learn about various machines used in medical treatment.

**Solution :** A list of various machines used in medical treatment is given below :

**List of machines**

1. Computer
2. ECG machine
3. Scanner
4. Positron emission tomography machine
5. MRI machine
6. Robotics
7. Cryogen

**Machines that work with the help of information technology :**

1. Scanner
2. ECG machine
3. Positron emission tomography
4. Robotics
5. Cryogen

**Activity 15** What will you do with 10 nail size computers if those are given to you? Write in details.

► Textbook Page 18

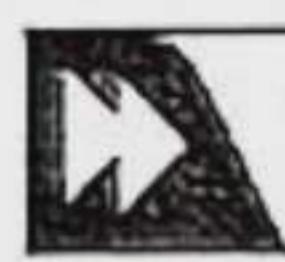
**Solution :**

Type of activity : Individual activity.

Purpose of activity : To know what can be done with nail-sized computers.

Solution : If 10 nail size computers are given to me, I will do ten different things. Such as :

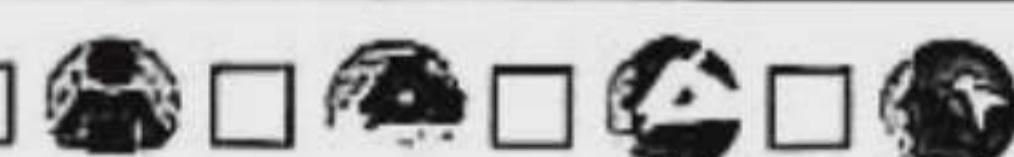
1. They could be used to do mathematical calculations.
2. They could be used in research work.
3. They could be used to make a machine more powerful by installing them inside it.
4. They could be used in the medical field.
5. They could be used for various tasks in the laboratory.
6. They could be used in mobile phones to work like computers.



## Descriptive Q/A



## Let's learn for School-based Assessment



**Question 1. What is EPOS? Explain one way and two way communication with example.**

[Dhaka Board '19]

**Ans.** (EPOS) Electronic Point of Sale is such a system by which all the information of sale can be preserved, an all time monitoring advantage is also there.

A one-way communication is where there is no facility and/or expectation of a reply or feedback. An advertisement or notice on a board is an example. Its advantages are that is simple, quick and cheap. However, it allows no clarification or opportunity to correct inaccuracies and this may cause frustration in the receiver. It is often associated with authoritarian leadership and downward channels of communication.

Two-way communication is more time-consuming because the receiver has the opportunity to feedback and to question what has been said or written. The receiver is invited to contribute to the process so this kind of communication is often associated with democratic forms of leadership. If the message is complex, two-way communication is far more effective, and probably accurate, than one-way communication.

**Question 2. Explain the role of information and communication technology in the field of research.**

[Jashore Board '19; Chattogram Board '19; Rajshahi; Jessore; Sylhet; Dinajpur; Chittagong Board '17; All Board '15]

**Ans.** Information and communication technology has not only brought about a radical change in the field of research but also added a new dimension to it. Nowadays, none can think of any research work on any field like literature, art, sociology, mathematics, technology, science, etc. without computer and information technology. Researchers have to collect, process, analyze and represent the information. It is a lengthy process. But ICT has made it possible to do all these works easily and quickly. Again, it plays a very important role in science and technology oriented research works. Using ICT, the researchers can be certain whether the research is on the right track by matching the information stored in enormous database and information bank. Also, machineries are used for experiments. Scientists use computers to innovate, run and use machines, and to process data collected by a machine. Therefore, ICT has made the whole work of the research easier and quicker.



## Super Suggestions



Super Suggestions with 100% preparatory questions selected by the Master Trainer Panel

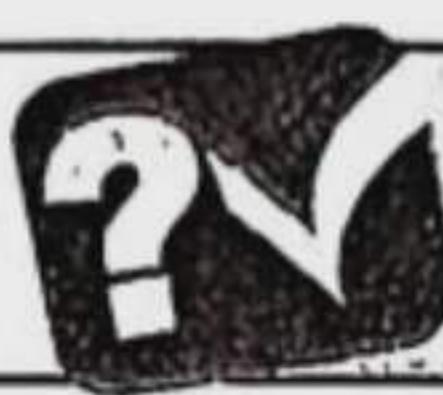
Dear learners, important multiple choice and short questions of this chapter selected by Master Trainer Panel for Half-Yearly and Annual Exams are presented below. Learn the answers to the mentioned questions well to ensure 100% preparation.

Question Pattern	7*	5*
MCQs with Answers	Learn each MCQs in this chapter thoroughly.	
Short Q/A	1, 4, 6, 11, 18, 24, 30, 39, 45	3, 8, 15, 22, 29, 34, 43, 54

**Exclusive Tips** ► Master the solutions to all the activities in this chapter along with exercise and other Q/A to develop the creative thinking and assess your talent.



## Assessment & Evaluation



A question bank presented in the form  
of a class test to assess the preparation

### Class Test

### Information & Communication Technology Class : Eight

Marks : 25

#### Multiple Choice Questions (Each question carries 1 mark)

$1 \times 15 = 15$

[N.B. : Answer all the questions. Each question carries one mark. Block fully, with a ball-point pen, the circle of the letter that stands for the correct/best answer in the "Answer Sheet" for Multiple Choice Question Type Examination.]

- |  |   |
|--|---|
| <p>1. What is the meaning of 'virtual'?<br/> <input type="radio"/> A Religious      <input type="radio"/> Neutral<br/> <input type="radio"/> C imaginary      <input type="radio"/> D Qualitiful</p> <p>2. Using Mobile phone—<br/>     i. speaking is possible<br/>     ii. exam result can be known<br/>     iii. exchange of information is possible<br/> <b>Which one is correct?</b><br/> <input type="radio"/> A i &amp; ii    <input type="radio"/> B i &amp; iii    <input type="radio"/> C ii &amp; iii    <input type="radio"/> D i, ii &amp; iii</p> <p>3. Which of the following invention has created facilities for doing official works from home?<br/> <input type="radio"/> A Computer      <input type="radio"/> B Internet<br/> <input type="radio"/> C Mobile phone      <input type="radio"/> D Optical fibre</p> <p>4. "Connectivity is productivity" — Who says?<br/> <input type="radio"/> A Dr Humayn Azad      <input type="radio"/> B Dr Iqbal Kadir<br/> <input type="radio"/> C Dr Humayn Ahmed      <input type="radio"/> D Dr Jafar Iqbal</p> <p>5. Which of the following play vital role to creating new job sectors?<br/> <input type="radio"/> A Internet      <input type="radio"/> B Radio<br/> <input type="radio"/> C Mobile      <input type="radio"/> D TV</p> <p>6. Who sang the song "Ami tomay Joto suniyechilem gaan."— during the War of Liberation in 1971?<br/> <input type="radio"/> A Pankaj Mullick      <input type="radio"/> B Subir Nondi<br/> <input type="radio"/> C Abdul Jabbar      <input type="radio"/> D Abdul Hadi</p> <p>7. How many kinds of system of communication are there?<br/> <input type="radio"/> A 2      <input type="radio"/> B 3      <input type="radio"/> C 4      <input type="radio"/> D 5</p> <p>8. Communication method can be divided into—<br/> <input type="radio"/> A 2      <input type="radio"/> B 3      <input type="radio"/> C 4      <input type="radio"/> D 5</p> <p>9. How often does &amp; satellite rotate around the earth and seems the earth fixed?<br/> <input type="radio"/> A 96 hours      <input type="radio"/> B 72 hours<br/> <input type="radio"/> C 48      <input type="radio"/> D 24 hours</p> | <p>10. During liberation war in 1971 which device is used to send a signal to nava commandos?<br/> <input type="radio"/> A Waki-talki      <input type="radio"/> B Television<br/> <input type="radio"/> C Telephone      <input type="radio"/> D Radio</p> <p>11. Which one of the following element can send news in whole rural areas?<br/> <input type="radio"/> A Book      <input type="radio"/> B Radio<br/> <input type="radio"/> C Motor car      <input type="radio"/> D Plain</p> <p>12. Which one of the following process is the easiest example for broadcasting?<br/> <input type="radio"/> A Radio      <input type="radio"/> B Computer<br/> <input type="radio"/> C E-mail      <input type="radio"/> D Mobile phone</p> <p>13. Take a good look of this following images and answer the question Nos. 13 &amp; 14.</p> |
|--|---|



13. What is the name of this machine?  
 A Mobile       B Laptop  
 C Notebook       D Computer
14. What kind of work is done by that device?  
 i. Calculation  
 ii. Money can receive  
 iii. Playing game  
**Which one of the following is correct?**  
 A i & ii     B ii & iii     C i & iii     D i, ii & iii
15. Through which the business dealing is improved more?  
 A E-purji       B Computer  
 C Bill Payment       D Intranet

#### Short-Answer Question (Each question carries 2 marks)

$2 \times 5 = 10$

Answer any 5 of the following questions :

- |   |   |
|---|---|
| <p>1. Explain how the development of technology has made sending money very easy.</p> <p>2. Explain how some traditional jobs have become obsolete due to the development of information technology.</p> <p>3. How does information technology increase productivity?</p> | <p>4. Describe the use of information technology in the workplace or office.</p> <p>5. How does 'Jobsite' work? Explain.</p> <p>6. What is outsourcing? Explain.</p> <p>7. Which sites are used as outsourcing platforms in Bangladesh?</p> <p>8. What is meant by one-way communication?</p> |
|---|---|

#### Answer Sheet ► Multiple Choice Questions

1	<input type="radio"/> C	2	<input type="radio"/> D	3	<input type="radio"/> B	4	<input type="radio"/> B	5	<input type="radio"/> A	6	<input type="radio"/> A	7	<input type="radio"/> A	8	<input type="radio"/> A
9	<input type="radio"/> D	10	<input type="radio"/> D	11	<input type="radio"/> B	12	<input type="radio"/> A	13	<input type="radio"/> D	14	<input type="radio"/> C	15	<input type="radio"/> D		

#### Answering Reference ► Short-Answer Questions

- 1 ► See this Chapter, Ques. 02 | 3 ► See this Chapter, Ques. 06 | 5 ► See this Chapter, Ques. 10 | 7 ► See this Chapter, Ques. 14  
 2 ► See this Chapter, Ques. 04 | 4 ► See this Chapter, Ques. 08 | 6 ► See this Chapter, Ques. 12 | 8 ► See this Chapter, Ques. 16