UNIT 17 INFORMATION AND COMMUNICATION TECHNOLOGY

Are conveying the can the needed will be video to.
Answer
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- Input Devices like Keyboard, etc.
- Output Devices like Monitor, etc.
- Storage Devices like Hard Disk, etc.
- Communication Devices like Modem, etc.
- Hardware like the devices of the computer, desktop, personal computer, etc.
- Software like the programs, applications, etc.

Q.1 What do you understand by Information and communication technology?
Answer
Information and communication technology is the combination of two technologies, information technology and communication technology. Information technology is the technology which is used to collect, store, edit and retrieve the information. Communication technology is the technology which is used to transfer the information from one place to another. This information is transferred using networks.

Q.2 What are the components of a network? Describe briefly each one?
Answer
Computer based information system (CBIS)

Input devices are the devices which are used to enter the data into the computer. Input devices are keyboard, mouse, joystick, etc.

Output devices
Output devices are used to take the information from the central processing unit of the computer. Output devices are monitor, printer, speakers, etc.

Storage devices
Storage devices are used to store the information after the data is processed by the central processing unit of the computer. Storage devices are hard disk, floppy disk, CD, etc.

Communication devices
Communication devices are used to transfer the information from one computer to another computer. Communication devices are modem, network interface card, etc.

Hardware
Hardware is the physical part of the computer. Hardware is the devices of the computer, desktop, personal computer, etc.

Software
Software is the programs, applications, etc. which are used to run the computer. Software is the programs, applications, etc.

Q.3 What do you understand by Computer?
Answer
Computer is an electronic device that is used to process the data. It is used to store the data. It is used to retrieve the data. It is used to edit the data. It is used to transfer the data from one place to another. It is used to print the data. It is used to display the data. It is used to perform the calculations. It is used to perform the logical operations. It is used to perform the mathematical operations.

Q.4 What are the functions of computer? Explain each one briefly?
Answer
Functions of computer
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Input
Input is the process of entering the data into the computer. The devices which are used to enter the data into the computer are called input devices. Keyboard, mouse, joystick, etc. are the input devices.

Processing
Processing is the process of converting the data into information. The data is processed by the central processing unit of the computer. The central processing unit of the computer is also called the brain of the computer. The central processing unit of the computer is also called the CPU. The central processing unit of the computer is also called the processor.

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Q.5 What do you mean by information processing cycle? Explain with the help of a diagram?
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Q.6 What do you mean by Information? Explain with the help of an example?
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Example
Suppose you have a list of numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. You want to find the sum of these numbers. You can do this by adding all the numbers one by one. But this is a very time consuming process. You can also do this by using a calculator. You can also do this by using a computer. You can also do this by using a spreadsheet. You can also do this by using a database. You can also do this by using a programming language.

Q.7 What do you mean by Data? Explain with the help of an example?
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Q.19 What do you mean by Data? Explain with the help of an example?
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Q.22 What do you mean by Data? Explain with the help of an example?
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Q.25 What do you mean by Data? Explain with the help of an example?
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Q.28 What do you mean by Data? Explain with the help of an example?
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Storage is the process of storing the information. The devices which are used to store the information are called storage devices. Hard disk, floppy disk, CD, etc. are the storage devices.

Communication
Communication is the process of transferring the information from one computer to another computer. The devices which are used to transfer the information from one computer to another computer are called communication devices. Modem, network interface card, etc. are the communication devices.

Q.33 What do you mean by Information? Explain with the help of an example?
Answer
Information
Information is the data that has been processed in such a way that it can be used by the user. Information is the data that has been processed in such a way that it can be used by the user. Information is the data that has been processed in such a way that it can be used by the user.

Example
Suppose you have a list of numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. You want to find the sum of these numbers. You can do this by adding all the numbers one by one. But this is a very time consuming process. You can also do this by using a calculator. You can also do this by using a computer. You can also do this by using a spreadsheet. You can also do this by using a database. You can also do this by using a programming language.

Q.34 What do you mean by Data? Explain with the help of an example?
Answer
Data
Data is the raw material for the computer. Data is the information that is stored in the computer. Data is the information that is processed by the computer. Data is the information that is displayed by the computer. Data is the information that is printed by the computer. Data is the information that is transferred by the computer.

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Q.35 What do you mean by Information processing cycle? Explain with the help of a diagram?
Answer
Information processing cycle
Information processing cycle is the process of converting the data into information. The data is processed by the central processing unit of the computer. The central processing unit of the computer is also called the brain of the computer. The central processing unit of the computer is also called the CPU. The central processing unit of the computer is also called the processor.

Input
Input is the process of entering the data into the computer. The devices which are used to enter the data into the computer are called input devices. Keyboard, mouse, joystick, etc. are the input devices.

Processing
Processing is the process of converting the data into information. The data is processed by the central processing unit of the computer. The central processing unit of the computer is also called the brain of the computer. The central processing unit of the computer is also called the CPU. The central processing unit of the computer is also called the processor.

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MULTIPLE CHOICE QUESTIONS

Choose the correct answer from the following choices:

i) In computer terminology information means:
a) any data
b) raw data
c) processed data
d) large data

ii) Which is the most suitable means of reliable continuous communication between an orbiting satellite and Earth?
a) microwaves
b) radio waves
c) sound waves
d) any light wave

iii) The basic operations performed by a computer are:
a) arithmetic operations
b) non-arithmetic operations
c) logical operations
d) both (a) and (c)

iv) The brain of any computer system is:
a) monitor
b) memory
c) CPU
d) control unit

v) Which of the following is not processing?
a) arranging
b) manipulating
c) calculating
d) gathering

vi) From which of the following you can get information almost about everything?
a) book
b) teacher
c) computer
d) internet

vii) What does the term e-mail stand for?
a) emergency mail
b) electronic mail
c) extra mail
d) external mail

Answers

i) c) processed data
ii) b) radio waves
iii) c) logical operations
iv) c) CPU
v) b) manipulating
vi) d) Internet
vii) b) electronic mail

CONCEPTUAL QUESTIONS

17.1 Why optical fibre is more useful tool for the communication process?

Answer

In optical fibre, the signals are transmitted in the form of light pulses with a speed of light. So very fast communication is possible through optical fibre which is not possible in copper wires.

17.2 Which is more reliable floppy disk or a hard disk?

Answer

Hard disk is more reliable than floppy. (For detail, please see the topic).

17.3 What is the difference between RAM and ROM memories?

Answer

RAM (Random access memory) is an integrated circuit which vanishes when computer is switched off.

ROM (Read only memory) is also an integrated circuit which does not vanish when computer is switched off.

OBJECTIVE TYPE QUESTIONS & ANSWERS

Q2. Give short Answers.

1.Define information technology.
Answer
The scientific method of storing, arranging information's for proper use and to communicate them to others is called the information technology.(IT).

2. What is telecommunication?
Answer
The method that is used to communicate information to far off places remotely is called Telecommunication.

3. Name some important means of telecommunication.
Answer
Some important means of telecommunication are:
- Telegraph + Telephone+ Mobile phone + Telex machine
- Fax machine + Television

4. Who transmitted the first signal through air?
Answer

Marconi has the distinction that he transmitted the first radio signal in the air.

5.What is the telegraph?
Answer
Telegraph was the early form of telecommunication through which a transmitter transmitted information into electric signals.

6. What is the working principle of a telephone?
Answer
The working principle of a telephone is similar to telegraph. Direct communication is achieved by the telephone.

7. What is the main function of a microphone?
Answer
The microphone is fitted in telephone transmitter. It changes vibrations produced by conversation into electric signal, which are transmitted along a wire to the receiver.

8. What is mobile phone?
Answer
Mobile Technology is used in a mobile phone. It is type of radio, which has two voice communication.

9. What is the nature of radio waves?
Answer

Radio waves are electromagnetic in nature.

10. How sound waves are sent to a far away distance?
Answer
The speed of sound in air is just 1/3464 per hour and it cannot go far away from its source. Therefore, it is converted into electromagnetic waves so that they can be sent to far off areas with the speed of light.

11. What is main difference between telephone and cellular phone?
Answer
In case of a telephone, sound is converted to electric signals that travel via wires to the other telephone where an electromagnet and a diaphragm convert these signals to sound. On the other hand, a cellular phone has a radio, which receives signals from a nearby transmitter. The signals are then sent to the nearby telephone network by two-way radio links. These radio waves are then converted to sound by the receiver in the receiving phone. Thus, a telephone communicates through electric signals and a cellular phone communicates through radio waves.

12. What is a videophone?
Answer
Videophone is the latest form of the telephone. It is also called photo phone. It is a telephone that transmits not only sound but also the picture of the caller. With the help of electronic telecommunication that the distant speakers feel acquainted with the physical existence of each other.

13. Write some characteristics of radio waves.
Answer
- Radio waves are electromagnetic waves.
- They travel with the speed of

14. What is telex machine?
Answer
Tele printer and exchange machine are the components through the telephone cables by electrical signals to the other telex machine where original print is received.

15. What is a fax machine?
Answer
Facsimile or fax machine is one unit from one place to the other through the fax machine using telephone line.

16. How fax machine works?
Answer
The fax machine first gets the reflection of the documents like Photostat machine, which changes it into electronic signal and then transmits it via telephone lines to the receiving fax machine where the receiving fax machine, it reproduces the figure in an image print on a paper again.



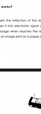
17. What is the function of tuning circuit in a radio?
Answer
Tuning circuit fitted in the radio selects the station waves of the choice and strengthens them.

18. What is television?
Answer
Picture and sound reach us via radio waves or cable or on television.

19. Why cable TV is preferred?
Answer
The TV signals received with the help of cable are slight. They are received by using optical fibres. That is why they give better results.

20. What is a computer?
Answer
Computer is an electronic machine, which after analysing and arranging the given information, present it in a way and interval of time.

21. Name three important parts of a computer. Answer
- Input devices
- Central processing unit
- Output devices



22. How colour pictures are obtained in colour TV set? Answer
There are three tubes is electron gun in the colour television set. One of them makes red, second makes green and the third makes the blue picture. These are three primary colours of light. All other colours are obtained by mixing these colours and the complete picture is framed on the screen.

23. Differentiate between input and output devices. Answer
- The devices used to feed information and algorithms into computer are called input devices.
- Devices, which enable a computer to transfer information to humans or other machines, are called output devices.

24. Name some input devices. Answer

Some input devices are keyboard, mouse, joystick, scanner, trackball and digital camera.

25. Name some output devices. Answer
Some output devices are monitor and printer.

26. What is super computer?
Answer
The most powerful and swift computer, which can send information in one thousand billionth part of a second, is called super computer. It contains many processors.

27. Give some main features of computer. Answer
Some main features of computer are:
- Fast working
- Accurate solution of the given information
- Large memory
- Capability of deriving results.

28. What is the main function of CPU in the computer?
Answer
It is a type of a brain of the computer, which performs the whole job. This part comprises of a control unit and a memory unit.

29. What is Internet?
Answer

The system through which we can know the global conditions within no time is called Internet.

30. Name such inventors, which have evolved the concept of portable work place for business.
Answer
Computers, fax machine, mobile phone networks and E-mail are such inventors, which have evolved the concept of portable work place for business.

31. What is the role of protocol in Internet?
Answer
Internet is actually a process using which people can contact each other through computer. This contact is made via telephone line or cable. All computers linked with Internet use uniform 'communication' process and same code. In the Internet terminology, it is called protocol whose name is TCP / IP (transmission control protocol / Internet protocol).

32. Which type of language is used in Internet?
Answer
The language is used in the Internet web is standardised well by all the computer linked with it and this language is called HTML (Hypertext Markup Language).

33. In Internet terminology, what is meant by protocol?
Answer
All computers linked with Internet use uniform communication process and same code. In the Internet terminology, it is called protocol.

34. Write some applications of Internet?
Answer
- Internet is an important and fastest medium of information.
- Students and teachers having contact with the Internet can get information.
- Businessmen can advertise their products via it.
- Doctors can exchange information about medical problems.
- Important messages are sent through E-mail.

35. What is the main function of the remote control system?
Answer
It is an instrument through which the television and some other electronic machines can be controlled from a large distance without any cable connection.

36. Name some information storage devices.
Answer
The following are some of the information storage devices:

i. Audio Video Tapes
ii. Compact disc (CDs)

iii. Laser discs
iv. Floppy disc
v. Hard disc

37. On what principle the storage devices work?
Answer
The storage devices can store a huge amount of information's in a very small space. Usually the storage devices work on the principle of magnetism whereas laser technology is used in CD's.

38. How sound is stored in magnetic tapes?
Answer
Microphone changes sound waves into electric pulses, which are made to an electric current. This current is then passed through a coil of wire is wound through the head of an electromagnet and is passed the wire.

39. How sound is reproduced in magnetic tapes?
Answer
To produce the sound with the tape it is moved in front of the play producer alternating current signal in the coil wrapped on the head. These signals are then amplified and sent to the loudspeakers, which reproduce the recorded sound.

40. Can the sound recorded on the tape be wiped out?
Answer

Yes. The sound recorded on the tape can be erased out by demagnetisation and the same tape can be used over and over again.

41. Differentiate between audio and videotape.
Answer
- In audiotape are the sound can be recorded.
- In videotape the pictures are recorded along with the sound.

42. What is CD?
Answer
Compact disc commonly known as CD is an information storage device. It is digital disc. Instead of wire grooves, a pit pattern is formed on it. This pattern consists of billions of off-of-varying length and spaces.

43. What is meant by 'write CD'?
Answer
The only area between two pits is called a flat. A laser beam can see the pattern.

44. Give some advantages of CD.
Answer
- Computer data is also stored in the CD's.
- Its storage capacity is many times greater than the floppy disc.
- CD is provided to store a first environmental information but not affect it.

- Movies can also be stored in CD's.

45. What's Floppy disc?
Answer
The floppy disc is only one disc. It's an extremely popular storage medium, particularly when used in conjunction with microcomputer system such as personal computer.



46. How we can protect a floppy disc from damage?
Answer
It is essential to save floppy disc from heat, magnet and water otherwise the stored data can't be recognised.

47. Write some important factors of hard disc.
Answer
- Hard disc is installed inside the system unit.
- It is made of Aluminium.
- It is not flexible.
- It has higher speed and larger capacity.
- It is also called the storage disc.

48. Differentiate between floppy disc and hard disc.

Answer

Difference between Hard disc and Floppy disc:

Hard Disc	Floppy Disc
1. The most important difference is that the storage medium in the aluminium plates coated with a ferromagnetic material.	1. In case of a floppy disc, it's a flexible plastic coated with a ferromagnetic compound that stores data.
2. It has several aluminium plates.	2. It has only one plastic surface for storage.
3. Its information access rate is faster.	3. The storage medium is flexible.
4. It is covered by a thin layer.	4. It is also covered by a metal.
5. It is installed inside the system unit.	5. It is removable storage device.

49. Differentiate between hard disc and floppy disc on the basis of CD. Answer
- If the CD is made of steel, then it is called hard disc.
- If the CD is made of soft elastic material then it is called floppy disc.

50. Why compact disc and hard disc are housed in jacket? Answer
Compact disc and hard disc are housed in a jacket to save them from external pollution.

Objective Type Questions

Q. Each question is followed by four options encircle the correct option.

1) Who transmitted the first radio signal in the air?
a. Addison b. Graham Bell
c. Marconi d. Lavalier

2) Which of the following is the earlier device for telecommunication?
a. Telegraph b. Internet
c. Telephone d. Fax machine

3) Which of the following converts electric signals to sound?
a. Microphone b. Electromagnet + diaphragm
c. Telegraph d. Fax Machine

4) What is the speed of sound in air?
a. 8000 m/sec b. 3000 km/hr
c. 1246 km/hr d. None of these

5) What happens when electromagnetic waves carrying radio transmission strike the aerial of a radio?
a. Sound waves are produced
b. A weak alternating current with a different frequency is generated
c. A weak alternating current with the same frequency as that of the waves is generated
d. None of these

6) Which of the following circuits sets the frequency of our choice in a radio?
a. Tuning circuit b. Amplifying circuit
c. Integrated circuit. d. None of these

7) Which of the following are the primary colours of light?
a. Red b. Yellow
c. Green d. Blue
e. All except 'b'

8) A computer works on a set of instructions called a:
a. Memory b. Programme
c. Central Processing Unit d. None of these

9) Which of the following (are) input devices?
a. Mouse b. Printer
c. Joy stick

10) The number of people using the facility of internet worldwide is approximately:
a. One million b. 10 million
c. 50 million d. 200 million

11) The language of the internet is:
a. HTML b. C++
c. FORTRAN d. None of these

12) Which oxide is coated on tenic tapes?
a. Iron oxide b. Chromium oxide
c. Nickel oxide d. Aluminium oxide

13) Floppy disks, hard disks, compact disks and RAM are all devices.
a. Input b. Output
c. Processing d. Storage devices

14) A compact disk is formed of:
a. Many grooves b. Pits
c. Pixels d. Both '13' and 'c'

15) How much is the capacity of compact disk?
a. 1.4 MB b. 128 MB
c. 650 MB d. 20 GB

16) Which of the following is different from others?
a. Floppy disc b. Compact disc
c. Audio cassette d. Video cassette

17) Identify the one that is different from others.
a. Monitor b. Keyboard
c. Printer d. Speaker

18) Which of the following has the highest capacity to store data?
a. Compact disk b. Floppy disc
c. Hard disc d. Videotape

19) The process of drawing pictures on the computer screen using mouse or keyboard is called:
a. Graphic designing b. Word processing
c. Data managing d. None of these

20) Which type of technology is used in mobile phone?

a. Laser b. Radio
c. Modem d. None

21) The working principle of a telephone is similar to:
a. Radio b. Internet
c. Telex machine d. Telegraph

22) Important documents can be sent from one place to the other through using telephone line?
a. Telex b. Fax machine
c. Telegraph d. None

23) Radio is source of telecommunication in which message is transmitted by:
a. Mechanical waves b. Electromagnetic
c. Electrical pulses d. waves
e. None

24) Which one is mean of telecommunication?
a. Telegraph b. Television
c. Telephone d. All of these

25) Which one is the earliest form of telecommunication?
a. Telegraph b. Television
c. Telephone d. None of these

26) Which one is the part of a computer?
a. Input devices b. Output devices
c. CPU d. All of these

27) The different functions of the are controlled by a special instrument called
a. Plinter b. Monitor
c. keyboard d. None of these

28) What are the methods to feed information into the computer?
a. Floppy disks b. CD
c. Both a) & b) d. None

29) Which one is brain of computer?
a. Keyboard b. Monitor
c. CPU d. None

30) Which one is not an input device?
a. Mouse b. Joystick

c. Scanner d. Monitor

31) Which one is not a storage device?
a. Monitor b. CD's
c. Hard disk d. Floppy discs

32) If the CD is made of soft elastic material then it is called?
a. Monitor b. CD's
c. Hard disk d. Floppy discs

33) In the internet terminology, it is called protocol whose name is:
a. PTCL b. TCP
c. IT d. TCP/IP

34) Information technology is changing:
a. Slowly b. Silently
c. Speedily d. Shyishy

35) What is fitted in the telephone hand set?
a. Magnet b. Micrometer
c. Microphone d. Transmitter

36) Latest form of the telephone is:
a. Video phone b. Mobile phone
c. Microphone d. None

37) EM waves are sent to a TV set via special wire called:
a. Television cable b. Cable
c. Picture cable d. None

38) All the work is done by the computer in the light of those instructions which are called a:
a. Monitor b. Programme
c. CPU d. Mouse

39) What is the system in which we can know the global conditions within no time?
a. Internet b. Floppy
c. Television d. Mobile phone

40) Which one is primary colour in the formation of TV picture?
a. Red b. Green
c. Blue d. All of these

41) Radio waves are
a. X-rays b. Electromagnetic
c. Transverse d. None

42) A computer has made our work:
a. Very fast b. Very accurate
c. Large memory d. All of these

43) All computers linked with internet use uniform communication process and some code-which in the internet terminology is called.
a. Protocol b. E-mail
c. Programme d. SMS

44) Which type of radiations is used to operate the remote control system?
a. Ultrasonic b. Infrared
c. Alpha d. Gamma

45) The storage capacity of floppy disc is about:
a. 1.44 MB b. 14.4 MB
c. 144 MB d. 0.14 MB

46) Floppy disc is made of flexible plastic, which is coated with..... compound.
a. Diamagnetic b. Paramagnetic
c. Ferromagnetic d. Real and inverted

47) If the CD is made of metal, then it is called:
a. Hard disc b. Laser disc
c. Floppy disc d. None of these

48) The shiny area between two pits is called a:
a. Pattern b. Laser
c. Plot d. Hole

49) Which is an important and fastest medium of information.
a. Mobile b. Radio
c. Internet d. All of these

50) The devices used to feed information and algorithms into computer are called:
a. Input devices b. Output devices
c. Protocol d. Hardware

51) Which circuit fitted in the radio selects the station waves of the choice and strengthens them?
a. Internal b. External
c. Tuning d. None

52) It is type of radio, which has _____ ways communication.
a. Two b. Two or more
c. Three d. None

53) Hard disc is made of:
a. Carbon b. Silver
c. Semiconductor d. Aluminium

54) By the help of machine, we draw money at any time we want.
a. Fax b. ATM
c. Telex d. None

55) CD is_____ disc:
a. Laser b. Analogue
c. Digital d. None

56) The signal received by the decoder from a flat on a CD is:
a. 1 b. 0
c. -2 d. 8

57) The means of transmission of information to far off places is called:
a. Telecommunication b. Radio
c. IT d. None

58) The device with the help of which we can control an appliance from a distance without any wire is called a:
a. Radio b. Internet
c. Remote control d. Telegraph

59) In telegraph, the messages or informations are converted into by a transmitter.
a. Electrical pulses b. Digital signal
c. Analogue signal d. All of these

60) Which includes all the operations that can be carried out on a document.
a. Remote control b. Fax
c. Video Phone d. Word processing

ANSWERS

No.	Ans.	No.	Ans.	No.	Ans.	No.	Ans.
1	c	2	a	3	b	4	c
5	a	6	a	7	e	8	b
9	a, c	10	a	11	a	12	a
13	d	14	d	15	d	16	b
17	b	18	c	19	a	20	b
21	d	22	b	23	b	24	d
25	a	26	a	27	c	28	c
29	c	30	b	31	a	32	d
33	d	34	c	35	c	36	a
37	a	38	c	39	b	40	d
41	b	42	d	43	a	44	b
45	a	46	d	47	c	48	b
49	d	50	a	51	c	52	a
53	d	54	b	55	c	56	a
57	a	58	c	59	a	60	d