J/Chundikuli Girls' College
1st Term Examination
Information & Communication Technology

Grade: 10 **3 hours**

PART I

Instruction

1. Answer all questions
2. In each of the questions 1 to 40, pick one of the alternatives from 1,2,3,4 which is correct or most appropriate and mark your response on the answer sheet with a cross(X)

1) Which of the following is used as a data in fingerprint machine?
   1. Processing
   2. Time of departure
   3. Fingerprint
   4. Time of arrival
2) Which of the following is a service that is provided from government to employee(G2E)
   1. Bank information
   2. Gazettes and circulars
   3. Diplomatic visa information
   4. Business and business registration information
3) LMS stand for
   1. Learning Material Shop
   2. Learn Music System
   3. Learning Management System
   4. Learning Material System
4) Which one is **not** an attribute of information?
   1. Accuracy 2. Size 3. Relevance 4. Timeliness
5) Which is not a service of telemedicine
   1. Remote clinical care
   2. E-channeling
   3. Home health medicine
   4. Medical Teletraining
6) What is the device used to find the location of animals in a large farm
   1. CCTV 2. RFID 3. ETU 4. EEG
7) Who invented the Automatic Sequence Control Calculator?
   1. Gottfried Wilhelm
   2. Joseph Jacquard
   3. Charles Babbage
   4. Howard Aiken
8) The world's first ever mathematical machine is called,
   1. Abacus
   2. Adding machine
   3. Punch card
   4. Analytical Engine
9) The components of Central Processing Unit(CPU) are
   1. Control Unit, ALU, Input Unit.
   2. Output Unit, ALU, Memory Registers.
   3. Control Unit, ALU, Memory Registers.
   4. Control Unit, Memory Registers, Output Unit.
10) Hardware technology used in third generation is
   1. Vacuum tubes
   2. Transistors
   3. Integrated circuits
   4. Micro Processor
11) What was the feature that increased over evolution of computers?
   1. Size
   2. Electricity consumption
   3. Processing speed
   4. Heat generation

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12) Which one is the correct answer regarding classification computers on technology.
1. Micro computers
2. Mini computers
3. Analog Computers
4. Super computer

13) Which of the following group has only **input** devices?
1. Printer, Mouse, Keyboard
2. light pen, Mouse, Keyboard
3. Keyboard, Mouse, Monitor
4. Printer, Speaker, Multimedia Projector

14) What is the device which can be used to both input and output data
1. Speaker
2. Microphone
3. Touch screen
4. Mouse

15) Which of the following devices is used to check the accuracy of cheque?
1. OCR
2. MICR
3. OMR
4. ATM

16) Which of the following is an example of half duplex mode?
1. Getting print outs
2. Browsing internet
3. Telephone conversation
4. Watching TV

17) An example for non-impact printer is,
1. Line printer
2. Thermal printer
3. Daisy wheel printer
4. Dot Matrix Printer

18) Which of the following is used in ATM to print the receipts?
1. Thermal printer
2. Laser printer
3. Inkjet printer
4. Dot matrix printer

19) An example for volatile memory is.
1. Random Access Memory
2. Compact Disk
3. Read only Memory
4. Hard Disk

20) Low capacity of storage device is,
1. Hard disk
2. Compact disk
3. Digital versatile disk
4. Floppy disk

21) The Port used to connect a keyboard with the computer is;
1. PS/2 Port
2. HDMI Port
3. RJ/45 Port
4. VGA Port

22) What type of media is used in modern telephone networks?
1. Fiber optic
2. Micro wave
3. Twisted pair
4. Infra-red

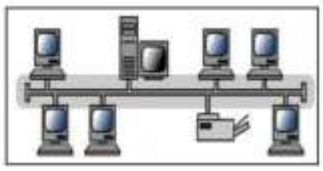
23) Which of the following data transmission medium is used in Bluetooth?
1. Unshielded twisted pair
2. Coaxial Cable
3. Microwaves
4. Radio waves

24) Which of the following performs modulation and demodulation in data communication
1. Network Interface Card
2. Satellite
3. Switch
4. MODEM

25) Select the best name for a network which is established in an office.
1. LAN
2. MAN
3. WAN
4. None of above

26) What is the best network topology for LAN?
1. Bus
2. Star
3. Ring
4. All above

27) What is the network topology shown in the figure?
1. Bus
2. Star
3. Ring
4. Tree



28) The smallest unit of information is
1. a byte
2. a nibble
3. a bit
4. a block

29) Speed of Central Processing Unit (clock speed) is measured by
1. MB
2. GB
3. Kps
4. GHz

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தமிழ் & English Medium

தரம் 01 முதல் A/L

வரையான வகுப்புக்கள்

ZOOM ஊடாக நடைபெறுகின்றன



தரம் 01 முதல் 05 வரை

- தமிழ்
- கணிதம்
- ஆங்கிலம்
- சுற்றாடல்
- நுண்ணறிவு
- வினாத்தாள் வகுப்பு
- பேச்சு ஆங்கிலம்
- பேச்சு சிங்களம்



தரம் 06 முதல் O/L வரை

- தமிழ்
- கணிதம்
- ஆங்கிலம்
- விஞ்ஞானம்
- வரலாறு
- வர்த்தகம்
- ICT
- English Literature
- தமிழ் இலக்கியநயம்
- சுகாதாரம்
- புவியியல்
- குடியியல்

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30) Which of the following is approximately equivalent to one Terabyte (TB)?
1. $1x10^6$ MB 2. $1x10^6$ GB 3. $1x10^6$ KB 4. $1x10^6$ bytes

31) Which of the following correctly shows the ascending order of the devices based on their access speed?
1. CD, Hard disk, RAM, Cache
2. RAM, Cache, CD, Hard disk
3. Cache, RAM, Hard disk, CD
4. Hard disk, Cache, RAM, CD

32) Which of the following numbers is an octal number?
1. A675 2. 563 3. 831 4. 982

33) What is the decimal equivalent to binary 110101_2
1. 48_{10} 2. 50_{10} 3. 53_{10} 4. 52_{10}

34) Which of the following numbers is equivalent to decimal 120_{10}
1. 1111000_2 2. 160_8 3. 76_{16} 4. 101111_2

35) Which of the following numbers has minimum value?
1. 101101_2 2. 36_8 3. $2F_{16}$ 4. 48_{10}

36) What is the Least Significant Bit (LSB) and Most Significant Bit (MSB) respectively of the number 001.10001
1. 0, 0 2. 0, 1 3. 1, 0 4. 1, 1

37) Which of the following numbers is equivalent of Hexadecimal $7A_{16}$ is;
1. 1101010_2 2. 172_8 3. 124_{10} 4. 74_{10}

38) Which answer represents the ascending order of these four numbers 100011_2, 54_{10}, 76_8, $3F_{16}$?
1. $3F_{16}$, 76_8, 100011_2, 54_{10}
2. 100011_2, 76_8, $3F_{16}$, 54_{10}
3. 54_{10}, 76_8, 100011_2, $3F_{16}$
4. 100011_2, 54_{10}, 76_8, $3F_{16}$

39) What is the largest of the following BCD (Binary Coded Decimal) values?
1. 01010100 2. 10010101 3. 10010001 4. 00110100

40) If character 'c' is represented in the ASCII code system as 1100011, which of the following answers represents character 'f'?
1. 1110100 2. 1101011 3. 1101011 4. 1100110

Part II

- **Answer five questions only, including the first question and four others.**
- **First questions carries 20 marks and each of other questions carry 10 marks**

1)
1. You bought things at supermarket by using credit/ debit card. Write down the input, Process, and output for the above activities
2. Give two examples of the use of ICT in transport?
3. What is telemedicine?
4. Write two characteristics of computer?
5. Give two examples for optical storage device?
6. Give two examples for Analog computers?
7. Write the most significant digits (MSD) and the least significant digits (LSD) of the number given below?
   i) 054.2300 ii) 0.07630
8. Different storage devices have different capacities. Set the storage devices below in order of the increasing capacity. (It is sufficient to mention only the relevant character.)
   (a) Flash Memory
   (b) Cache Memory
   (c) Magnetic Tape
   (d) Register Memory

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9. The following functions labeled A – E that related with computer ports. Write suitable ports name from given list below.(write the answer in this format – label letter – Relevant port name

(USB, RJ45, Audio port, PS2, VGA)

A	Access the Internet through a local area network	
B	Connect the digital camera with computer	
C	Using multimedia Projector for teaching	
D	Listening music using head pone	
E	Connect old version mouse with computer	

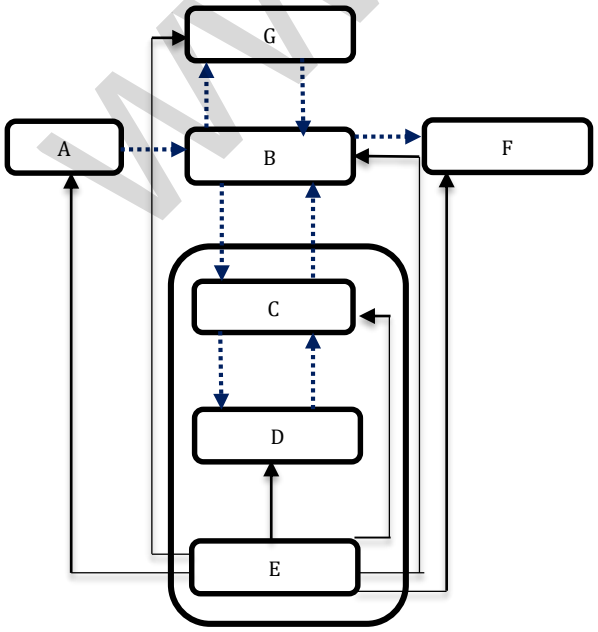
10. Write down two services offered by e-government to other governments.

(10*2=20marks)

2)

1. Categorize and write down the following printers as impact printers and non-impact printers.
   i) Line Printer
   ii) Inkjet Printer
   iii) Thermal Printer
   iv) Dot Matrix Printer
2. Give two non-volatile memories?
3. Secondary storage devices can be classified under three main categories name two of them and write one example for each?
4. Write down the equipment's name for following statements.
   i) Monitoring the heart beat
   ii) Recording the activities of brain
   iii) Displaying the movement of the heart on a monitor
   iv) Showing the 3D images of different parts of the body
5. Write two advantages of online shopping? (5*2=10marks)

3) Answer the questions using the computer block diagram functionality of the computer is described below Select the words in brackets that correspond to the numbers in the blanks.



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ICT

Grade 6 to O/L

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BY : A.Nivethika

Grade 6

Wed:6PM

Fri:6PM

Grade 7

Fri:7PM

Sun:7PM

Grade 8

Wed:8PM

Sat:8PM

Grade 9

Mon:9PM

Thur:9PM

Grade 10

Mon:7PM

Thur:7PM

Sun:8PM

Grade 11

Tue:8PM

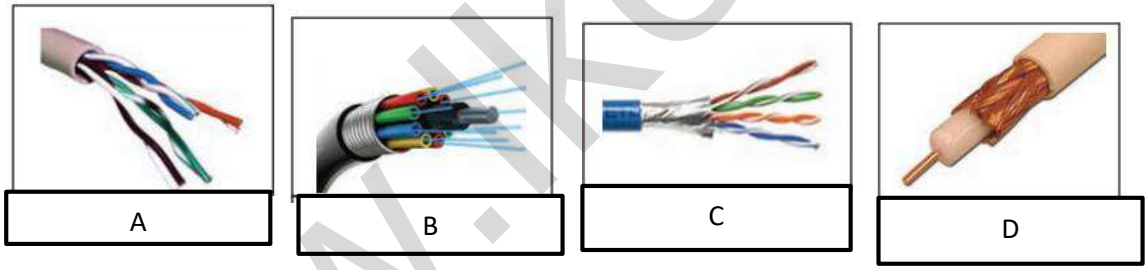
Wed:7PM

Fri:8PM

1. Data and instructions input by the ……(1)…….. are sent to ……(2)…… first.
   That data is sent to the ……(3)…….. for the processing. It consists of three parts called ……(4)……., ……(5)…… and memory registers.
   Data and instructions processed by the ……(3)……., are sent to the ……(2)…….. as information.
   In here information is output by the ……(6)……
   Also……(7)…….. Can be used to store information.
   ……(5)…… communicates, handles and controls the hardware connected to the computer.

   [Control Unit, Primary Memory, Input Devices, Central Processing Unit, Output Devices Secondary Memory, Arithmetic and Logical Unit] [7marks]
2. Give one examples for A, G, F? [3marks]

4) Following some of the media that are used for data transmission.



1. Write down the diagram name with the corresponding label.
2. Write appropriate subject heading label for the following pictures' label
   Subject heading

   Subject heading

   1) It is the faster media of data transmission.
   2) This is a cheap data transmission media.
   3) The data transmission is carried out by while reflecting light.
   4) Not suitable for transfer data above 100m.
   5) The outer cable which is like a braided copper net produces electromagnetic field around the central cable.
   6) This is better quality and secure data transmission medium.
3. Write down two special features that can been seen in microwave transmission.
4. Give an example for infrared transmission. [4, 3, 2, 1]

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5)

1. Draw a diagram of a star network, connecting a switch, three computers, and a printer. (Use the labels Switch, Computer 1, Computer 2, Computer 3, and Printer)
2. If hub was replaced with the switch for the above network, write down two disadvantages of the computer network.
3. Write down two network devices?
4. Write down two benefits of networking?
5. Write down the three types of computer network.

[3, 2, 2, 2, 1]

6)

1. If 72 is the decimal ASCII value of letter H, then create the ASCII code for the word "NO"
2. Find the binary value and the hexa-decimal value of number 742_8. (Write down with the steps.)
3. Covert the following hexadecimal numbers to binary.
   i) A45 ii) B5C9
4. Complete the following table with information about the coding system used to represent the data on the computer (copy the table to the answer sheet and complete it)

Coding system	The number of bits used	Number of characters to be represented
BCD		
ASCII		
EBCDIC		
Unicode		

[2, 2, 2, 4]

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