

INFORMATION TECHNOLOGY SRI LANKA

First Term Examination, 2020

Grade 10

Information & Communication Technology I, II

Three hours

Information & Communication Technology I

Note:

- I. This paper consists of **35 Multiple Choice Questions**.
- II. Answer **all** questions.
- III. Pick one of the alternatives (1), (2), (3), (4) which is **correct** or most **appropriate**.

1. The CPU of a computer consist of which of the followings?
(1) ALU, CU, Display
(2) ALU, CU, RAM
(3) ALU, CU, Register
(4) RAM, ROM, Hard Disk
2. Which of the following octal numbers is equivalent to decimal 79?
(1) 117_8
(2) 1017_8
(3) 711_8
(4) 107_8
3. Which of the following number systems are used in computers to store date?
(1) Decimal
(2) Binary
(3) Octal
(4) Hexadecimal
4. Which of the following decimal numbers is equivalent to binary number 110111_2 ?
(1) 55
(2) 63
(3) 110
(4) 118
5. Which of the following files given in Table 1 could be stored in a Flash Drive having total capacity of 4GB so that a least amount of unused space is left on the device?

Table 1

File Name	Size
A.doc	300MB
B.jpg	740MB
C.mp4	3GB

- (1) A.doc and B.jpg only
- (2) B.jpg and C.mp4 only
- (3) C.mp4 only
- (4) All of them

6. A device that can be used to input data and output information
(1) Touch Screen (2) Light Pen (3) Microphone (4) Speaker
7. Which is an information?
(1) A timetable (2) A number (3) A word (4) A name
8. 1MB is equivalent to
(1) 1024B (2) 1024KB (3) 1000KB (4) 1000B
9. What is called as main memory of computers?
(1) ROM (2) Hard Disk (3) CD (4) RAM
10. Which of the following communication media uses light reflection to transmit data?
(1) Unshielded Twisted Pair (3) Optical Fiber
(2) Shielded Twisted Pair (4) Coaxial Cable
11. Bluetooth is a
(1) Wide Area Network (3) Personal Area Network
(2) Local Area Network (4) None of the above
12. Which of the followings is used in computer-based planning of architectural design?
(1) Projector (2) Plotter (3) Light Pen (4) Joysticks
13. Which is not a quality of an information?
(1) Relevancy (2) Accuracy (3) Completeness (4) Costliness
14. Personal Computers are _____ Computers.
(1) First Generation (3) Third Generation
(2) Second Generation (4) Fourth Generation
15. CPU stands for
(1) Central Processing Unit (3) Command Processing Unit
(2) Control Program Unit (4) Control Processing Unit
16. What is the largest value that can be in a number system where the base is n?
(1) n (2) n-1 (3) n+1 (4) n*1
17. Which is not a pointing device?
(1) Mouse (2) Light Pen (3) Keyboard (4) Joysticks
18. What are the basic functions of any Information System?
(1) Input, Process, Output (3) Input, Storage, Output
(2) Data, Process, Information (4) Input, Output, Display
19. Which of the followings is a portable memory device?
(1) RAM (2) USB Drive (3) ROM (4) Hard Disk

20. What is the world first adding machine?

- (1) Abacus
- (2) MARK I

- (3) Punch Card
- (4) Analytical Engine

21. HDMI port is used connect _____ to computer.

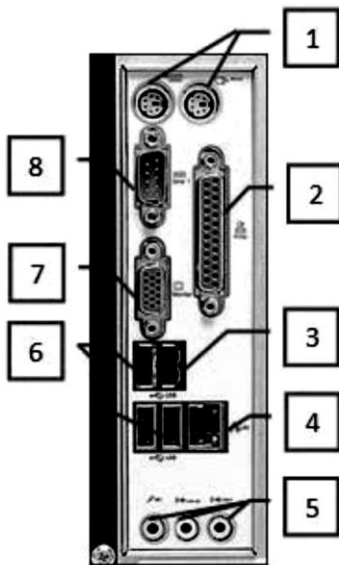
- (1) Projector
- (2) Keyboard
- (3) Mouse
- (4) Monitor

22. Windows Operating System is a product of _____ company

- (1) Microsoft
- (2) Apple
- (3) Google
- (4) Facebook

- Use the image 2 to answer 30th, 31st and 32nd questions

Image 2



23. Image 2 shows,

- (1) Ports of a computer
- (2) Mother board of a computer
- (3) Backside of a computer
- (4) CPU of a computer

24. Which port is most appropriate to connect USB drivers to the computer?

- (1) 1
- (2) 2
- (3) 5
- (4) 6

25. Port 1 is used to connect Keyboard and mouse to the computer system. Identify the name of the port.

- (1) USB port
- (2) PS/2 port
- (3) HDMI port
- (4) VGA port

26. What is the main storage device of a computer?

- (1) RAM
- (2) Floppy Disk
- (3) DVD
- (4) Hard Disk

27. Which of followings is not a characteristic of a computer?

- (1) Speed
- (2) Accuracy
- (3) Intelligence
- (4) Efficiency

28. 8 bits are equivalent to

- (1) 1byte (2) 1nibble (3) 1Kilobyte (4) 1Megabyte

29. The physical structure of the following computer network is called

- (1) Star Topology
(2) Ring Topology
(3) Tree Topology
(4) Bus Topology



30. The biggest value of the following is,

- (1) 526 (2) 1101101₂ (3) 554₈ (4) 1FF

31. _____ is a network security

- (1) Modem (2) Router (3) Wi-Fi (4) Firewall

32. Network of computer networks is known as

- (1) Internet (2) Topology (3) Web (4) Website

33. Which of the followings can be easily understood by computer system?

- (1) 10001₂ (2) 456₈ (3) 123₁₀ (4) 123₁₆

34. Number of bits used in Unicode code system,

- (1) 4 (2) 7 (3) 16 (4) 8

35. Which of the followings is no longer used as a memory device?

- (1) USB drive (2) Hard Disk (3) Floppy Disk (4) SD Card

You can send us a PDF copy of your answer to be corrected or contact us for the answer script

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Information & Communication Technology II

Note:

- I. This paper consists of **three (3) Questions**.
- II. Answer **all** questions.
- III. Each question carries **10 marks**.

1. Question 01

- (i) ICT is used in many industries and professional areas. Explain 3 instances how ICT is used in the field of education.
- (ii) List down some demerits of using computers while studying.
- (iii) Computer is an Information System. Explain this statement.
- (iv) Explain Client-Server computer architecture.

2. Question 02

- (i) Briefly explain the followings
 - (a) Simplex Mode
 - (b) Half-duplex Mode
 - (c) Full Duplex Mode
- (ii) Connection among computers to transmit data and information is called as Computer Network.
 - (a) Mention the three types of computer networks
 - (b) Write one disadvantage of computer networks

3. Question 03

Computers consists of software and hardware.

- (i) What are the differences between software and hardware?
- (ii) Write four main components of computer system
- (iii) Explain the interactions among those components of computer system

or

Convert 100 to Binary, Octal and Hexadecimal number systems. Clearly mentions the steps