

Sri Jayawardhanapura Zone

Grade 10

First Term Test – 2019 March

Information & Communication Technology – I

Time : 1 Hour

Note:

(i) Answer all the questions.

(ii) In each of the questions 1 to 40, pick one of the alternatives 1, 2, 3 and 4 which you consider as correct or most appropriate.

1. Kamal went to a grocery and bought one of the cheapest packet of biscuits. How could the underlined words be identified respectively?

- | | |
|-----------------|--------------------------|
| (1) Data | (3) Data and Information |
| (2) Information | (4) Information and Data |

2. What is/ are the correct statement/statements about data and information?

- (a) Timeliness and completeness are two features of information
- (b) There is no meaning when it data are taken alone
- (c) Data depends on information

- (1) a and b
- (2) a and c
- (3) band c
- (4) all above

3. Which of the following describes a use of ICT in business field?

- (1) Searching the latest strategic information through the internet
- (2) Buying prepaid internet service using on line shopping
- (3) Using a credit card for buying educational software.
- (4) Connecting to a LMS for following a course in business

4. Finger print reader can be considered as a system because it...

- (a) is an electronic device.
- (b) consists the features of input, process, and output.
- (c) has an aim.
- (d) consists of different components.

Which of the above is /are correct?

- | | |
|------------------|-----------------------|
| (1) a only. | (3) a , b and c only. |
| (2) b and c only | (4) b ,c and d only |

5. This computer is with high calculating power, large in size, expensive and rare. This computer is used in scientific fields and used to solve complex arithmetic operations.

This computer is a

- | | |
|------------------------|--------------------|
| (1) Mainframe computer | (3) Super computer |
| (2) Mini computer | (4) Micro computer |

6. The first electronic digital computer in the world was “ENIAC”.What was the main technology used in that computer?

- (1) Vacuum tube
 - (2) Transistors
 - (3) Integrated Circuits -(IC)
 - (4) Micro chips
7. What was the feature that increased over evolution of computers?
- (1) Size
 - (2) Electricity consumption
 - (3) Processing speed
 - (4) Heat generation
8. Which component of the computer is used to solve arithmetic and logical operations?
- (1) Output devices
 - (2) Central Processing Unit
 - (3) Input devices
 - (4) Secondary memory
9. The components of Central Processing Unit(c p u) are
- (1) Control Unit, ALU, Input unit.
 - (2) Output Unit, ALU, memory unit
 - (3) Control Unit, ALU, memory unit
 - (4) Control Unit, memory unit, Output Unit.
10. Which one of the following is **not** a main component of a computer system?
- (1) Printer
 - (2) C.P.U
 - (3) Input devices
 - (4) Output devices
11. Which one of the following is **not** a characteristic of good information?
- (1) Relevancy
 - (2) Reliability
 - (3) Availability in large amount
 - (4) Accuracy
12. Which one of the following devices is used as both input and output device?
- (1) Touch pad
 - (2) Touch screen
 - (3) Memory card
 - (4) Magnetic Ink Character Reader(MICR)
13. Consider the following transmission media.
- (a) Infrared
 - (b) Fiber optics
 - (c) Coaxial cables
 - (d) Micro wave
- Which of the above is/are unguided media?
- (1) a only
 - (2) b only
 - (3) a and b only
 - (4) a and d only
14. What is the correct statement about computer memory?
- (1) ROM is a part of secondary memory.
 - (2) Data to be processed are stored in RAM .
 - (3) Memory register is established in the mother board physically.
 - (4) CD and DVD are classified as magnetic media
15. Which calculating machine of the following was invented first?
- (1) Step Reckoner
 - (2) Napier's Bone
 - (3) Analytical Engine
 - (4) Pascaline

16. The difference between RAM and hard disk is that, RAM is and hard disk is.....
- (1) Temporary, permanent (3) Internal , external
 (2) Less speedy , speedy (4) permanent, temporary
17. When the storage devices are arranged in descending order according to their access speed , it is...
- (1) magnetic tapes, disks ,cache, main memory
 (2) cache , main memory , registers, disks, magnetic tapes
 (3) registers, main memory, cache, magnetic tapes, disks
 (4) registers, cache, main memory, magnetic tapes
18. Which of the following storage device uses a magnetic field to read and write data?
- (1) Hard disk (3) DVD ROM
 (2) Flash Drive (4) Blue Ray disk
19. Which of the following devices can be used respectively to input drawings and characters?
- (1) Key Board, Mouse
 (2) Digitizer, Microphone
 (3) Mouse, Keyboard
 (4) Mouse, Light Pen
20. Web camera is considered as
- (1) Input device (3) input and output device
 (2) Output device (4) Storage device
21. Which of the following is a service that is provided from government to government(G 2 G)
- (1) Bank information
 (2) Gazettes and circulars
 (3) Diplomatic visa information
 (4) Business and business registration information
22. Select the best name for a network which is established in an office.
- (1) LAN (3) WAN
 (2) MAN (4) None of above
23. This network topology has characteristics of two topologies. One advantage of this topology is, it can control different network parts separately. Select the best topology name for the above description.
- (1) Ring (3) Bus
 (2) Star (4) Tree
24. Which one of the following is **not** an advantage of computer networking?
- (1) Ability share data and information
 (2) Ability to share resources
 (3) Ability to store data in a small space
 (4) Possible access of data for outsiders
25. Which one of the following is **not** a function of having a firewall in computer network?
- (1) Controlling data communication between the Internet and computer network
 (2) Providing the Internet facility
 (3) Working as a barrier between internet and computer network
 (4) Controlling the congestion between computer networks

26. What is the best network topology for LAN?
- (1) Bus (3) Ring
(2) Star (4) All above
27. Select the true statement about network topology.
- (1) The main disadvantage of tree topology is that the whole network system is connected to a main computer.
(2) In the bus topology, if one computer breaks down the whole system collapses.
(3) All the computers in star topology are connected to a main wire.
(4) Less amount of wires are used in ring topology.
28. Which of the following is/are a feature / features of fiber optics?
- (a) Velocity of Light
(b) Voltage
(c) Full internal reflection
- (1) a and b only. (3) a and c only.
(2) b and c only. (4) C and d only
29. What type of media is used in satellite communication?
- (1) fiber optic (3) twisted pair
(2) micro Wave (4) infra-red
30. What type of guided media in data transmission is used in TV antenna?
- (1) Shielded twisted pair (STP) (3) Unshielded twisted pair (UTP)
(2) Fiber optic (4) Coaxial cables
31. What is the most essential thing in establishing a computer network?
- (1) Internet Service Provider(ISP) (3) Network interface card
(2) Modem (4) Web browser
32. What is the fastest data communication media?
- (1) Unshielded twisted pair (UTP) (3) Microwave Cable
(2) Coaxial Cable (4) Fiber Optics Cable
33. Portrait and Landscape in word processing software are...
- (1) Size of paper (3) Margin
(2) Orientation of paper (4) All above
34. Select the false statement.
- (1) Mail merge facility in word processing software can create the same greeting card to different people.
(2) The document of a few pages that was created using a word processing can be orientated only in one direction.
(3) Word processing software can insert page number.
(4) The file extension of new word processing software is .docx
35. Which one of the following is/are correct statement/statements regarding word processing software.
- (a) A word that was cut could be pasted several times.
(b) Erased word can be retrieved
(c) The position of a word can be changed by cutting and pasting.
- (1) a and b is right (3) a and c id right
(2) b and c is right. (4) All above.

36. The word ‘sum’ in a document has been typed as “some” in numerous places. What is the facility for correcting the error?
- (1) Delete and Re-type
 - (2) Auto correct
 - (3) Find and replace
 - (4) Change Case
37. Which tool of word processing software is used to keep space?

- (1)  (2)  (3)  (4) 

38. What types of font formatting in word processing software are used in this sentence?

~~“Information Communication Technology”~~

- (1) Simple Case, Strike Through ,Font face
 - (2) Italic , Bold , Strike Through
 - (3) Strike Through, Font face, Bold
 - (4) Italic, Strike Through, Simple Case
39. MICR stands for
- (1) Magnetic Ink Character Reader
 - (2) Magnetic Ink Character Recognition
 - (3) Magnetic Ink Code Reader
 - (4) None of the above
40. What is the short cut key to copy a selected word in a different place?
- (1) Ctrl+V , Ctrl + X
 - (2) Ctrl+C , Ctrl + V
 - (3) Ctrl+C , Ctrl + X
 - (4) Ctrl+X , Ctrl + F



Sri Jayawardhanapura Zone

Grade 10

First Term Test – 2019 March

Information and Communication Technology – II

Time : 2 hours

Note:

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

1.

- I. Amal has three software of which the capacities are 2000 MB, 3 GB and 600 MB. He wants to give these to one of his friends using his 5620MB flash drive. Is the capacity of flash drive enough to do this. Show your calculations clearly.
- II. State whether the following statements True or False.
 - A. To make computer monitor, LED technology is used.
 - B. Only solid state devices can be connected to USB port.
 - C. RAM is installed in CPU
 - D. Giving maps to one country to another country is one of the facilities provided by G to G
- III. Write two characteristics of Distance Learning.
- IV. P and Q are two offices. Office P uses a computer network and Q does not. Write two advantages gained by office P comparatively to the office Q.
- V. Which code is used to take more information using a mobile phone about a product from company that the product has been manufactured.
- VI. Name the input device which can be used to mark attendance of the employees of a company.
- VII. Chose the best example for the labeled items. Write only the label name and the best example.

List – Blue Ray, Cache memory, Multimedia projector, Bar Code Reader, Magnetic Tape, Digital Camera.

 - A – Pointing Device
 - B – Output Device
 - C – Scanning Device
 - D - Secondary Storage Device
- VIII. State True or false of following statements given as A,B,C and D. Write only the letter (A,B,C or D) and state weather it is True or False.
 - A - ALU controls all the devices of the computer system.
 - B - Cache Memory is not volatile.
 - C - Analogue computers can identify environmental parameters such as temperature and voltage.
 - D Memory card is an example for solid state devices.

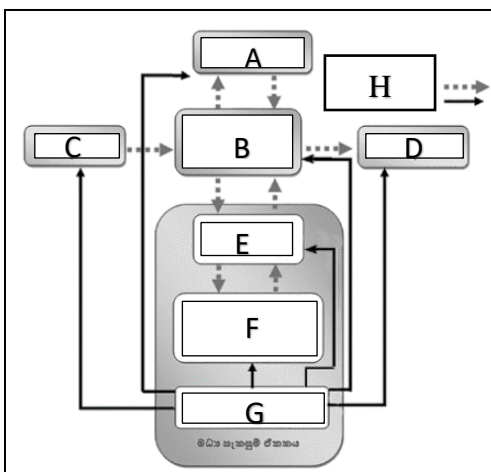
IX. Match the tasks of column A with the machine of column B. Writing only the relevant letters is sufficient.

A		B	
P	Monitoring the heart beat	E	EEG machine
Q	Displaying the movements of the heart on a monitor	F	CAT Machine
R	Showing the 3D images of different parts of the body	G	Cardiac Screening Machine
S	Recoding the activities of the brain	H	ECG Machine

X. Select the relevant port for the following functions. Writing the number and the relevant letter is sufficient.

Function		Port	
i.	Connecting a switch to the computer	A	HDMI
ii.	Connecting digital TV to laptop	B	USB
iii.	Connecting microphone to the computer	C	RJ45
iv.	Connecting digital camera to the computer	D	Audio Ports

2. Study the following picture of functioning the computer System and answer the questions given below.





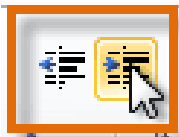



- I. Write the functions for the labels given as letters (ABCDEFGH).
- II. Which label is used for nonvolatile memory?
- III. Explain briefly the function of G and B.
- IV. Write two examples for each of A, C and D.

3. Answer for the following questions about the peripheral devices connected to the computer.

- I. Write four different types of keys of the keyboard with two examples.
- II. What are the different ways of classifying printers. Write two examples for each.
- III. Write four pointing devices.
- IV. Write two different types of monitors. Give one advantage and a disadvantage for each of them.

4. The following are some icons found in a word processing software.

A.	B.	C.	D.	E.	F.
					

- I. Name these icons.
- II. Write the function of the icon with the relevant letter.
- III. Write two facilities of a word processing software.
- IV. Name two examples of word processing software.

5. The following document has been made using a word processing software. Study it and answer the following questions.

art festival

The school principal has informed that this year's Art festival is going to be celebrated. The assigned task of you team is preparing necessary documents for the art festival. Accordingly you have to design **letters, invitations** and **certificates**.

1. Design invitations
2. Prepare letters to the parents
3. Design certificates

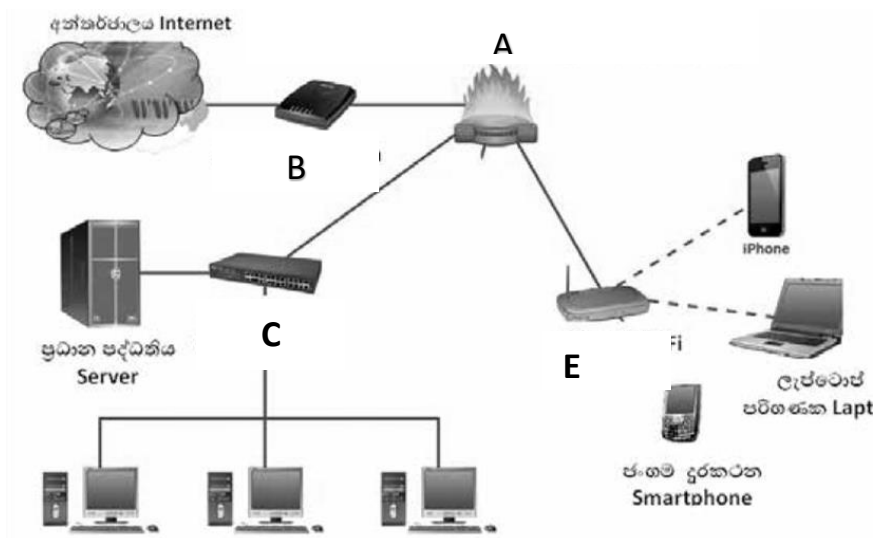


These documents should be well prepared and printed. After drafting the above documents, you now want to find the best method of document preparation. "we should find attractive types of letters and add pictures. A border will give a good finish. A typewriter won't provide such facilities, will it?"

- I. Write down five text formatting icons (tools) which have been used to make this document.
- II. What is the icon you have to use to change above first paragraph shown as below?

The school principal has informed that this year's Art festival is going to be celebrated. The assigned task of you team is preparing necessary documents for the art festival. Accordingly

- III. Write down the steps to change the list into the bulleted form, instead of numbers.
 - IV. Write down the steps to change all the letters of above topic into capital letters.
- 6.
- I. Write two types of data transmission media and show how they can be further classified.
 - II. Define what computer network is?
 - III. Describe briefly how can the computer network be classified geographically.
7. The picture below shows how the computers are connected to internet.



- I. Name the devices labeled as A,B,C,D and E
- II. Write the function of the device labeled as A.
- III. Write two differences between switch and hub.
- IV. Draw two different network topologies and name them.



First Term Test 2019
Information Communication Technology
Marking Scheme - Grade 10

Paper I

1	(3)	11	(3)	21	(3)	31	(3)
2	(1)	12	(2)	22	(1)	32	(4)
3	(1)	13	(4)	23	(4)	33	(2)
4	(4)	14	(2)	24	(4)	34	(2)
5	(3)	15	(2)	25	(2)	35	(4)
6	(1)	16	(1)	26	(4)	36	(3)
7	(3)	17	(4)	27	(4)	37	(3)
8	(2)	18	(1)	28	(3)	38	(2)
9	(3)	19	(3)	29	(2)	39	(1)
10	(1)	20	(1)	30	(4)	40	(2)

Paper II

1.

I. මෘදුකාංග වල මුළු ධාරිතාව = $1024 \times 3 + 2000 + 600 = 5672\text{MB}$

සැතැලි මතකයේ ධාරිතාව = 5600 MB

1 mark

ප්‍රමාණවත් නොවේ 1 mark

II.

A	√
B	×
C	×
D	√

III. Page no 12

IV. Page no 66-67

V. QR Code

VI. ඇභිලි සලකුණු යන්ත්‍රය

VII.

A	මෙහෙයුම් යටිය
B	බහුමාධ්‍ය ප්‍රක්ෂේපන යන්ත්‍රය
C	තීරු කේත කියවනය
D	බිලු රේ තැටි

VIII.

A	×
B	×
C	√
D	√

IX.

P	H
Q	G
R	F
S	E

X.

I.	C
II.	A
III.	D
IV.	B

(2×10 = 20 marks)

2.

I. A – ද්විතීයික මතකය

B – ප්‍රධාන/ප්‍රාථමික මතකය

C- ආදාන උපාංග

D – ප්‍රතිදාන උපාංග

E – මතක රෙජිස්තර

F – ALU

G – පාලන ඒකකය

H – දත්ත/උපදෙස් (4 marks)

II. A (1 mark)

III. G - පරිගණකයට සම්බන්ධ සියළු උපාංග පාලනය

B - දත්ත තාවකාලිකව රඳවා තබා ගනියි (2 Marks)

III. A – දෘඩ තැටිය, සැනෙලි මතක

C – මූසිකය, යතුරු පුවරුව

D - පරිගණක තිරය, මුද්‍රණ යන්ත්‍රය

(3 Marks)

3.

I. Typing Keys – A –Z letters

Function Keys – F1, F2, F3....F12 keys

Control keys – Delete, End, Home, insert keys

Numeric keys – 0 – 9

Special keys – cap locks, shift, tab (2 marks)

II. Impact – Dot matrix, Line

Non Impact – Laser, Bubble/Ink jet, thermal (2 marks)

III. Mouse, touch screen, Joy stick, Light pen (2 marks)

IV. CRT monitors – වාසි - මිල අඩුය, අවාසි- අධික විදුලි පරිභෝජනය

LCD monitors - වාසි - අඩු විදුලි පරිභෝජනය, අවාසි- මිල අධිකය (2marks)

4. a

I. A – Increase font size/Decrease font size

D – Spelling & Grammar

E – Increase/decrease Indent

B – Change Case

F - Hyperlink

C – Columns

(3 marks)

II. A - අකුරු විශාල/කුඩා කරගැනීම සඳහා

B - අකුරු කැපිටල්/සිම්පල් ඇතළු තවත් දේ කරගැනීමට

C - කොලම් 2ක් හෝ ඊට වැඩි ප්‍රමාණයකට සකස් කිරීමට

D - අක්ෂර වින්‍යාසය හා ව්‍යාකරණ පරීක්ෂා කිරීමට

E - ඡේද මාර්ජනයේ සිට ඇත් කිරීමට හා ළං කිරීමට

F - හයිප ලින්ක් ඇතිකිරීමට (3 marks)

III. Page no 164 (2 marks)

IV. Page no 165 (2 marks)

5.

I. Bold, Italic, insert picture, Word Art, justify, Numbering (5 marks)

II. Drop cap (1 mark)

III. Select number list , select home tab, select Bullets in paragraph command group (2 marks)

IV. Select word art, select Home tab, select change case in font command group (2 marks)

6.

I.

නියමු		නියමු නොවන
ඇඹරි කමිබි	UTP	ගුවන් විදුලි තරංග
	STP	
සමාක්ෂක යොත්		ක්ෂුද්‍ර තරංග
ප්‍රකාශ තන්තු		අධෝරක්ත තරංග

(4 marks)

II. පරිගණකයක් තවත් පරිගණකයක් හෝ කිහිපයක් සමග එකිනෙක සම්බන්ධ කිරීමෙන් පරිගණක ජාලයක් නිර්මාණයවේ. (1 mark)

III. Page no 63/64 (5 Marks)

7.

I. A – මාර්ගකය/ ගිනි පවුර

E – වයිෆයි

B – මොඩමය

C – ස්විචය/නානිය (2 Marks)

II. Page no 64 (2 marks)

III. Page no 61 (2 marks)

IV. Page no 65/66 (4 marks)



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