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மேல் மாகாணக் கல்வித் திணைக்களம்
Department of Education - Western Province

වර්ෂ අවසාන ඇගයීම
ஆண்டிறுதி மதிப்பீடு 2017
Year End Evaluation

ශ්‍රේණිය தரம் Grade	10	විෂයය பாடம் Subject	Information and Communication Technology I , II	පත්‍රය வினாத்தாள் Paper	II

- Answer **first** question and **four** others.
- **First** question carries 20 marks and 10 marks for each of other questions.

1.

(i). Consider the following hardware devices.
Keyboard, Modem, USB Flash drive, Multimedia projector, Printer, Hard disk, Monitor, Mouse.
Write the suitable hardware device for each of following tasks.

(a) To store a file till transferred to another computer. (.....)
(b) To connect to a computer. (.....)
(c) To present some information to an audience. (.....)
(d) To type a report. (.....)
(e) To get a print preview . (.....)

(ii). Write the word represented by 1100011, 1100001, 1100010, if "a" is represented with (ASCII) 1100001.

(iii). Give one example for each of the field where ICT is used.

(a) Education.....
(b) Medicine.....
(c) Banking.....
(d) Tourism Industry.....

(iv). All employees of "ABC" Software Company have been issued an electronic identification card. Each employee enters his card to a dive at the entrance door and types his password and employee number to mark attendance.

The attendance record is only marked when the both employee number and the password is accurate.

Relevant occasions are as follows.

Process	product
Employee Number "X" and Pass word "Y" are accurate.	1
Either the Employee Number "X" or Pass word "Y" is wrong.	0
Attendance "Z" is marked.	1
Attendance "Z" is not marked.	0

(a) Draw a truth table for the above scenario.
(b) Draw the logic circuit for the above truth table.(mark Inputs and outputs clearly)

(v). State weather the following statements are right or wrong. it is enough to write the label and your answer.

A. LED technology is used to make screen.
B. Panel ports are used to connect extra devices.
C. Only flash drives are connected to USB ports.

D. Ram is inbuilt in CPU.

(vi). Explain the difference between simplex and duplex communications briefly by giving one example for each.

(vii). Write two advantages of cloud computing.

(viii). Following table shows the RGB Decimal values of Dark Violet.

R	G	B
135	31	120

Write the hex decimal values of dark Violet.

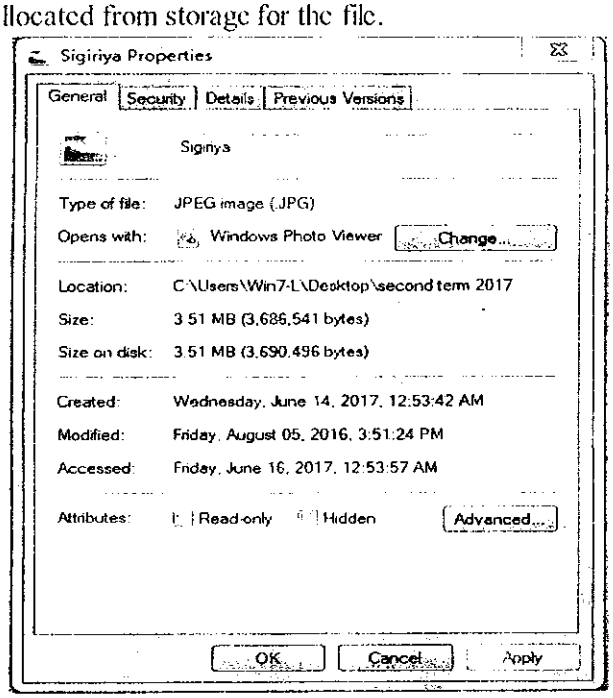
(ix). Consider the following window to answer the questions given below.

(a) The Name of file.

(b) The types of the file.

(c) The location of the file.

(d) The space allocated from storage for the file.



(x). List 4 steps to enhance the quality of an electronic presentation.

2. (i) Copy the table into your answer script and Filling the blanks.

Decimal	Binary	Octal	Hex decimal
.....	.....	456_8	.....
.....	10111011100_2	.....	.....

(ii) Consider the following decimal values of following symbols.

A – 65 C – 67 D – 68 O - 79

a – 97 b – 98 c – 99 d – 100 e – 101 o – 111

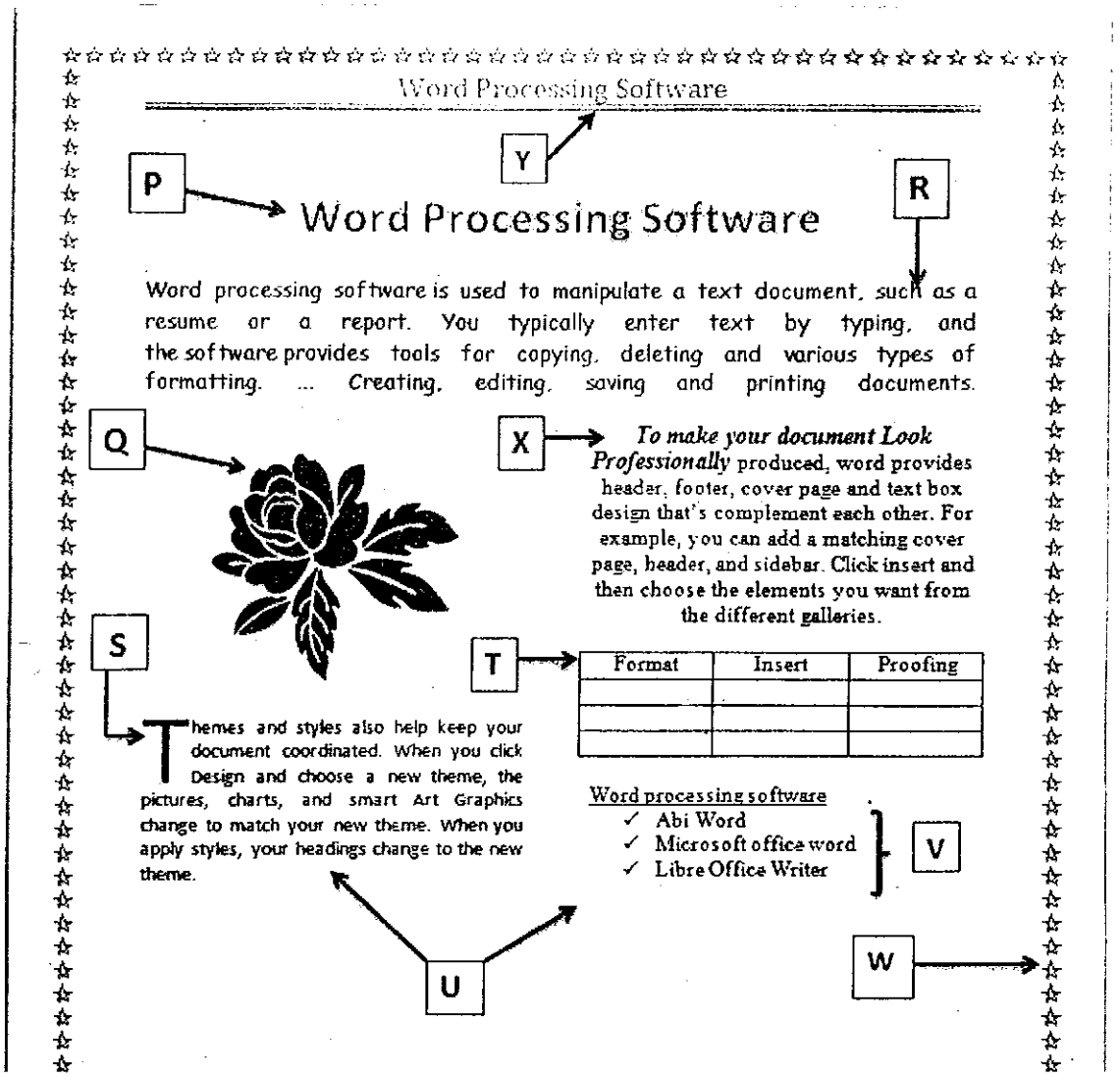
Write the Binary ASCII code for the word "Coded" in your answer paper.

(Write the steps.)

(iii) Draw the circuit and the truth table for the following Boolean expression.

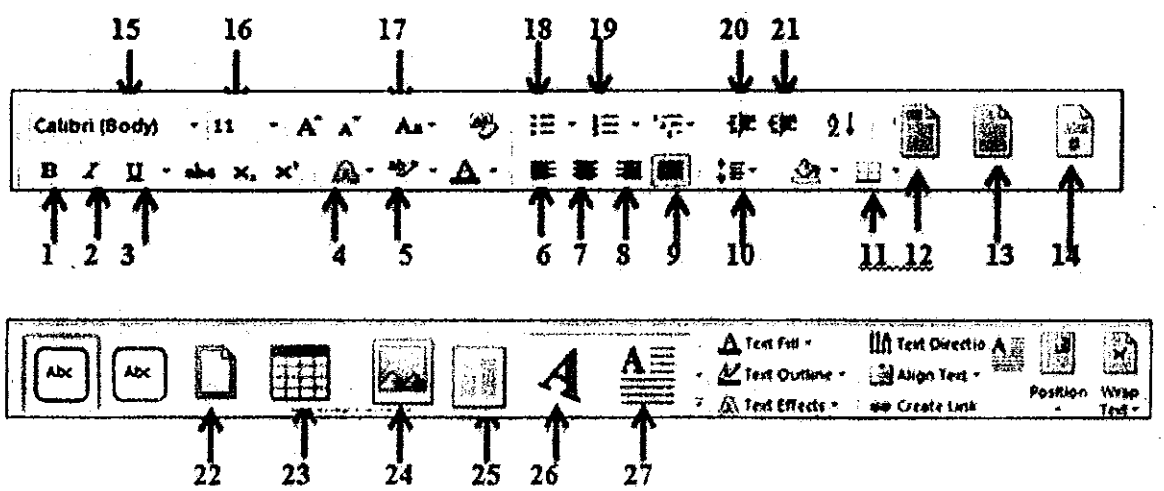
$((A + B)' + (B \cdot C'))'$

3. Study the following document.



Picture 1

Following two tool bars are from word processing software. Some of the tools have been marked from 1 to 27.



Picture 2

(i). Identify the tools to perform the tasks given below as marked in the document.

(It is enough to write the number of the tool with the label in your answer script)

1. P To format letters as in label-P.
2. Q To insert a picture as in label Q.
3. R To insert a picture as in label Q.
4. S To Display the first letter of the word as in label s.
5. T To get a table as in label T.
6. U To divide text in a document as in label U.
7. V To inset a list of items as in label V.
8. W To insert a page border as in as in label W.
9. X To format a sentence as in label X.
10. Y To inset a header as in label Y.

(ii). What is the facility available in a word processing package to insert characters such as Ⅱ①❻❻ €ⓡ🗸➲☑☒🖒?

(iii). What is the facility available in a word processing package to send personalized letters too many recipients?

(iv). State weather the following statements are right (√) or wrong(X). It is enough to write the label and your answer in the answer paper.

(a) Office 365 Word and I Work Pages are word processing software. ( )
(b) A word deleted from a word processing software is temporarily stores in clipboard.( )
(c) Font Size can be changed by Zooming. ( )
(d) Saving a document with a password is possible in word processing software.( )
(e) Key board can be used to select a word or a paragraph. ( )
(f) Libreoffice writer is open office software. ( )

4.

(i). An institute maintains a data base of its employees in a main computer.database operator downloads information using Internet facility in this computer and the information is given out using variety of storage devices.

(a) Classify secondary storages based on media used in storing data.
(b) Explain briefly of two threats to data stored in this computer.
(c) Mention two steps that the operator may use to protect data stored in the computer.

(ii). State weather the following statements are right (√) or wrong(X).

(a) Low capacity Rams affect the speed of computer ( )
(b) Wi-Fi and Blue tooth use infra-red rays for data communication. ( )
(c) The Hub uses half duplex technology in data communication. ( )
(d) A firewall is established to connect two or more computers. ( )
(e) Mainframe computers are used in e-marketing when information is exchanged with large number of users ( )
(f) Character scanner is used to mark MCQ papers. ( )

5. Following segment of spread sheet contains information of students of "Nanamal" Education institute.

	A	B	C
1	Course Details-2017		
2	Course	Number of students.	
3	Basic computer course	203	
4	Diploma Course	153	
5	Webpage designing	90	
6	Computer hardware	53	
7	Total No of students.		

Use the above segment of spread sheet to answer the following question.

(i). Write formula in B7 cell to get the total number of students in 2017.

(ii). Write the formula in cell C5 to calculate the percentage of students who follow web designing course against total number of students (students of web designing/total number of students) X 100. The same formula will be used to calculate the percentages of the students who follow the other courses.

(iii). What is displayed in cell C6, if the formula in cell C5 is copied to Cell C6?

(iv). Mention two types of charts in spread sheet software to display the values of above table about students of 2017.

(v). Write the cell range that you select to draw the charts you mentioned in answer (iv).

6. Following database tables are from "Ranmuthu caters" that sells short eats to its customers. Use the tables to answer following questions.

Food Item Table

Item_ID	Item	Stock
F001	Cutlets	350
F002	Patties	200
F003	Rolls	250
F004	Sandwich	275

Buyer Table

B_ID	Name	Phone
B01	Amali	12345678
B02	Vihangi	87654321
B03	Ruwan	58942367
B04	Kumari	45893562

Purchase Table

Date	Item_ID	B_ID	Count
2017/03/02	F002	B02	75
2017/03/02	F001	B01	100
2017/03/02	F004	B03	125
2017/03/02	F003	B04	175
2017/03/02	F004	B04	100

(i). List two primary keys with the names of relevant tables.

(ii). The Institute decides to Add 100 "Samosa" as a new short-eat item.
(a) What table/s need/s to be updated?
(b) Write the lines as it appear in table.

(iii). Write the foreign key/s with relevant table/s.

(iv). Jayamini (B_ID : 05, Phone: 43226789) Buys 175 Rolls and 75 Patties on 2017/03/02
(a) Which table/s should be updated?
(b) Write the lines as it appear in table /s.

7. The hospital director board of Denipitiya base hospital has decided to upgrade service to people of the area by developing the features given below.
- Use of information communication technology.
- Online health facility.
- Maintaining an online information system.

(i) Mention two machines that are used for diagnosing with their specialty.
(ii) Mention what is meant by online health protection list 3 devices that can be used by the Denipitiya rural hospital.
(iii) List 3 facility that may be suitable to provide online by the hospital.
(iv) Denipitiya hospital decides to increase its efficiency by contributing to "Green Computing". Mention how the hospital may subscribe to Green computing, with two examples.