Year End Examination 2015
Information & Communication Technology I
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Grade 10   **Time: 1 hour**
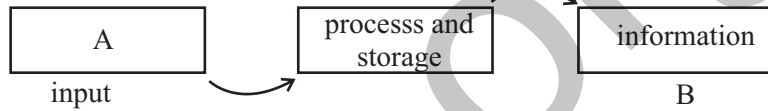
Name/ Index No.

- **Answer all the questions**.

- **Underline the most Suitable or Correct answer.**
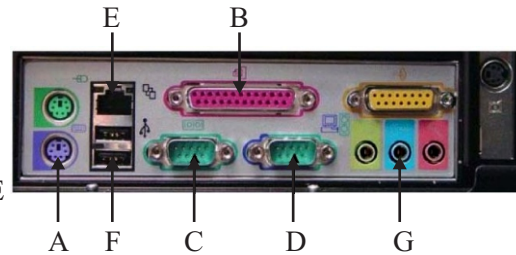
01 Which one the data, in following

  (1) The final result of the last election.

  (2) The result at G.C.E O/L examination in 2014

  (3) Capacity of RAM

  (4) Assending order mark sheet which is created using computer
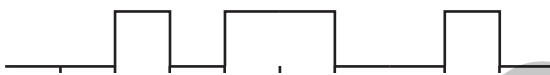
02 Name the A and B blanks

  (1) Calculate, Communication   (2) Data, Communication

  (3) Information, Output   (4) Data, Output

03 Which is not a characteristic of good information.

  (1) Relevance, fulfillment, accurate

  (2) Fulfillment, stored in Computer, Accurate

  (3) Timeliness, Relevance, Accurate

  (4) Lowcost, Accurate. fulfillment

04 Which instrument is not used in health or medical field

  (1) ECG/EEG   (2) ATM/CAL   (3) CT/MRI   (4) CAT/X-RAY

05   What is not correct details related to the computer generation.

  (1) The 1st generation - Vacuum Tubes, mouse, machine language

  (2) The 2nd generation - Transistor, floppy Disk, Assembly language

  (3) The 3rd generation - IC, Key board, High level computer language

  (4) The 4th generation - VLSI, Optical Disk, GUI Operating system

06 Which one of following is only Pointing Device

  A- Touch Screen   B Joystick

  C Web Cammera   D   Bar Code Reader

  (1) Only A and D   (2) Only B and C

  (3) Only A and C   (4) Only A and B

07 Which of the following option arrange the given storage

  (1) Dvd, Zip Disk, Jazz Disk   (2) Flooy Disk, Zip Disk, Jazz Disk

  (3) Hard disk, Dvd, CD   (4) Flooy, Jozz Disk Zip Disk

08 Which key is not include in special key type in computer key board

  1) ctrl   (2) Caps Lock   (3) Shift   (4) Print screen

- **Answer the question No 9,10,. 11 using following figure.**

09 What is the ports can we conect the printers.

(1) Only C and B   (2) Only D and E

(3) Only F and C   (4) Only B and F

10 We can connect multimedia Projector in to .... port.

(1) F   (2) E   (3) D   (4) B

11 Networking Cables conect to .... port

(1) G   (2) A   (3) B   (4) E

12 What is the answer include in correct date transmission mode in to following situations.

A   Kamal and Nimal watch the TV.

B   Ruwan calls to Ranil with telephone

C   Thushare send the message using Walki Talki machine

(1) A - Half Duplex ,   B Full Duplex C Simplex

(2) A - Full Duplex ,   B Simplex   C Half Duplex

(3) A - Simplex,   B Full Duplex   C Half Duplex

(4) A - Half Duplex ,   B Full Duplex   C Simplex

13 What is the binary code related to following diagram

(1) 1101001101   (2) 0011011010   (3) 0010110010   (4) 1100101011

14 Amal , Nalin . Deleesha and Sanjeewa are members of a family. Amal's age 31_8, Nalin's age 28_{16} , Deleesha age 100011_2 and Sanjeewa's age 33. Who is the eldest one among them ?

(1) Amal   (2) Nalin   (3) Deleesha   (4) Sanjewa

15 $P = 10101011_2$ and $Q = 1001111_2$; Then find the value of P - Q

(1) 1001111_2 (2) 134_8 (3) 100   (4) $A3_{16}$

16 What is the value of "A"?

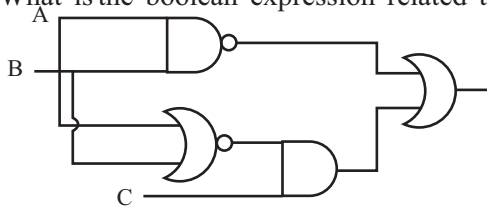| Colour	Hexa De:value	R	G	B
Purple	# 871F78	135	31	120
Sky blue	(A)	50	153	204

(1) # 3299CC   (2) # 3381AB   (3) # 312F99   (4) # 2888BA

17 What is the equal capacity value of a 3 kb icon in the desktop.

(1) 24 byte   (2) 2048 bits   (3) 6144 nibble   (4) 1 mb

18 How many bits are use to represent One character in EBCDIC code system ?

(1) 256   (2) 8   (3) 16   (4) 4

19 What is the correct logic circuits related to following truth table ?

Inputs	Output
0 0	1
0 1	0
1 0	0
1 1	0

20 Simplify the following boolean expression 1.1+0.1

(1) 1.1   (2) 2   (3) 0   (4) 11

21 What is the boolean expression related to following logic gate circuits ?

(1) $[C+(\overline{A.B})].(\overline{A+B})$

(2) $[C.(\overline{A+B})]+(\overline{A.B})$

(3) $[C.(\overline{A}.\overline{B})].(\overline{A+B})$

(4) $[C+(\overline{A}.\overline{B})[+(\overline{A.B})$

22 The value is $x+(\overline{y}+y)$

(1) $\overline{y}+x$ (2) 1   (3) O   (4) X

23 Consider the following computer programs and softwares

    A   Anti Virus Software   B   Disk cleanup

    C   language Translater   D   Dos

    Which are the utility programes of them ?

(1) Only A and C   (2) Only C and D

(3) Only B and C   (4) Only A and B

24 Consider the following soft wares.

    A   Dos   B   Windows xp   C   Linux   D   Explora

    What are the operating systems of them ?

(1) Only A, B and C   (2) Only A, and B

(3) Only A, and D   (4) Only A, B, C and D

25 What are the MSD and LSD value of 1357.0 is,

(1) LSD 1, MSD 0   (2) LSD 7, MSD 1

(3) MSD 1, LSD 7   (4) MSD 7, LSD 0

26 UPS means

(1) Uninterrupted Power Support   (2) United Power Supply

(3) Uninterrupted Power Supply   (4) United Power Support

27 Which is not a facility of word processing soft wares.

(1) Insert pictures to document   (2) Create animation

(3) Insert a table to document   (4) Put a password to save the document

28 What is the most suitable task or methord to change the typed word " for " as "fore" in a word document

(1) Spelling and Grammer   (2) Auto Correct

(3) Find and Replace   (4) Translater

29 What is the most suitable application to use create the topic of coverpage ?

(1) Word Art   (2) Justify   (3) Drop Cap   (4) Shap

● **Answer the question No. 30-32 using the following excell work sheet.**

	A	B	C	D	E
1			Mark Sheet (A)		
2					
3	Name	Maths	English	Science	Total
4	Kamal	80	50	70	200
5	Chamal	20	30	40	90
6	Ruwan	60	50	80	160
7	Deleesha	40	50	70	
8		20		80	
9					

30 What is the answer which include the correct steps to create title as shown "A" in the mark sheet?

(1) Select Cells → Delete → Type mark sheet

(2) Select Cells → Marge Cell → Type mark sheet

(3) Select Cells → Backspace → Type mark sheet

(4) Select Cells → Format Cell → Type mark sheet

31 What are the formula should enter to E_4 E_8 cells to get values.

(1) = Sum (B4 : D4) and = Sum (E4 : E 7)   (2) = Count (B5 : D5) and = Sum (B8 : D8)

(3) = Sum (B6 : D6) and = Sum (E4 : E 7)   (4) = Sum (C4 : C7) and = Sum (B8 : D 8)

32 What are the relevant formula should enter to B8 and D8 cells to get those values.

(1) Max (B4 : D7) and = Mini (B4 : D 7)   (2) Max (B4 : D4) and = Mini (B4 : D 7)

(3) Max (D4 : D7) and = Mini (D4 : B 7)   (4) Mini (B4 : B7) and = Max (D4 : D 7)

33 Slide Design use to creating Power Point presentation because,

A   We can reduce the time

B   There is a colour scheme for suitable slide show

C   There are action buttons to slide show

What in the truth statement?

(1) Only A and B (2) Only B and C (3) Only A and C (4) Only A B and C

34 Which is not a electronic presentation software
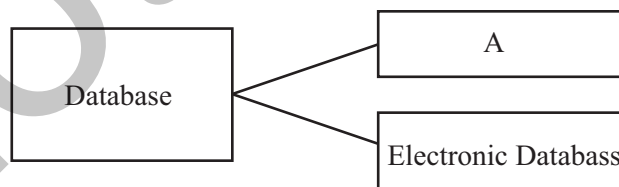
(1) Open Office org impress   (2) Apple keynote

(3) Corel perfect   (4) Microsoft Power Point

35 This icon is shown as

(1) Slide Design   (2) Slide Soter

(3) Normal Slide   (4) Slide Show

36 There are Two types of data base, A is one of them?

(1) manual Database

(2) Computerized

(3) Data Stored

(4) Information

| Database | — | A |
| | | Electronic Databass |

37 Which is the database management software. (DBMS)

(1) MS- Access   (2) MS- Publisher   (3) Open Office Cal   (4) Firefox

38 This icon is represented in MS- Access.

(1) form View

(2) Database View

(3) Design View

(4) Slide Show

39 What is the connecting device is used to computer networking task?

(1) Modem   (2) Client Computer   (3) Switch   (4) Server Computer

40 There are some name of electronic devises

A multimedia projector   B flat scanner

C Slide projector   D Over head projector

(1) Only A, B and D   (2) Only A, B and C

(3) Only A, D and C   (4) Only A, C and D

(40 marks)

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Grade 10 තොරතුරු හා සන්නිවේදන තාක්ෂණය **II**
Time: 2 hours

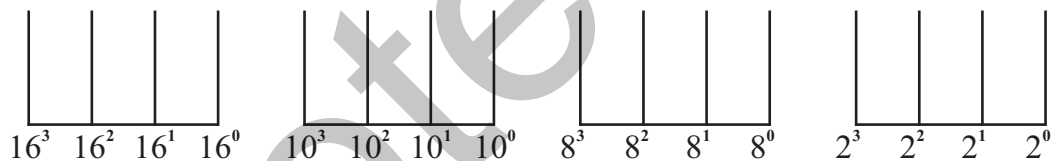| Name/ Index No. |
|---|

- **Answer first question and four other questions.**

- First question carries 20 marks and each of other questions carries 10 marks each.

01 (1) Write 4 main characteristics of an information.

(2) Match column A and B.

A	**B**
Charles Babbage	Punch Cord System
Ada Augusta	Adding Machine
Blaise Pascal	First Computer programmer
Joseph Jaquard	Analitical Engine

(3) Classify the data transmision media with examples.

(4) Display the 15 Decimal value from the following abacus.

$$16^3 \quad 16^2 \quad 16^1 \quad 16^0 \quad 10^3 \quad 10^2 \quad 10^1 \quad 10^0 \quad 8^3 \quad 8^2 \quad 8^1 \quad 8^0 \quad 2^3 \quad 2^2 \quad 2^1 \quad 2^0$$

(5) A merchant sells a pack of three items for Rs. 100. The Pack contains a book (A), color box (B). The Customer can select either a pen (C) or a pencil (D) as the third item. Write the suitable Boolean expression for above statement.

(6) What are he types of operating System interfaces and write examples for each one.

(7) The ASCII Code of the character "C" is 67 decimal value. What is the ASCII code of the represent the character "E" in binary.

(8) Classify the computers according to the size.

(9) What are the function of the following short cut key ?

     1.   Ctrl + V   2.   Ctrl + B

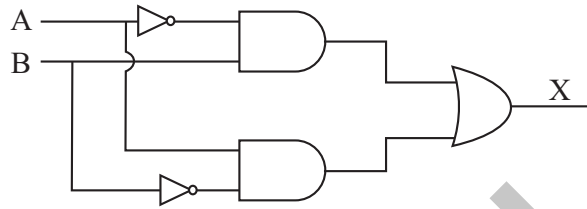(10) Write the number fields and records are in the following Table

Num	Name	DOB	Fees
001	S. M. Ruwan	91. 07. 18	Rs. 1000
002	R. M. Ranil	90. 08. 10	Rs. 1000
003	H. M. Thushara	92. 04.05	Rs. 1000

(2 x10=20)

02 (1) Calculate the following sums related to number systems.

- $372_8 + 53_8$
- $AB_{16} + 103_{16}$

(ಅ. 03)

(2) 1. Write the Boolean expression for x? (m-02)

2. Draw the truth table. (m-02)

(3) Draw the logic gate circuit for following expression.

$A = [(\bar{x} + \bar{y}) + (\overline{x \cdot y})] + C$
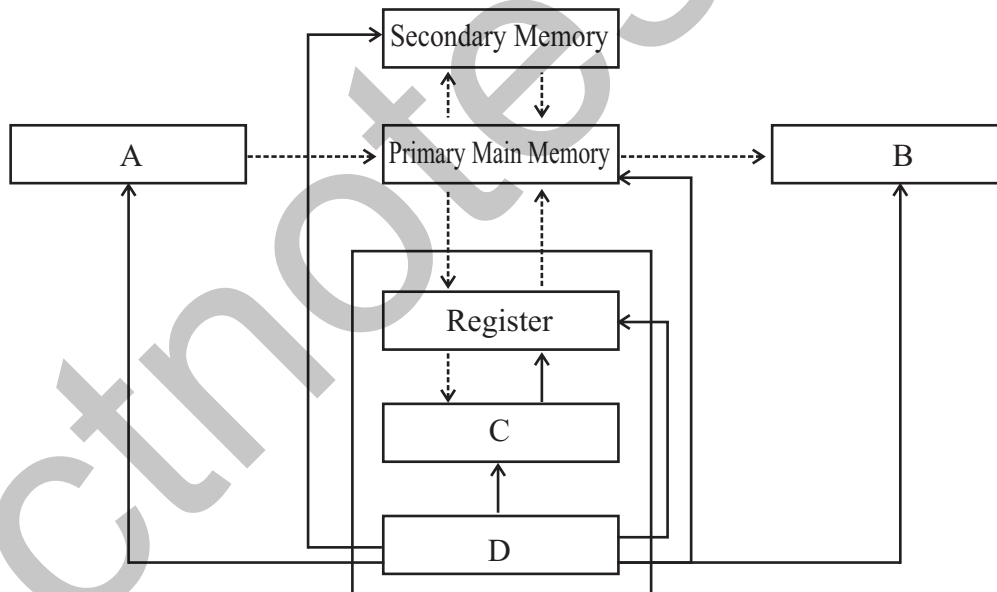
(m-03)

03 (1) Write the three elements of made a computer. (m-02)

(2) Classify the operating system. (m-02)

(3) Write 03 hardware control management process in a operating system. (m-03)

(4) Write the steps to create a new folder in D drive in a hard disk. (m-03)
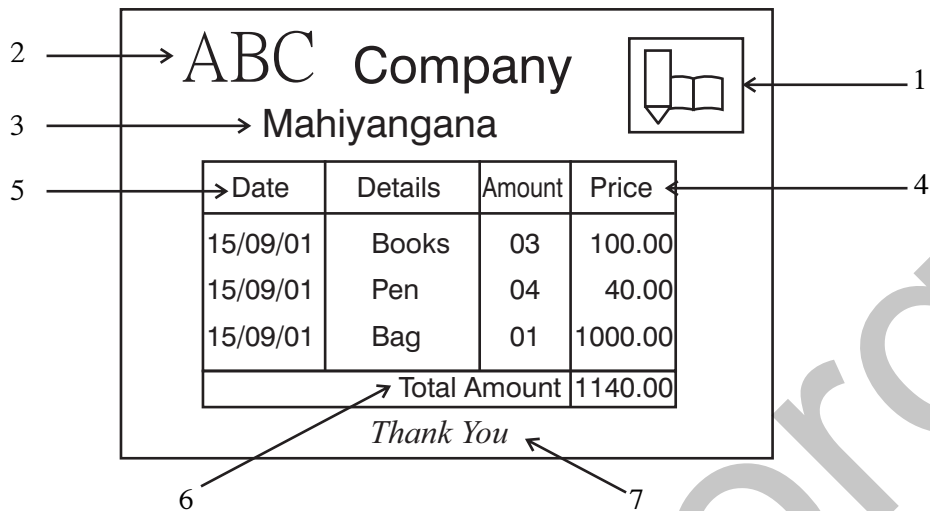
04

(1) This is diagram of a computer control processing unit. Name the A,B,C and D. (m-04)

(2) Write the types of classification of secondary storage with examples. (m-04)

Secondary Storage
- 1 magnetic media Devices (i) ....
- 2 .... (ii) ....
- 3 .... (iii) ....

(3) Write three main network types. (m-02)

05 (1) Write three main word processing facilities in word processing software. (m-03)

(2) There is a document which created using word processing soft ware.

2 →	ABC Company	1
3 →	Mahiyangana	

Date	Details	Amount	Price
15/09/01	Books	03	100.00
15/09/01	Pen	04	40.00
15/09/01	Bag	01	1000.00
	Total Amount		1140.00

Thank You

5 → (pointing to Date)
4 ← (pointing to Price)
6 (pointing to Total Amount)
7 (pointing to Thank You)

Write the word processing applications of facilities of numbered 1 to 7. (m- 07)

06 The sample spreadsheet following shows marks obtaining by five children for four subjects

	A	B	C	D	E
1	Name	Sub 01	Sub 02	Sub 03	Sub 04
2	Rashmika	50	70	90	50
3	Ruwan	70	65	50	60
4	Thushara	80	81	70	95
5	Ranil	65	63	71	80
6	Thushantha	82	52	62	70
7	minimum marks				
8	maximum marks				
9	Average				
10	Progress level				

(1) Write the required formula to calculate minimum marks, maximum marks , Average marks in B7, B8 and B9 cells to analyses the marks. (m- 03)

(2) Explain how the values for other colums in cell BT be obtained (from B7 to E 7) without introducing a formula again. (m- 03)

(3) Write the formula should enter Bio Cell calculate or display progress level of subject 01. (If the student got 50 or more than 50 marks the progress level should display 'good' else 'bad') (m- 03)

07 Write the short note for only four topics among following topics.

(1) Advantages of Networking　　　(2) Social network

(3) Bad effects of using computer　　　(4) ICT application in the banking field.

(5) Universal serial Bus (USB) port　　　(6) e- government