**Year End Examination 2015**
# Information & Communication Technology I
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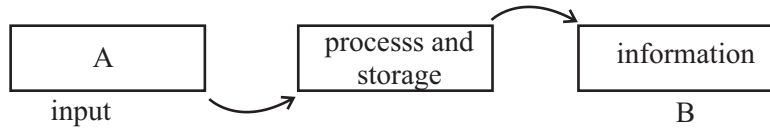**Grade 10**                                                                    **Time: 1 hour**

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

- **Answer all the questions**.

- **Underline the most Suitable or Correct answer.**

01    Which one the data, in following
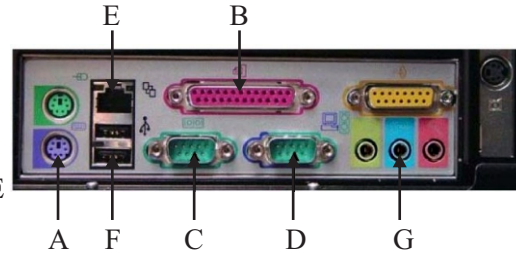
    (1)    The final result of the last election.

    (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

| A | | processs and storage | | information |
|---|---|---|---|---|
| input | | | | B |

    (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 $1^{st}$ generation - Vacuum Tubes, mouse, machine language

    (2)    The $2^{nd}$ generation - Transistor, floppy Disk, Assembly language

    (3)    The $3^{rd}$ generation - IC, Key board, High level computer language

    (4)    The $4^{th}$ 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, JazzDisk       (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

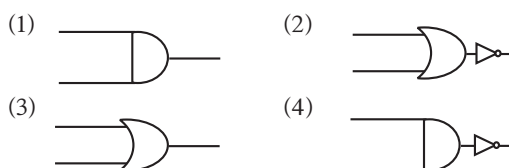13   What is the binary code related to following diagram



(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" ?

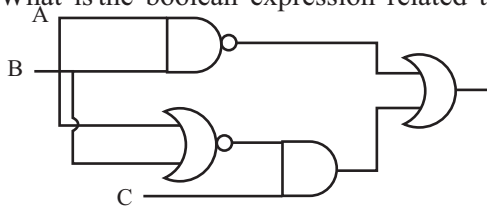| Colour | Hexa De:value | R | G | B |
|---|---|---|---|---|
| Purple | # 871F78 | 135 | 31 | 120 |
| Sky blue | Ⓐ | 50 | 153 | 204 |

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

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

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

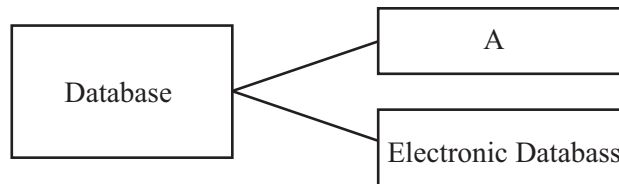(3)   Corel perfect                            (4)  Microsoft Power Point

35      This icon is shown as

(1)   Slide Design          (2)  Slide Soter

(3)   Normal Slide          (4)  Slide Show
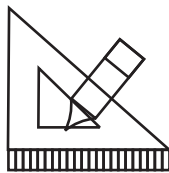
36    There are Two types of data base , A is one of them?

(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)

**Year End Examination 2015**
# Information & Communication Technology II
**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.



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

(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

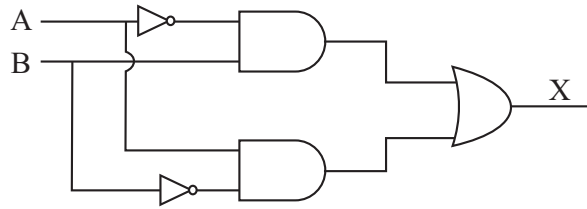(10)  Write the number fields and records are in the following Table

| 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 x 10=20)

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

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

(ඉ. 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.

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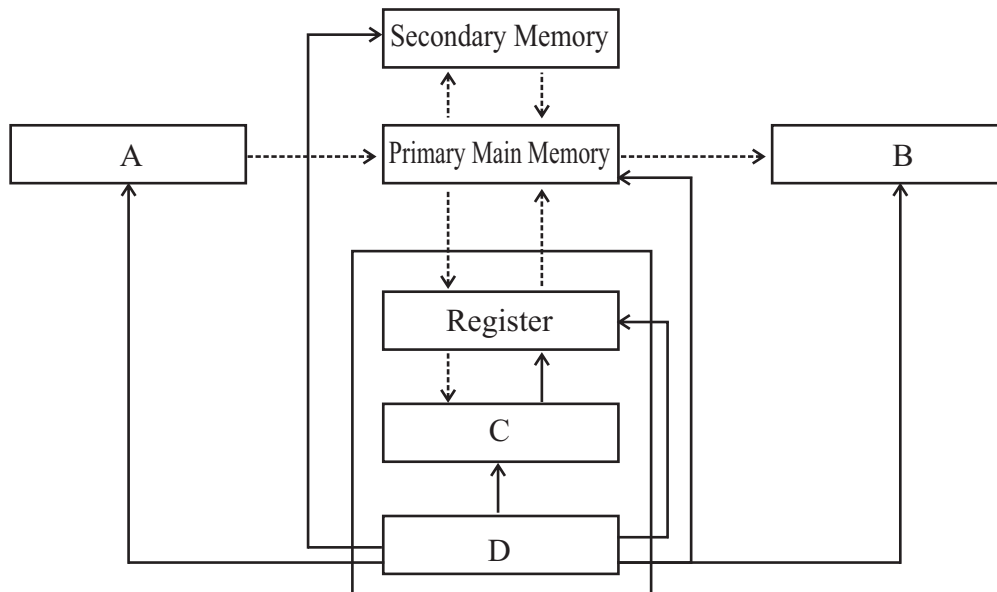
(m-03)

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)
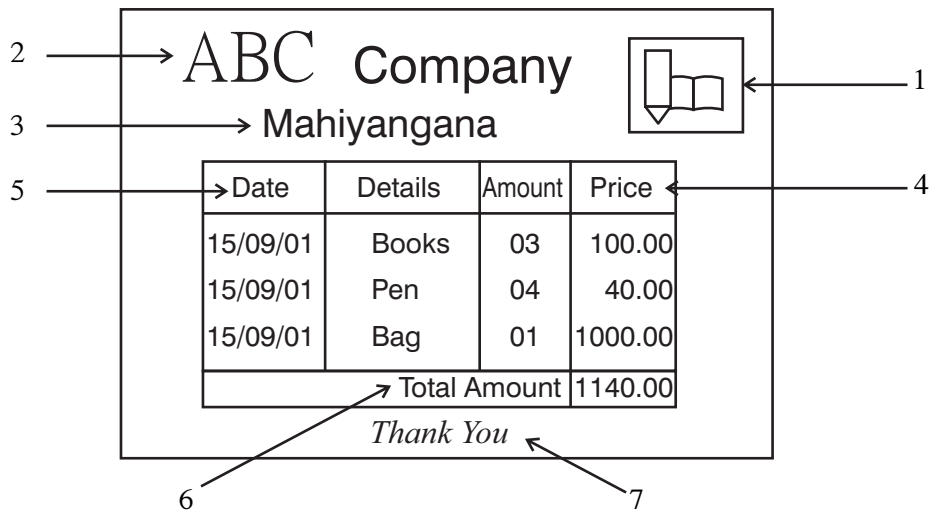
04



(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 software.



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