Mid Year Examination 2015
Information & Communication Technology I
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Grade 10

Time: 1 hour

Name/ Index No.

- **Answer all questions.**
- **In each of the question 1 to 40, pick one of the alternative (1), (2), (3), (4) which you consider as correct or most appropriate.**

01. Consider the following statements,

    A - The names of students in a class.

    B - The class mark sheet related to the year end term test.

    C - The G.C.E (O/L) examination result sheet.

    D - The numbers of salary pay sheets of teachers.

    Which of the data,

    (1) Only A   (2) Only A and B   (3) Only A and D   (4) All A, B, C and D

02. Find the answer for A and B

Input Data	→	A	→	Output B

    (1) A - storage   B - Details   (2) A - Process   B - Numbers

    (3) A - Process   B - Information   (4) A - Information   B - Process

03. Which Scanner type is not used in a medical field,

    (1) ECG, EEG   (2) CT, MRI   (3) CAT, X - ray   (4) ATM, CAL

04. Which is not a party or section that not support by E-government,

    (1) G 2 C   (2) G 2 G   (3) G 2 S   (4) G 2 B

05. Who was introduced the punch cord system to the computer system.

    (1) Joseph Jacquard   (2) Gottfried Wilhelm   (3) John Napier   (4) Blaise Pascal

06. Which of the following the correct order that used technical processing device in the 1st, 2nd and 3rd computer generation,

    (1) Vacuum Tubes, Integrated Circuits, Micro Processor

    (2) Vacuum Tubes, Transistors, Micro Processor

    (3) Vacuum Tubes, Integrated Circuits, Transistors

    (4) Vacuum Tubes, Transistors, Integrated Circuits

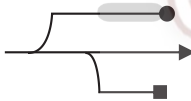07. What is the computer generation Assembly language was used?

    (1) The first generation   (2) Second generation

    (3) Third generation   (4) Fourth generation

08. Who is the father of computer?

    (1) Charles Babbage   (2) Gottfried Wilhelm   (3) Joseph Jacquard   (4) John Napier

09. Which is the classification of computer according to size?

    (1) Super computer, Main frame computer, Mini computer, Micro computer

    (2) Super computer, Digital computer, Mini computer, Micro computer

    (3) Digital computer, Analog computer, Hybrid computer, Micro computer

   (4) Main frame computer, Digital computer, Mini computer, Hybrid computer

10. What are the types of keys in, Shift key, Alt key, F1 key in the key board?

    (1) control key / special key / function key   (2) function key / control key / special key

    (3) special key / control key / function key   (4) special key / control key / numeric key

11. Only Pointing Device in flows

    (1) Only A and B   (2) Only B and C   (3) Only B, C and D   (4) all A, B, C and D

12. What is the most suitable scanner type for checking the answers of multi choice question paper in examination?

    (1) MICR Scanner   (2) OMR Scanner   (3) OCR Scanner   (4) Flat bed Scanner

13. The current salesman who goes to many shops and gets many business orders and does the many transactions according to his business. He goes for sales for his motor bike.

    Which is the most suitable computer type to use his business task?

    A - DESKTOP Computer

    B - NOTE BOOK Computer

    C - LAPTOP Computer

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

14. What is the printer type which can get printouts very fast?

    (1) Dot matrix printers   (2) lnk jet printers

    (3) Laser printers   (4) Line printers

15. There are many ports can be connected mouse and key board into computer which are the most appropriate ports.

    (1) Parallel port, PS2 port   (2) PS2, Parallel, Network port

    (3) USB port , PS2, serial port   (4) Modem port, PS2, USB port

16. Which port is indicated by this symbols on the computer back panel?

    (1) PS2 port   (2) VGA port

    (3) Serial port   (4) USB port

17. Data transmission modes of Radio, Telephone, Walki Talki are,

    A - Simplex data transmission

    B - Half Duplex data transmission

    C - Full Duplex data transmission

    Which is the correct order of above statements?

    (1) B, A, C   (2) A, C, B   (3) A, B, C   (4) C, A, B

18. What are the technical types to store the data and information in the memory devices?

    (1) Semi conductor, Electronic media

    (2) long time and short time memory

    (3) optical media, magnetic media, solid state media

    (4) magnetic media, neno technology

19. Which is not essential device in computer networking task

    (1) HUB   (2) Switch   (3) NIC Card   (4) Telephone

20. 'Ashen and Sons' is a business institute which spread the few areas as that branches. These all branches connect together with computer network. It helps to develop this business in daily.

What is the network type may be used to connect the computers with all branches.

(1) LAN   (2) MAN   (3) WAN   (4) House network

21. If Base = N (is a number system) the largest digit it that number system can be find.

(1) n * 1   (2) n + 1   (3) n   (4) n - 1

22. What are the MSB value and LSB value related to 2015.0

(1) MSB = 2 LSB = 0   (2)   MSB = 5 LSB = 2

(3) MSB = 2 LSB = 5   (4)   MSB = 0 LSB = 2

23. What are the MSB (most significant bit) and LSB (least significant bit) of 8

(1) MSB = 1 LSB = 0   (2)   MSB = 8 LSB = 0

(3) MSB = 0 LSB = 1   (4)   MSB = 0 LSB = 8

24. What is decimal equivalent of 1010_2

(1) 05   (2) 06   (3) 10   (4) 12

25. $X = 1101_2 + 1011_2$ simplified answer of X is,

(1) 1100_2 (2) 1110_2 (3) 11000_2 (4) 100010_2

26. $p = 55_8$ and $q = 1010_2$ then p - q is ?

(1) 100011_2 (2) 36_{10} (3) 20_{16} (4) 34_8

27. What is the Hexa Decimal equivalent of 763_8 is

(1) 1153_{16} (2) 599_{16} (3) $1F3_{16}$ (4) $B53_{16}$

28. How many bits are used in EBCDIC code system?

(1) 04   (2) 08   (3) 07   (4) 16

29. What is the correct order that represent most fast data transmission to process?

(1) Register, Cache memory, RAM, Flash Drive

(2) Cache memory, RAM, Flash Drive, Register

(3) Flash, RAM, Cache memory, Register

(4) RAM, Flash, Register, Cache memory

30. If the ASCIT code character B = 1000010_2 what is the value of character "E" ?

(1) 1000100_2 (2) 1000110_2 (3) 1000101_2 (4) 100011_2
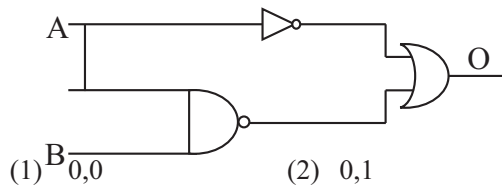
31.
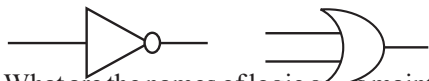
What are the names of logic gates maintained above?

(1) OR and AND   (2) NOT and OR   (3) NOR and AND   (4) NOT and AND

32. What is the equivalent logic gate to

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

33. If the output of following logic circuit = O, what should be the values of A and B respectively

(1) 0,0   (2) 0,1   (3) 1,0   (4) 1,1

34. Which is not a Utility programe

    (1) Anti Virus software   (2) Disk Formatting

    (3) Backup software   (4) Graphic software

35. Which is not an operating system with graphical user interface,

    (1) DOS   (2) Windows XP

    (3) Windows 07   (4) Ubonto

36. There are few files which are stored in the computer created by Ruwan,

    List.docx   B'day.pptx   salary.xlsx

    What are the softwares Ruwan used to create that files?

    (1) MS - Excel, MS - Word, MS - Power point

    (2) MS - Word, MS - Access, MS - Paint

    (3) MS - Access, MS - Power Point, MS - Word

    (4) MS - Word, MS - Power Point, MS - Excel

37. What is the wrong statement relate with computer file,

    (1) File is use to store computer data

    (2) Can change file name

    (3) Can create folders in a file

    (4) File has a file extension as .docx, pptx............ etc.

38. In word processing software Microsoft word 2010 in the Home ribbon, the symbol   is respect ively represent,

    A

    (1) Underline the word   (2) Strong the font colour

    (3) Colour the word   (4) Grow font

39. Which are the short cut keys to get a new document?

    (1) Ctrl + N   (2) Ctrl + D   (3) Ctrl + M   (4) Ctrl + S

40. What is the only word processing software,

    (1) Open office writer, word perfect, Microsoft word

    (2) Abi word, Microsoft word, Corel draw

    (3) Microsoft word, Open office cal. word perfect

    (4) Kingsoft office writer, Abi word, Corel Draw

Mid Year Examination 2015
Information & Communication Technology II
තොරතුරු හා සන්නිවේදන තාක්ෂණය II

Grade 10

Time: 2 hours

Name/ Index No.

- **Answer five questions only including first question and four other questions.**

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

01. Write short answers.

   (1) Write two ICT applications in business field.

   (2) Write four features should have an information.

   (3) Write four functions of a computer.

   (4) Write the equivalent binary (numbers) values for follows.

         A 521_8 B 73_8

   (5) Draw the logic gate circuit to,

   $$(\overline{A+B}) \cdot (A+B)$$

   (6) Find the values of X and Y

A	B	$\overline{A} + \overline{B}$
0	0	1
0	1	Ⓧ
1	0	1
1	1	Ⓨ

   (7) Write two differences per LCD monitors and CRT monitors.

   (8) What are the main features that are in the graphical user interface. Write 04 about them.

   (9) Write 02 icons which are used in word processing task to create as O_2 and 1st.

   (10)   (2 x 10 = 20 marks)

02. (1) Write the technical concept to related fifth computer generation.   (1 mark)

   (2) Write per 2 features about the first computer generation and the third computer generation?   (2 marks)

   (3) Write per two ICT application in following field

       1. Education field

       2. Agricultural field

       3. Entertainment   (3 marks)

   (4) Classify the computers according to computer size and name the appling these computers.   (4 marks)

03. "Thisum" works using computers in their different sections in his industry. He wants to

develop his industry by net working the system. He is searching details about computer networking.

   (1)   Write two advantages of computer networking. (2 marks)

   (2)   How to get promotion or advertise to this industry. (2 marks)

   (3)   Write the two suitable computer network topologies which are implement in this industry and name per two advantages of them. (3 marks)

   (4)   What are the two differences of LAN and WAN.

       Write an example to each network types. (3 marks)

04. A and B are the inputs of the logic gate circuit and X is the output.
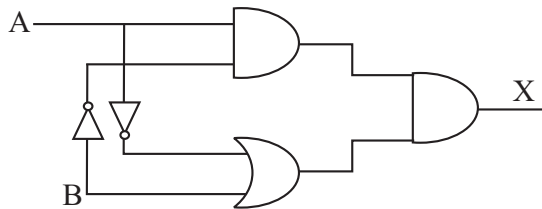
   (1)   Write the Boolean expression to represent the above logic circuit. (2 marks)

   (2)   Draw the truth table for that expression. (2 marks)

   (3)   Simplify the following sums.

       1. $100111_2 - 11111_2$

       2. $100101_2 - 1001_2$ (4 marks)

   (4)   Convert the hexadecimal $3D_{16}$ into Decimal. (2 marks)

05.
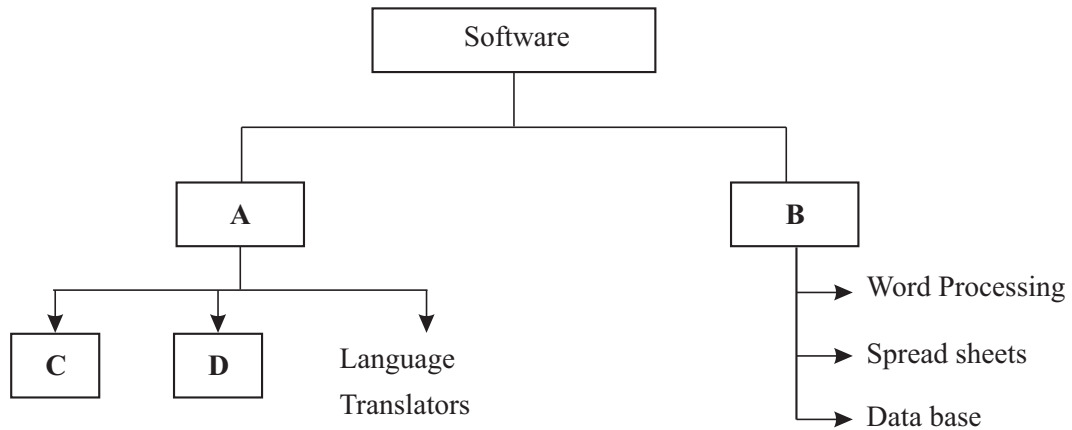

   (1)   Write the _____ (5 marks)

   (2)   Write the way to save this file in my Documents as Extra Class (File name) (3 marks)

   (3)   What is the function of following icons in a word processing software? (2 marks)

06. (1) There are two types of interfaces in an operating system. Name them with an examples.
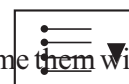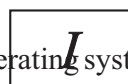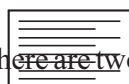
(2)   Classify the operating system according to procedure.   (4 marks)

(3)   Write the appropriate words to A, B, C and D.   (4 marks)

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                        ┌─────────────┐
                        │   Software  │
                        └──────┬──────┘
              ┌────────────────┴────────────────┐
          ┌───┴───┐                         ┌────┴───┐
          │   A   │                         │   B    │
          └───┬───┘                         └────┬───┘
      ┌───────┼───────┐                          ├──→ Word Processing
   ┌──┴──┐ ┌──┴──┐  ┌──┴──────┐                  │
   │  C  │ │  D  │  │Language │                  ├──→ Spread sheets
   └─────┘ └─────┘  │Translators                │
                    └─────────┘                  └──→ Data base
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07.   Write brief accounts on any four of the following titles,

(1)   USB port

(2)   Star Topology

(3)   Computer games

(4)   Utility software

(5)   Simplex Data transmission

(6)   Unguided media.