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සියලුම හිමිකම් ඇවිරිණි/முழுப் பதிப்புரிமையுடையது/All Rights Reserved

දකුණු පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
தென் மாகாணக் கல்வித் திணைக்களம்
Department of Education, Southern Province

දෙවන වාර පරීක්ෂණය - 2024
இரண்டாம் தவணைப் பரீட்சை - 2024 / Second Term Test - 2024

ශ්‍රේණිය தரம் Grade	Grade 10	Information and Communication Technology I, II	කාලය நேரம் Time	03 hours

නම பெயர் Name ..... විභාග අංකය சுட்டிலக்கம் Index No. .....

Additional reading time is -10 minutes	Use the extra reading time to read the paper, select questions and organize questions to prioritize when writing answers.

Part I

- Answer all questions.
- In each of the questions 1 to 40, pick one of alternatives (1), (2), (3), (4) which is correct or most appropriate.
- Mark a cross (x) on the number corresponding to your choice in the answer sheet provided.
- Further instructions are given on the back of the answer sheet. Follow them carefully.

1. Which of the following is an example of data processing?
   (1) Installation of electronic spreadsheet software by a class teacher on his/her computer.
   (2) Providing names and marks of the students of the class by to the software by himself/herself
   (3) Calculating the total and average of marks using the software
   (4) Obtaining a printout showing the total and average of the class marks

2. Which of the following answer shows a data and information respectively?
   (1) Total marks obtained for the subjects by a student in a term test and the marks for each subject
   (2) Showing the members of a family together as a family and showing them seperately as members of a family
   (3) Wind speed, humidity, location of satellite images and weather report
   (4) Graph that displays Sri Lanka's total population and population by gender

3. A student visits the website of the Examination Department and checks his examination result. To which e-government service does this relate to?
   (1) G 2 C (2) G 2 G (3) G 2 B (4) G 2 E

4. Some of the scan tests used to diagnose diseases in the health sector are given below. Match their functions correctly.

A	CAT
B	ECG
C	EEG
D	MRI

1	Shows the heart beat rate graphically on a paper
2	Provides three-dimensional images of the internal parts of the body
3	Provides detailed pictures of internal parts of the body
4	Brain function is shown on a television screen

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

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5. Which generation of computers used Very Large Scale Integrated Circuits (VLSIC)?

(1) 1st Generation (2) 2nd Generation (3) 3rd Generation (4) 4th Generation

6. Which of the following **is not** an advantage of using robotics in industry?

(1) 24 hours availability (2) Incurring high initial cost

(3) Reduction in production cost per unit of goods (4) High efficiency

7. Which of the following statement/s **is/are** a benefit of a learning management system to students?

A Being able to study from a convenient location
B Assignments can be done at home and uploaded instantly
C Discussing the subject matter through the forum

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

8. Which of the following is **not** a key component of a graphical user interface?

(1) Windows (2) Menu (3) Pointer (4) Folder

9. Computers we use at present are classified in different ways. Following are some statements related to computer classification.

A Large numbers of users connect to a single computer using a large number of terminals and exchange data and information is related to the mainframe technology.
B Micro computers used in very complex tasks such as scientific and engineering work are more powerful, expensive and large in size.
C Mainframe computers and mini computers known as server computers are not in use at persent

Which of the following answer **is incorrect** regarding the above statement/s?

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

10. Among the given computer input devices, select the answer that contains only pointing devices.

(1) Mouse, Light pen, Joystick (2) Touch screen, Light pen, Keyboard

(3) Mouse, Barcode reader, Joystick (4) Web camera, Light pen, Joystick

11. Which of the following technical device is an example of a hybrid computer?

(1) FAX Machine (2) ECG Machine (3) ATM Machine (4) CDM Machine

12. Select the option which contains the word corresponding to the number in the blank of the following passage, respectively

The input data and information first goes to .....1..... It is then sent to.....2.....for processing by temporarily storing it there. After processing they are directed to.....3.....devices through .....4.....

(1) CPU, RAM, RAM, Output Devices (2) RAM, CPU, RAM, Output Devices

(3) RAM, RAM, CPU, Output Devices (4) Output Devices, CPU, RAM, RAM

13. Select the answer which is **not** an advantage of networking from the following answers.

(1) Common use of limited resources
(2) Ability to share data and information in the network
(3) Less security for data
(4) Only authorized customers can connect to the server computer

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14. Which of the following answer is correct regarding the secondary storage of a computer system?
    A It is a Permanent memory which is also known as CPU memory
    B Magnetic media devices can be used for secondary storage
    C Data of the computer is not removed when it is turned off
    (1) A and B only (2) B and C only (3) A and C only (4) All A, B and C

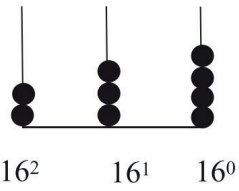
15. Which of the following is a correct answer for the Most Significant and Least Significant values of 0.450?
    (1) 4 and 0 (2) 4 and 5 (3) 5 and 4 (4) 0 and 4

16. Which of the following is a correct statement regarding secondary storage media?
    (1) CDs exist in three ways and their storage capacity varies
    (2) DVDs can store 4.7 to 9.4 gigabytes capacity and are available in three forms
    (3) Blu-ray discs can store up to a maximum capacity of 25 gigabytes and are currently not in use
    (4) The storage capacity of CDs and DVDs are the same

17. Which is the correct answer that illustrates the function of a router used in computer networking?
    (1) The main device which is used to build a connection between two or more computers
    (2) The main device that builds the connection between two or more computer networks
    (3) The main device that performs the data conversion functionality
    (4) The main device that operates the computer network and installs the network operating system.

Calculator frame of Hexa decimal is given below. Answer questions 16 and 17 based on the value generated by that calculator.

18. What is the correct decimal value that is equivalent to the value denoted by the calculator frame of hexa decimal?



    (1) 564
    (2) 560
    (3) 1074
    (4) 273

19. What is the correct octal value that is equivalent to the value denoted by the calculator frame of the hexa decimal?
    (1) 1066 (2) 1065 (3) 1165 (4) 1064

Consider the following statements.

20. A The smallest unit used to store data on a computer is the kilobyte
    B Half of a byte is known as a bit
    C 2^{10} kilobytes (KB) is equivalent to one megabyte (1MB)

What is the correct statement/s?
    (1) A and B Only (2) A and C Only (3) C only (4) All A, B and C

21. Consider the number 24_X. The x is the base value of the number system. What is the correct answer to the number system/s that number 24_X belongs to?
    (1) Only decimal (2) Only octal
    (3) Only decimal and octal (4) Only octal, decimal and hexa –decimal

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22. 1 gigabyte (1GB) is equal to,

A 1024 kilo bytes
B 1024 megabytes
C $2x\,2^{10}$ megabytes
D 2^{10} megabytes

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

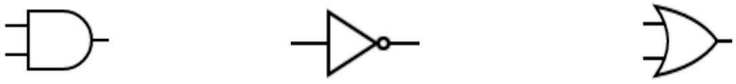
23. Consider the following expressions related to the BCD code system.

A One digit is represented in four bits.
B 00111100 is a correct BCD code.
C The decimal value of the BCD code 00111001 is 39

Which one is the correct answer?

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

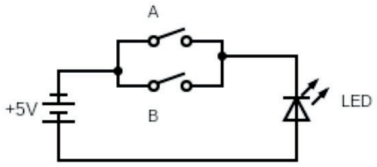
24. Select the answer which contains the logic related to the given logic gates respectively.



A B C

(1) AND, OR and NOT
(2) OR, AND and NOT
(3) AND, NOT and OR
(4) NOT, OR and AND

25. What is the logic represented by the given electronic circuit?



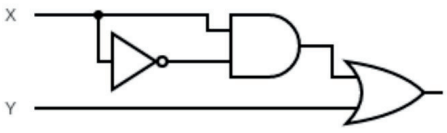
(1) AND Logic
(2) OR Logic
(3) NAND Logic
(4) NOR Logic

26. A truth table is given below with two inputs A and B and an output called Q. What is the answer with the relevant logic gate for the given truth table?

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0

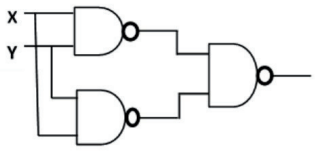
(1) OR Logic
(2) NOR Logic
(3) NAND Logic
(4) AND Logic

27. If the output of the following logic gate is to be 0, what will be the input values for to X and Y?

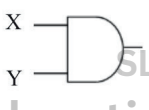


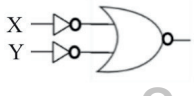
(1) 0 and 1
(2) 1 and 1
(3) 0 and 0
(4) All of the above are correct

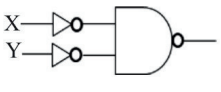
28. Which logic circuit does not have the same output as the output of the circuit given below?



(1) 

(2) 

(3) 

(4) 

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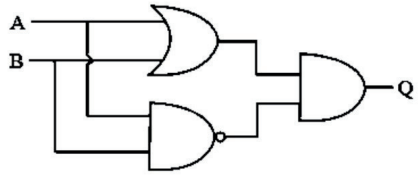
29. What is the answer with the values matching the positions X, Y and Z in the given incomplete truth table with respect to the given logic circuit?



A	B	Q
0	0	0
0	1	X
1	0	Y
1	1	Z

(1) X = 0, Y = 1 and Z = 1
(2) X = 0, Y = 0 and Z = 1
(3) X = 0, Y = 0 and Z = 0
(4) X = 1, Y = 1 and Z = 0

30. Select the correct answer with examples of operating systems only
(1) Windows 10 , Ubuntu , Linux
(2) Edge , Android , Mac Os
(3) Access , Ubuntu , Android
(4) Excel , Mac Os, Linux

31. Select the answer that only shows the functions of an operating system.
(1) File Management, Memory Management, Process Management
(2) Database Management, File Management, Memory Management
(3) Process Management, Memory Management, Database Management
(4) File Management, Database Management, Process Management

32. Below are three statements made by a student regarding the disc partitioning?
A - Able to store files on the computer separately
B - Able to install more than one operating system on the computer
C - For requirements of the operating system
Select the correct statement,
(1) A and B only (2) B and C only (3) A and C only (4) All A, B and C

33. What is the facility provided by the word processing software, to protect a document prepared by it from unauthorized access?
(1) Use of Passwords
(2) Use of mail merge
(3) Use of thesaurus
(4) Document Protection

34. What is the memory used to store basic input output system (BIOS) for booting up the computer?
(1) Random Access Memory (RAM)
(2) Read Only Memory (ROM)
(3) Cache Memory
(4) Registers Memory

35. Consider the following statements regarding inserting a table into a document.
A - Unnecessary rows can be deleted and can not delete columns
B - One cell can be prepared by merging a range of cells
C - Can change the orientation of words contained in a cell
Which of the following answer contains the functions that can be done using word processing software?
(1) A and B Only (2) B and C Only (3) A and C Only (4) All A, B and C

36. Which of the following answer contains the correct short cut keys to be used to obtain a new document and save a prepared document?
(1) Ctrl+O and Ctrl+C
(2) Ctrl+N and Ctrl+O
(3) Ctrl+N and Ctrl+S
(4) Ctrl+S and Ctrl+N

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37. What is the tool that is used to prepare columns in designing newspapers and magazines?

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

38. The facility which can be received by a user of word processing software by changing the orientation of a page is?

(1) Edit the settings of margins

(2) Change the direction of a text horizontally or vertically

(3) Change the size of a page

(4) Change the orientation of a page as portrait or landscape

39. Consider the equation of $y= ax^2+bx+c$. Which of the following tool can be used in a word processing software to adjust the number 2 of this equation to the mode shown?

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

40. Some menu headings in a word processing software are listed in Column A and a few sub menus are listed in Column B, The correct match between Column A and Column B is,

A	B
A1- Insert	B1-Table, Picture, Chart, Header, Footer
A2- Page layout	B2- Print layout, Outline, Zoom
A3- View	B3- Margin, Orientation, Size

(1) A1:B1, A2:B3, A3:B2

(2) A1:B2, A2:B3, A3:B1

(3) A1:B3, A2:B1, A3:B2

(4) A1:B3, A2:B2, A3:B1

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