

බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව மேல் மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province	වර්ෂ අවසාන ඇගයීම ஆண்டிறுதி மதிப்பீடு - 2017 Year End Evaluation	
ශ්‍රේණිය } 10 தரம் } Grade }	විෂයය } Information and Communication Technology I , II பாடம் } Subject }	පත්‍රය } I வினாத்தாள் } Paper }
		කාලය } 03 Hours காலம் } Time }

Important:

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

1. Consider the following statements on quality information.
 - A. Only relevant information is forwarded.
 - B. Information is not up-to-date.
 - C. Information is processed using complete data.
 Which of the above statement/s is/are true?
 (1) A Only (2) B only (3) A and B only (4) All A, B and C

2. Which of the following is a service of e-government to citizens (G 2 E)?
 - (1) Facilitating to renew vehicle licenses.
 - (2) Facilitating to register new business.
 - (3) Providing Sri Lanka custom information to India.
 - (4) Providing details of flood relief to government servants.

3. Consider the following statements on “Green Computing Concept”.
 - A. Use of energy with care.
 - B. Discard electronic waste properly.
 - C. Replace old computers in an office with new computers annually.
 Which of the above statement/s is are true?
 (1) A Only (2) B only (3) A and B only (4) All A, B and C

4. Which of the following statements is **Not** true regarding computer evolution?
 - (1) Use of transistors in first generation computers.
 - (2) Use of huge amount of electricity in second generation computers.
 - (3) Use of IC in third generation computers.
 - (4) Fifth generation computers are based on artificial intelligence.

5. 35 dengue patients were reported out of 150 members from 24 families in “Nisalagama” Gramaseva Niladhari Division. Gramaseva Niladhari of Nisalagama states that highest number of patients, 14344 numbers was reported in month of May during the period from January to May in Sri Lanka, which is 22.42% .
 Which of the following contains data and information accurately?
 - (1) 35 members of Nisalagama faced difficulties, 14344 Dengue patients are reported in Sri Lanka.
 - (2) Dengue patients are reported in Sri lank , the average number of patients in may is 22.42%
 - (3) Highest number of patients were reported in May, the average number of patients in May is 22.42%
 - (4) 14344 Dengue patients are reported in Sri Lanka, 35 members of Nisalagama faced difficulties.

6. Consider the following statements.

- A. Use of robot technology in harvesting.
- B. Use of automatic pest control machine to prevent mosquito breeding.
- C. Use of meteorological measuring devices to gage rainfall and speed of wind.

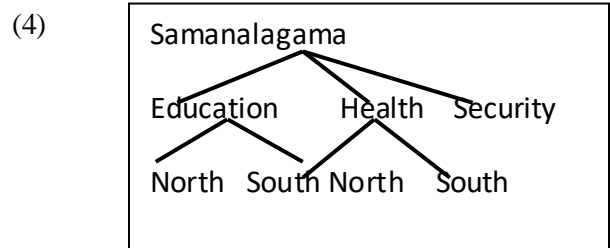
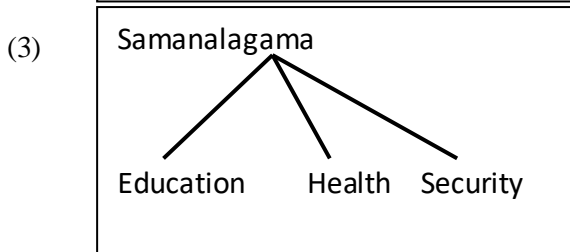
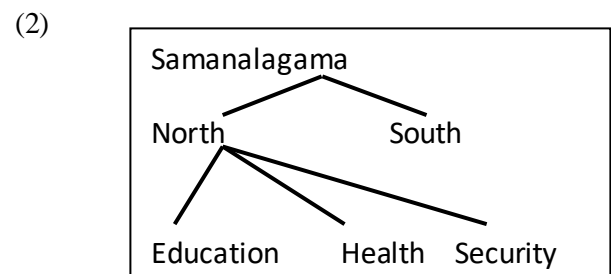
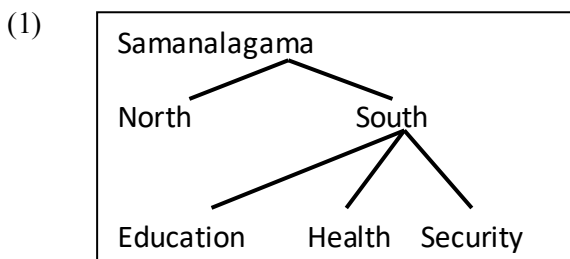
Which of the above technology/technologies help advancement of agriculture?

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

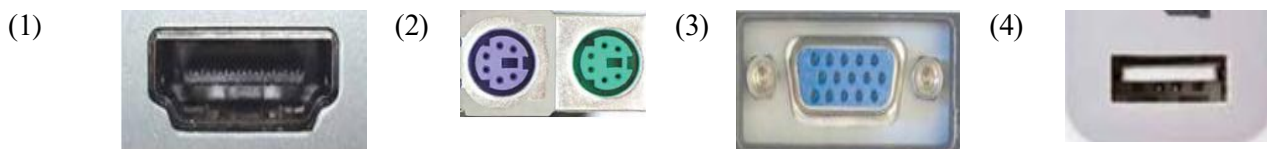
7. Grama Niladhari of Samanalagama store data of her division. The data is classified as Samanalagama North, Samanalagama South. Data of government servants of Samanalagama north is under the headings of education, health and security.

Which of the following structure is suitable for her file?

(Samanalagama North- North , Samanalagama South- South, Field of Education - Education, Field of Health- Health, Security division - Security)



8. Which of the following port of laptop computers can be connected to a multimedia, computer screen, Digital T.V and digital sound systems?



9. Which of the following is **not** an advantage of computer networking? Ability to share.

- (1) Ability to control software centrally.
- (2) Necessity of a trained person to control network.
- (3) Ability to access data and document online at any time by the user.

10. Consider the following statements.

- A. Twisted pair cables are an example for data transmission pilot media.
- B. Light is used as data transmission media of Optical Fiber cable.
- C. Data transmission speed of twisted pair cable is higher than fiber optic cables.

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

11. Consider the following values of different number systems.

110101_2 421_{10} DB_{16} 645_8

Which of the following statement is true?

- (1) DB_{16} is the highest value. (2) $110101_2 > 421_{10} > DB_{16} > 645_8$
 (3) 421_{10} and 645_8 are equal in value. (4) All numbers are different to each other in value.

12. Which of the following is equal to 'CAD', if 'B' is represented with 1000010_2 ?

- (1) $1000100_2, 1000001_2, 1000011_2$ (2) $1000011_2, 1000001_2, 1000100_2$
 (3) $1000011_2, 1000100_2, 1000001_2$ (4) $1000001_2, 1000011_2, 1000100_2$

13. Which of the following is equal to 765_{10} in BCD?

- (1) 10110111 (2) 011101100101
 (3) 111110101 (4) 010101100111

14. Which of the following contains the storage-sizes in ascending order?

- (1) Registers, Flash drive, Hard disk, Tape (2) Tape, Hard disk, Flash drive, Registers
 (2) Registers, Tape, Flash drive, Hard disk (4) Registers, Flash drive, Tape, Hard disk

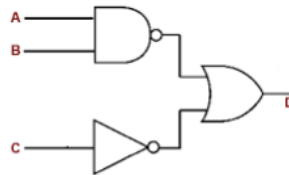
15. Which of the following/s is/are equal in value to $48A_{16}$?

A. 1162_{10} B. 010010001010_2 C. 2212_8

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

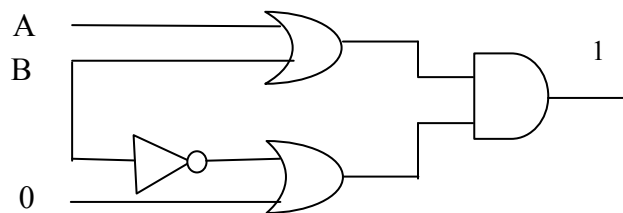
16. Which of the following is the output of the circuit?

- (1) $\overline{A} \cdot \overline{B} + \overline{C}$
 (2) $\overline{A} + \overline{B} \cdot C$
 (3) $\overline{A} \cdot \overline{B} + C$
 (4) $\overline{A + B} \cdot \overline{C}$

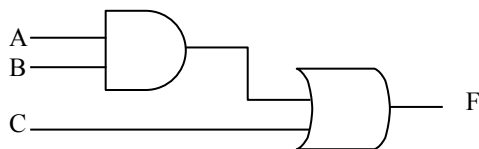


17. Which of the followings are the inputs when the output is equal to 1?

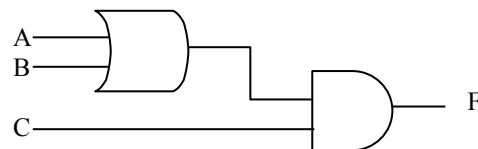
- (1) $A = 1, B = 0$
 (2) $A = 1, B = 1$
 (3) $A = 0, B = 0$
 (4) $A = 0, B = 1$



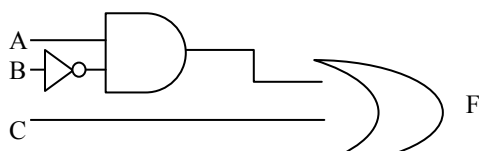
18. Which of the following logic circuit matches the Boolean expression $F = A \cdot B + C$



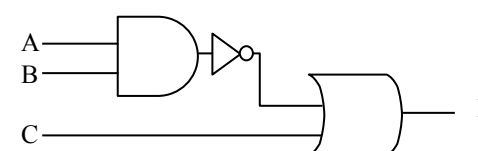
(1)



(2)



(3)



(4)

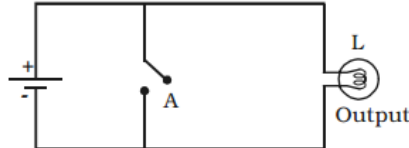
19. Which of the following logic gate matches the truth table give below?

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

A	B	C
0	0	1
0	1	1
1	0	1
1	1	0

20. Which of the following logic circuit matches the electric circuit?

- (1) AND
- (2) NOT
- (3) NOR
- (4) NAND



21. Which of the following contains only operating software?

- (1) MS DOS, Apple, Mac OS, Ubuntu
- (2) Ubuntu, Linux, Windows, Mac OS
- (3) Android, Linux, Apple, Dos
- (4) Apple, C+, Java, Windows

22. The following statements were written by a student. Which one/s of them is / are true?

- A. An operating system that can perform many tasks simultaneously is called multi tasking.
- B. The hard disk needs to be formatted before installing an operating system.
- C. There is utility software that can compress high capacity files into low capacity files.

- (1) Only A is true.
- (2) Only B is true.
- (3) Only C is true.
- (4) All A, B and C are correct.

23. Kasun says that the operating system installed in his computer, provides a user friendly graphical user interface. Which of the following components facilitates user - friendliness?

- (1) cursor, pointer, window, work sheet
- (2) window, cursor, Menu, pointer
- (3) window, operating environment, Menu, cursor
- (4) window, cursor, operating environment, work sheet

24. Consider the following table containing statements on hardware management by an operating system.

	The way how hardware is management		Primary task.
P	file management	K	all input data streams to processor is regularized.
Q	device management	L	controls effect of malware .
R	memory management	M	helps to create folders and delete unwanted folders.
S	security management	N	control output devices using drivers/application software.

Which of the following contains the accurate combinations?

- (1) P - M, Q - N, R - K, S - L
- (2) P - M, Q - K, R - N, S - L
- (3) P - N, Q - M, R - K, S - L
- (4) P - L, Q - N, R - K, S - M

25. is a word processing that is compatible with cloud computing.

- (1) Open office.org writer (2) King soft office writer
 (3) Google Docs (4) Microsoft Word

26. Which of the following icon of word processing software is used for increasing indentation?

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

27. Which of the following matches the formats marked 1 2 3 over the text given below?

• “Burning of ¹**fuel** released CO₂ to the *environment*”

- (1) Lowercase, Bold, Font face (2) Italic, Superscript, Font face
 (3) Bold, Subscript, Italic (4) Font Color, Subscript, Font size

28. Consider the following statements on short cut keys and their tasks.

- A. Shift + End is used to point the cursor to the end of document.
 B. Ctrl + A is used to select whole document.
 C. Ctrl + H is used to invoke Find & Replace Dialog Box.

Which of the above is/are true?

- (1) A only. (2) B only. (3) A and B only. (4) B and C only.

29. Which of the following function is used to calculate the number of cells, containing values?

- (1) AVERAGE (2) COUNT (3) SUM (4) MAX

30. Which of the following cannot be performed, using electronic spreadsheet?

- (1) Filter relevant data. (2) Check validity of data.
 (3) Display data sequentially. (3) Create complex graphics.

31. Which of the following is displayed in the cell, when =4*3+2 is entered?

- (1) 10 (2) 14 (3) 20 (4) 66




32. Which of the following is displayed? Which of the following is displayed in the cell, when =(2*3)^2 is entered?

- (1) 18 (2) 2 (3) 36 (4) 81

33. Which of the following shortcut keys can be used to open an e-presentation when one presentation is already open?

34. Consider the following Icon and their tasks.

- (1) Ctrl + N (2) Ctrl + M (3) Alt + N (4) Alt + M

A. 	Custom slide show
B. 	Slide show
C. 	Slide show from beginning

Which of the above is/are correct combination/s?

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

35. Which of the following is a not a common trait of presentation software?

- (1) To organize data.
- (2) Enable user to do more with less effort.
- (3) Provides opportunity to organize hard ware.
- (4) Enable a user to create an animated presentation to present.

36. Consider the following statements.

- A. Clip art can be inserted in to e-presentation.
- B. Slide background can be included different colors, shapes and pictures.
- C. Only shapes on a slide can be animated out of text, shapes and images.

Which of the above statement/s is/are true?

- (1) A only.
- (2) B only.
- (3) A and B only.
- (4) B and C only.

37. Which of the following is not a trait of a Database?

- (1) Avoiding data redundancy.
- (2) Data consistency.
- (3) Increment of data validity.
- (4) Increment of data efficiency.

- Use the following tables to answer questions 38 & 39.

Book Table

Book_ID	Book Name	Borrowed
B001	Manuthapaya	True
B002	Himagiriarana	False
B003	Gamperaliya	True

Borrowing Table

Date	Book_ID	S_ID
2017/02/24	B002	S003
2017/03/01	B001	S002
2017/03/05	B003	S001
2017/03/10	B002	S002

Student Table

S_ID	Student Name
S001	Gimhani
S002	Kusal
S003	Vishwa

38. Which of the following fields are suitable as primary key?

- (1) Book Table - Book_ID and Borrowing Table - S_ID
- (2) Book Table - Book_ID and Student Table - S_ID
- (3) Borrowing Table Book_ID and Borrowing Table - S_ID
- (4) Student Table - S_ID and Borrowing Table - S_ID

39. Which of the following is the number of fields and records in browsing table respectively?

- (1) 4 and 3
- (2) 3 and 4
- (3) 2 and 3
- (4) 3 and 2

40. Consider the following scenario.

The department of registration issues an ID card to each citizen for identification.

Which relationship of the following matches the above scenario, that's the relationship between the ID card and the person?

- (1) One to one
- (2) One to many
- (3) Many to many
- (4) No relationship