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மேல் மாகாணக் கல்வித் திணைக்களம்
Department of Education - Western Province

වර්ෂ අවසාන ඇගයීම
ஆண்டிறுதி மதிப்பீடு - 2020
Year End Evaluation

ශ්‍රේණිය தரம் } 11 Grade	විෂයය பாடம் } Information and Communication Subject } Technology I, II	පත්‍රය வினாத்தாள் } I Paper	කාලය காலம் } 03 hour Time
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Important

- Provide answers to all the Questions.
- Provide answers to question number 01 to 40 by selecting the correct answer from the given choices, (1, 2, 3 and 4)
- Cross out (*) the correct circle on the given answers script relevant to the questions.

- (01) Which answer includes only optical media devices out of the following secondary storage devices?
1. CD, Digital Multiple Disc (DVD), Secure Digital Card (SD Card).
 2. CDs, DVDs, Blu-ray Discs (BDs).
 3. CDs, Blu-ray Discs (BDs), Secure Digital Cards (SD Cards).
 4. CDs, DVDs, magnetic tapes
- (02) What is the true statement about data transmission medium?
1. An example for unguided media is coaxial cables.
 2. The specialty of the shielded twisted pair cable is the transmission of data by reflection of light.
 3. The fastest data transmission guided media is optical fiber.
 4. In a television remote control, data transmit using radio signals.
- (03) What is a false statement regarding Random Access Memory(RAM)?
1. The main function of RAM is to temporarily retain the data and instructions required by the central processing unit.
 2. This is located on the computer's motherboard and is also known as main memory.
 3. This is volatile memory and is much slower than cache memory.
 4. The data and commands required for the basic operation of the computer are stored in this memory.
- (04) The headline of a newspaper was "..... are used in the fishing industry to identify several places where fish populations are abundant." What is the most appropriate word for the space shown here?
1. Closed Circuit TV camera system
 2. Signal lamps
 3. Sensors
 4. Identity code system
- (05) During a quiz programme, Vikum had the opportunity to choose features of distance education from the following
- A. Being able to carry out their learning activities from school according to a daily schedule.
 - B. Ability to use digital libraries.
 - C. Inability to contact an online teacher.
 - D. Ability to access counseling services.
 - E. Ability to upload answers for assignments online

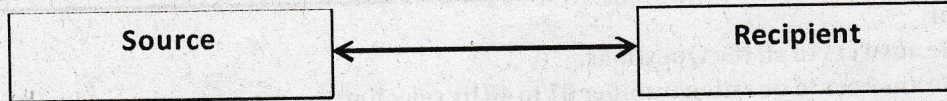
If you are Vikum of the above program, what are the correct characteristics of the distance education you choose?

1. A, B and C.
2. B, C and D
3. A, B and D
4. B, D and E

(06) Which of the following statement is **false** regarding computer ports?

1. The HDMI port is used to connect the computer screen to the multimedia projector.
2. The serial port is used to connect the modem to the computer.
3. Today most printers connect to the computer using USB.
4. VGA port is used to connect both audio and video output devices to a computer.

(07) According to the diagram below, what is the mode of data transmission it displays and select one example for the selected mode.



1. Simplex, Watching television
2. Full duplex, Walkie Talkie
3. Half duplex, telephone conversations
4. Full duplex, telephone conversations

(08) What is the correct answer given when 205_{10} is converted to a hexadecimal and an octal number respectively?

1. 1213_{16} and 255_8
2. DC_{16} and 513_8
3. BD_{16} and 205_8
4. CD_{16} and 315_8

(09) If ASCII value of the letter B is 66_{10} and ASCII value of letter b is 98_{10} , what is the binary representation of the letters G and g according to the ASCII table?

1. 1000111 and 1100111
2. 1100111 and 1000111
3. 1010111 and 1001010
4. 1000011 and 1100010

(10) Select correct statements out of the following.

- A. $5B_{16}$ is equivalent to 1011011
- B. 110111001_2 is equivalent to 661_8 .
- C. 235_{10} is equivalent to EB_{16} .

1. A and B.
2. B and C.
3. A and C
4. All A, B, C

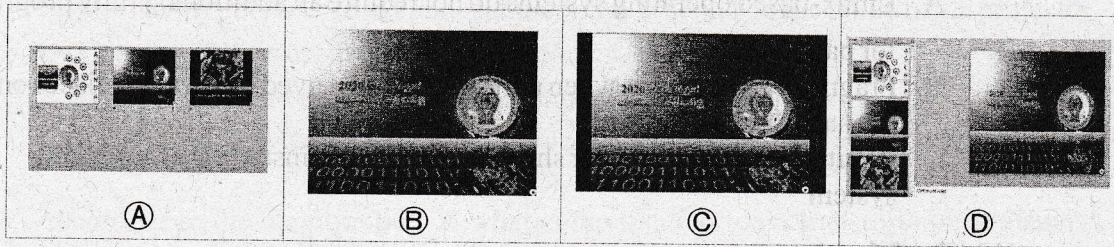
(11) Consider the following statements.

- A. Operating system software can be divided into two parts as applications and system software.
- B. Antivirus software and disk formatting software are application software.
- C. Random access memory is handled by the operating system.

Which of the above statements are correct?

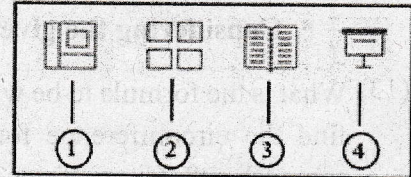
1. A only
2. C only
3. A and B only
4. B and C only

(17) Below are some slides in an e-presentation prepared by Nimali to welcome new students.



In which answer contain correct icons for above slide views?

- (1) A→② , B→④ , C→③ , D→④
 (2) A→② , B→④ , C→③ , D→①
 (3) A→④ , B→② , C→③ , D→①
 (4) A→③ , B→② , C→① , D→④



(18) If the following are the features contained in a quality e-presentation, which of the following statements are true?

P	The font size of a slide must be 15 points or less
Q	When inserting motion pictures and videos, only one of them should be included per slide.
R	It is advisable to have 6-9 lines of text in each sentence.
S	The goal of the audience must be targeted.

- (1) P and Q only. (2) Q and R only. (3) Q, R and S only (4) P, R and S only

- Questions from 19 to 22 are based on some tables of the database of ABC Company. These tables are used to store data on projects to which employees of the organization are attached.

Employee table (includes employee data.)

Employee_no	Employee_name	Address	Tel_no
E001	Nimantha Silva	29, Galle Road, Panadura	0715689231
E002	Iranganie Jayawardena	2/A, Tissa Avenu, Mt. Lavinia	0772892525
E003	Shenali Perera	92B, Vijaya Road, Dehiwela	0772593519
E004	Ghanesh Silvaraja	256A, Terrance Housing Scheme, Wellawatta.	0769812651
E005	Isha Mohomed	36/12, Temple Road, Maradana	0785912463

Project table (includes details about projects implement within the company)

Project no	Project name
P001	Crypto
P002	Felix
P003	bitcoin
P004	trulia

Employee_assign table (include details about employees assign to projects)

Employee no	Project no	Start date	End date
E001	P003	2020/01/10	2020/07/25
E003	P001	2020/01/11	
E005	P004	2020/01/11	2020/06/10
E002	P003	2020/01/12	2020/07/25
E001	P002	2020/02/10	
E005	P001	2020/02/10	

(19) How many fields are in the employee table?

- (1) 2 (2) 3 (3) 4 (4) 5

- (20) What is an example for a foreign key in the database?
- (1) Employee_no in Employee table
 - (2) Employee_no in Employee_assign table
 - (3) Start_date in Employee_assign table
 - (4) Project_no in Project table
- (21) Who works in the project "Felix" ?
- (1) Isha Mohamed
 - (2) Iranganie Jayawardena
 - (3) Shenali Perera
 - (4) Nimantha Silva
- (22) After recruiting a new employee to the company, he will be attached to an existing project. What are the tables (s) that need to be updated for this purpose??
1. Employee table and Project table
 2. Project table and Employee_assign table
 3. Employee table and Employee_assign table
 4. Employee table, Project table and Employee_assign table
- (23) Which of the following is correct regarding computer based information systems?
- A. Computer-based information systems never cause errors.
 - B. These systems take very little time to process information.
 - C. Data on a computer-based information system is less secure than on a manual system due to unauthorized access, computer viruses, etc.
- (1) A only
 - (2) B only
 - (3) A and B only
 - (4) All A, B and C
- (24) Which of the following statement is **false** regarding software system testing methods?
- (1) The system test, tests the new system's interaction with the operating system.
 - (2) During unit testing, system components are tested separately, and this is the first test performed.
 - (3) In the overall test, tests whether desired output can be obtained by giving required inputs.
 - (4) In the acceptance test users are allow to use the new system.
- (25) The HTML source code of web page shown in Figure 1, is shown in Figure 2, without the tags labeled by 1 to 3

Quarantine STOP COVID-19	<code><center><h2><①> Quarantine</①> STOP <②> <③> COVID - 19 </③></h2></center></code>
Figure 1	Figure 2

In which choice includes the correct order of tags required for labels ①- ③ shown in figure 2?

1. U, B, S
 2. EM, P, S
 3. EM, BR, S
 4. I, BR, STRONG
- (26) `<table border="1" width="100" height="50" cellpadding="5" cellspacing="5" bordercolor="cyan" bgcolor="Red">`

How many attributes are found in the above HTML code segment related to Table tag?

1. 5
2. 7
3. 14
4. 15

- The IT teacher has decided to send the assignments to his students via e-mail during the holidays and he intends to send a copy to the teacher in charge of the section and another copy to the principal so that the children cannot see it. Answer questions 27 to 29 accordingly.

(27) Where should the e-mail address of the teacher in charge of the section be mentioned in the e-mail message?

- (1) To (2) Cc (3) Bcc (4) Subject

(28) Where should the e-mail address of the principal be mentioned in the e-mail message?

- (1) To (2) Cc (3) Bcc (4) Subject.

(29) What is used to attach assignments prepared as a Pdf File with the e-mail?

- (1) Subject (2) Attachment (3) Draft (4) Sent

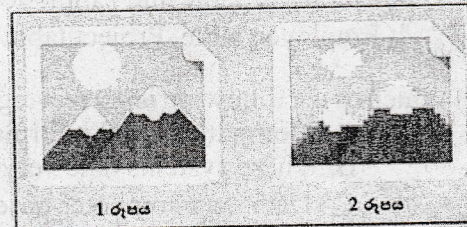
(30) Consider the following statements about the diagram on the right.

A. Figure 1 is created from vector media and Figure 2 is created from raster media.

B. Figure 1 is created from raster media and Figure 2 is created from vector media.

C. You can use Corel Draw software to create image 1 and GIMP software to create image 2.

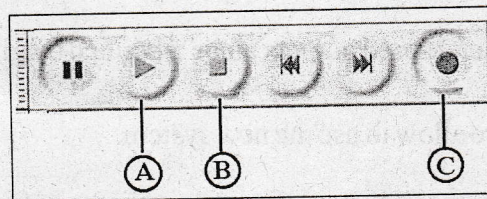
D. You can use GIMP software to create image 1 and Corel Draw software to create image 2.



Which of the above statements are true?

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

(31) Below you see a Transport toolbar of an audio editing software.



Select the choice in which, labels A, B and C are named in correct order .

- (1) Play, Stop, Record. (2) Select, Crop, Stop.
 (3) Stop, Select, Crop. (4) Record, Play, Stop

(32) Basic elements of a digital graphic are .

- A. Pixels. C. size
 B. Resolution. D. colour

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

(33) What is the answer that contains only the actions that can be taken for logical security?

- Software Firewall, Password, Data Backup
- Uninterruptible Power Supply (UPS), Password, Surge Protector
- Data Backup, Hardware Firewall, Uninterruptible Power Supply (UPS)
- Surge Protector, Closed Circuit Television (CCTV), Hardware Firewall

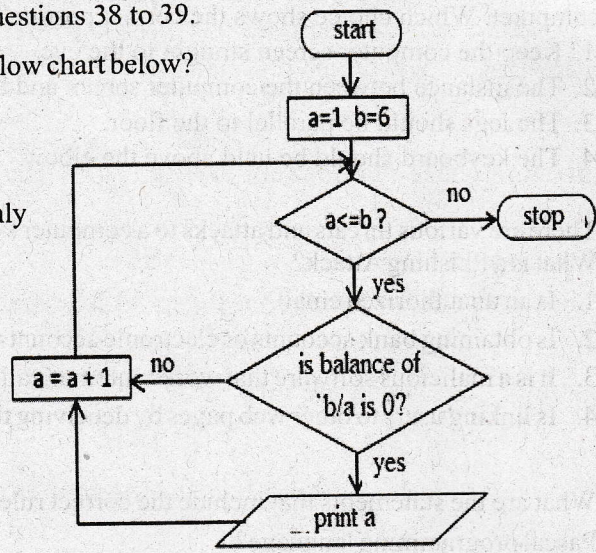
Based on the flow chart below for questions 38 to 39.

(38) Which control structures are used in the flow chart below?

1. Sequence and selection only.
2. Sequence and repetition only
3. Selection and repetition only
4. Sequence, selection, and repetition only

(39) What is the output of the flow chart?

1. 1 2 3 4 5 6
2. 1 3 5
3. 2 3 6
4. 1 2 3 6



(40) What is the output of the following logic circuit

1. $A+B+C+\bar{D}$
2. $A+B+C.\bar{D}$
3. $A.B.C+\bar{D}$
4. $(A+B+C).\bar{D}$

