

**සබරගමුව පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව**  
**சபரகமுவ மாகாண கல்வித் திணைக்களம்**  
**Sabaragamuwa Provincial Department of Education**

**තෙවන වාර පරීක්ෂණය 2020**  
**மூன்றாம் தவணைப் பரீட்சை 2020**  
**Third Term Test 2020**

**11 ශ්‍රේණිය**  
**தரம் 11**  
**Grade 11**

**තොරතුරු හා සන්නිවේදන තාක්ෂණය I**  
**தகவல் தொடர்பாடல் தொழினுட்பவியல் I**  
**Information and Communication Technology I**

**පැය එකයි**  
**ஒரு மணித்தியாலம்**  
**One hour**

Note :

- i. Answer **all** questions.
- ii. In each of the questions 1 to 40 , pick one of the alternatives (1), (2), (3), (4) which you consider as correct or most appropriate.
- iii. Mark a cross ( x ) on the number corresponding to your choice in the answer sheet provided.
- iv. Time : 1 Hour

01. The incorrect statement/s about “ Data “ and “ Information ”,
- a. Data can be used for taking decisions but Information can't be used .
  - b. Both Data and Information can be used for taking correct decisions .
  - c. Only Information can be used for taking correct decisions .
- i) Only a      ii) Only b      iii) Only a & b      iv) All a, b & c
02. Supun scored 9 As for the last year's G.C.E Ordinary Level exam and he was congratulated by all his relatives and friends for his achievement but now no one congratulates him anymore. Which of the following characteristic of information is described in the above statement ?
- i) Relevancy      ii) Trustworthiness      iii) Timeliness      iv) Accuracy
03. Two special characteristics of Third Generation Computers are ,
- i) Use of micro processor and small portable peripherals .
  - ii) Use of Assembly Language and punch cards.
  - iii) Use of keyboards and monitors.
  - iv) Use of network devices and storage devices with semiconductors.
04. The following figure 01 depicts the graphical interpretation of a sound wave released by a speaker. What type of a signal does this graph interpret ?
- i) Analog signals
  - ii) Numerical signals
  - iii) Digital signals
  - iv) Hybrid signals

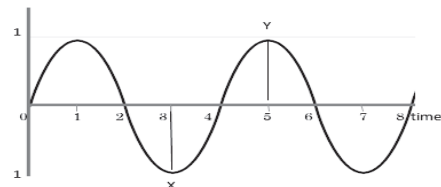



Figure 01

06. A student was editing a document opened in the computer while connected to a pen drive where the document has been stored. The computer memory that is holding the opened document will be,

- i) Hard Disk
- ii) Random Access Memory (RAM)
- iii) Pen Drive
- iv) Read Only Memory (ROM)

07. When connecting the computer devices, keyboard will be connected through the .....a....., computer will be connected to the computer network through the .....b....., multimedia projector will be connected through the .....c..... Select the correct order of appropriate terms for the blanks above.

- i) HDMI Port, Universal Serial Bus (USB) Port, RJ 45Port
- ii) Universal Serial Bus (USB) Port, RJ 45 Port, HDMI Port
- iii) PS /2 Port, Universal Serial Bus (USB) Port, HDMI Port
- iv) HDMI Port, RJ 45 Port, Video Port

08.   The transmission media used for data transmission in these two media is,

- i) Fiber Optics
- ii) Radio Waves
- iii) Micro Waves
- iv) Infra-Red

09. Consider the following statements regarding the computer monitor.

- a) Light Emitting Diode (LED) Monitors consume more electricity than that of Liquid Crystal Display (LCD) Monitors.
- b) Response Time of Cathode Ray Tube (CRT) Monitor is higher than that of the Light Emitting Diode (LED) Monitors.
- c) Modern mobile phones use the Cathode Ray Tube technology .

Correct statement/statements regarding the above statements is/are,

- i) Only a
- ii) Only b
- iii) Only a and b
- iv) All a, b and c

10. It has been decided to prepare the letter of notification that makes the parents aware of the grade 11 parents-teachers meeting to be held on coming Friday using the Word Processing Software. What is the facility provided by the Word Processing Software to send the same letter to different addresses ?

- i) Margin
- ii) Translate
- iii) Merge Cells
- iv) Mail merge

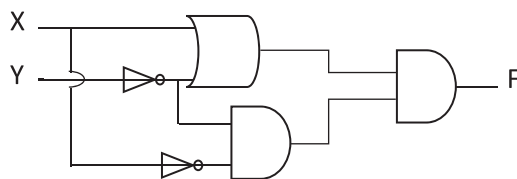
11. Which network topology is being depicted in the following figure 02 ?

- i) Bus Topology
- ii) Tree Topology
- iii) Ring Topology
- iv) Star Topology



Figure 02

12. The answer containing only Volatile Memory devices is,
- Random Access Memory (RAM), Read Only Memory (ROM), Cache Memory
  - Random Access Memory (RAM), Read Only Memory (ROM), Hard Disk
  - Random Access Memory (RAM), Compact Discs (CD), Flash Drive
  - Random Access Memory (RAM), Cache Memory, Register Memory
13. Which of the following represents the correct order of bit numbers used in interpreting one figure in the Unicode, BCD, ASCII, EBCDIC code systems?
- 8,4,7 and 16
  - 16,8,4 and 4
  - 16,4,7 and 8
  - 7,7,7 and 7
14. Hirusha is a student who sat for GCE Ordinary Level Examination last year and expects to follow Advance Levels in the technology subject stream. When choosing subjects for him, Science for Technology (SFT) is a compulsory subject while either Engineering Technology (ET) or Bio System Technology (BST) has to be chosen. He would definitely choose Information and Communication Technology (ICT). Which of the following Boolean expression interprets the above phenomenon most accurately ?
- SFT AND ICT OR (ET AND BST)
  - SFT AND ICT AND (ET OR BST)
  - SFT AND (ET AND BST AND ICT)
  - SFT AND (ET OR BST OR ICT)
15. In the following digital circuit shown in figure 03, for the output of F to become 0 the X and Y input values should be,



- 1, 1
- 0, 0
- 1, 0
- 0, 1

Figure 03

16. The following figure 04 shows the bulb “L” which is controlled by the upper and lower, A and B switches of a house staircase. Function of the switches is given below.
- The bulb “L” lights up when the switch A is OFF and switch B is OFF.
  - The bulb “L” does not light up when the switch A is ON and switch B is ON.
  - The bulb “L” lights up when A and B switches are at their opposite functions
- The logic gate described in the above circuit is,

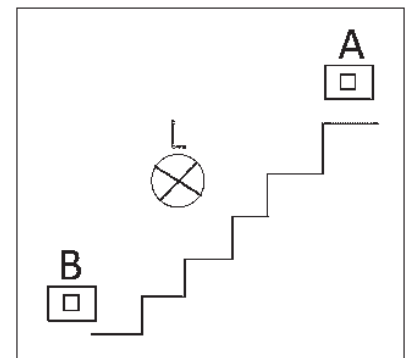


Figure 04

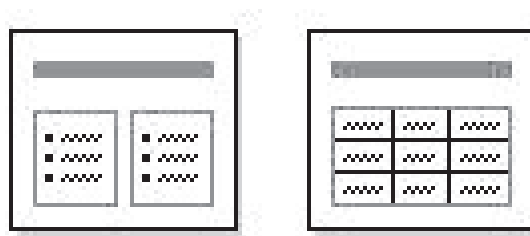
- XOR
  - NAND
  - NOR
  - NOT
17. The correct statement with the appropriate resemblance of 1 PB is,
- 1024X1024KB
  - $2^{30}$  MB
  - $10^6$  KB
  - $2^6$  MB
18. Which of the following is equivalent to the  $691_{10}$ ?
- $1010110010_2$
  - $1010110000_2$
  - $2B3_{16}$
  - $1262_8$

19. Which bit combination interprets the word “COVID” in ASCII values?
- 1000011 1001111 1010110 1001001 1000100
  - 1000111 1101111 1110110 1101001 1100100
  - 1000011 1101110 1110110 1101001 1100100
  - 1000111 1101111 1110010 1101001 1100100
20. Dharani, Hirun and Mihin are three siblings of the same family. Their ages are respectively  $12_{16}$ ,  $01111_2$ ,  $22_8$ . Consider the following statements regarding their ages.

- Hirun is the youngest of the family.
- Dharani and Hirun are twins.
- Dharani and Mihin are twins.
- Mihin is elder than Hirun by three years.

Which statements are true from the above statements?

- A, D
  - A, B
  - A, C, D
  - B, C, D
21. Which tool of the following can be used to change the first style into the second style in a powerpoint slide?



- Slide Design
- Slide Sorter
- Slide Layout
- Slide View

Figure 05

22. Ctrl + Home shortcut key is used in the Excel software for,
- Moving instantly to the last cell.
  - Moving instantly to the first cell of the work sheet.
  - Moving to the A1 cell at any time.
  - Closing the excel sheet.
23. The answer when  $=3^2/(34-2^5)*6$  is entered into an excel cell is,
- 0.75
  - 18
  - 27
  - 8
24. The value that will be shown in the A3 cell of the following part of the excel sheet, when the formula  $=\text{SUM}(\text{MAX}(\text{A1:E1}), \text{MIN}(\text{A1:E1}))$  is entered is,

	A	B	C	D	E
1	100	120	50	30	200
2					

- 80
- 300
- 230
- 170



- The following shows data extracted from Sampath's business of making and distributing short eats. Answer the 25<sup>th</sup> and 26<sup>th</sup> questions related to the below given tables .

Product Table

Pro_ID	Pro_Name
0001	Cutlet
0002	Roll
0003	Tea bun
0004	Egg bun

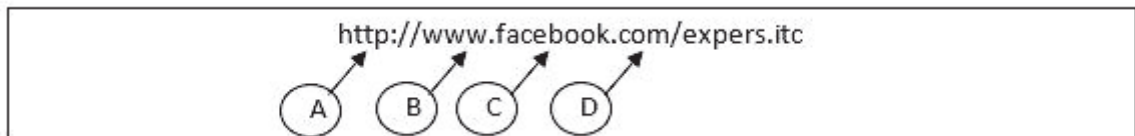
Customer Table

Cus_ID	Cus_Name
C025	Sunil Perera
C026	Ramesh Gamage
C027	Nimal Vithana
C028	Damith Silwa

Order Table

Pro_ID	Cus_ID
0001	C025
0002	C025
0003	C026
0003	C027

25. The primary key fields of the above database is included in the,
- Pro\_ID of the Product Table and Cus\_ID of the Order Table
  - Cus\_ID of the Customer Table and Pro\_ID of the Order Table
  - Pro\_ID of the Product Table and Cus\_ID Customer Table
  - Cus\_ID of the Customer Table and Pro\_Name of the Product Table.
26. The number of Fields and the Records of the Order Table are respectively,
- 5 and 2
  - 2 and 5
  - 4 and 2
  - 2 and 4
27. Consider the below given Uniform Resource Locator (URL)



- Above A, B, C and D depict,
- Hypertext Transfer Protocol (HTTP), Domain Name, Top Level Domain, Resource Folder
  - Hypertext Transfer Protocol (HTTP), World Wide Web (WWW), Domain Name, Top Level Domain
  - World Wide Web (WWW), Domain Name, Top Level Domain, Resource Folder
  - World Wide Web (WWW), Domain Name, Top Level Domain, Resource
28. Which of the following is a false statement regarding the IP addresses?
- A number of computers in the same network can have the same IP address.
  - Every computer connected to internet can be identified uniquely via the IP addresses.
  - IP address is provided by the internet service providers.
  - IP addresses consist of four values from 0-255 which are separated from decimal points.

29. The appropriate HTML code for the below given output is,

Animal	Bird	Cat	Dog
	2 Legs	4 Legs	

i)

```
<TABLE BORDER = "1"
CELLPADDING="5">
<TR>
<TD ROWSPAN="2">Animal</TD>
<TD>Bird</TD>
<TD>Cat</TD>
<TD>Dog</TD>
</TR>
<TR>
<TD>2 Legs</TD>
<TD>4 Legs</TD>
</TR>
</TABLE>
```

ii)

```
<TABLE BORDER = "1">
<TR>
<TD ROWSPAN="2">Animal</TD>
<TD>Bird</TD>
<TD>Cat</TD>
<TD>Dog</TD>
</TR>
<TR>
<TD>2 Legs</TD>
<TD COLSPAN="2">4 Legs</TD>
</TR>
</TABLE>
```

iii)

```
<TABLE BORDER = "1"
CELLPADDING="5">
<TR>
<TD ROWSPAN="2">Animal</TD>
<TD>Bird</TD>
<TD>Cat</TD>
<TD>Dog</TD>
</TR>
<TR>
<TD>2 Legs</TD>
<TD COLSPAN="2">4 Legs</TD>
</TR>
</TABLE>
```

iv)

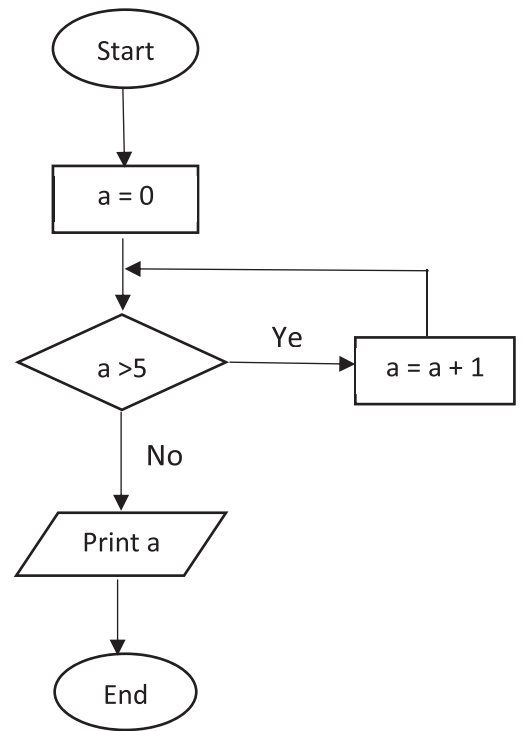
```
<TABLE BORDER = "1">
<TR>
<TD>Animal</TD>
<TD>Bird</TD>
<TD>Cat</TD>
<TD>Dog</TD>
</TR>
<TR>
<TD>2 Legs</TD>
<TD>4 Legs</TD>
</TR>
</TABLE>
```

30. The code for entering a Hyperlink into the HTML document,

- i) <a>http://www.youtube.com </a>
- ii) <a name=" http://www.youtube.com">video</a>
- iii) <a href=" http://www.youtube.com">video.com</a>
- iv) <a href=" http://www.youtube.com">video</a>

31. The output of this following flow chart is,

- i) 5
- ii) 0
- iii) 6
- iv) 4



32. When compiling a certain computer programme, it shows no error but once an input is inserted to the programme it creates a false output. The error in this programme could be,

- i) Logical Errors
- ii) Layout Errors
- iii) Running Time Errors
- iv) Operator Errors

33. How many times do the word “Sri Lanka” is interpreted in the following Pascal code?

```

Var X:integer;
Begin
  X:=1
  While X<=4 DO
    begin
      Writeln('Sri Lanka');
      X:=X+1;
    End;
  Readln( );
End.
  
```

- i) 2
- ii) 3
- iii) 4
- iv) 5

34. Anura is editing a photograph of his along with some other images taken from the internet using the GIMP software. Even if he tried to erase a part of a butterfly from one of the images he couldnot do it. A reason affecting for it could be,

- i) Not choosing the layer of butterfly out of all the layers
- ii) Eraser tool being able to use only for the background images
- iii) The specific image being not saved
- iv) Not selecting the part to be erased before using the eraser tool.

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