

Sirimavo Bandaranaike Vidyalaya

First Term Test - 2023

Grade

11

Information & Communication Technology

Time

3 hours

- Answer all questions.
- In each of the questions 1 to 40, pick one of the alternatives (i),(ii),(iii),(iv) which is correct or most appropriate.

01. Which of the most valuable information of the given examples.

- The date of release of the O/L results.
- Weather forecasting report a year ago.
- Death rate of COVID-19 in the year 2020
- Number of teachers on the staff.

Consider the following statements

- Provide access to the NEMIS information system to get students the information.
- Provide the map of Sri Lanka to travel thought out the country.
- Do registration new hotel businesses online.

Which of the above are related to the service of E-Government

02. i. A and B only ii. B and C only iii. A and C only iv. A,B,C,all

03.A..... is the machine used in hospitals to check the function of the heart. In addition to this, this machine records the electrical impulses using both analogue and digital signals.

Which is the most suitable term which can be used to prescribe the **letter A**

- Cardiac Screen machine
- Electro-encephalography
- Magnetic Resonance Imagine Machine.
- Electrocardiogram Machine

04. Mr perara buys two packets of sugar, one packet of Milk powder, 5 books and pens from the super center. He takes the items to the cache counter where the barcode number is scanned. The cashier **scans the barcode sticker attached to each item to the Information System.** Information System **identifies the item details relevant to the scanned bar card number.** Then the system displays the relevant details on the screen.

Which is the most correct answer that is used to describe the underlined statements?

- Input data, Process and output data
- Process data, data and information
- Input and output data
- Input and Process

05. Identify some services of LMS for students.

- Parents can monitor the students.
- Publishing students' results
- Provide comments through forums
- Submitting questions and getting replies.

- i. A only ii. A,B,C only iii. B and C only iv. C and D only

06. Which of the following correct answer, contains the set of pointing devices?

- i. Web camera, CCTV, Light pen, Joystick.
- ii. light pen, joystick, Touchpad, Touch Board
- iii. light pen, Keyboard, Touchpad, Printer
- ii. Keyboard, mouse, printer, web camera

07. Which of the following is a correct statement given bellow

- i. Punch card system was used for input, process, output and store data in the first generation.
- ii. Assembly language was used in the second and third generations.
- iii. Birth Operating System and keyboard mouse were used in the Third generation.
- iv. LSIC and ULSI were used to process data in the fourth generation

08. Which of the following components is located inside the Central Processing Unit

- i. Register memory
- ii. Cache memory
- iii. Secondary memory
- iv. Main memory

Consider the following statements.

- A – Analogue computer processes continuous data
- B. Super computer share resources among a number of terminals
- C. Laptop computer is an example of a minicomputer type.

09. Which of the correct statement/s regarding classifications of computer

- i. A and C only
- ii. ,B,C only
- iii. A only
- iv. A,B,C all.

10. What are the MSD and LSD of 0256.0160

- i. 0 and 1
- ii. 2 and 1
- iii. 6 and 6
- iv. 2 and 1

11. How many BCD values need to display the year '2023'

- i. 16
- ii. 4
- iii. 8
- iv. 20

*Consider the character value mapping from the ASCII table given below

- D- 68
- d- 100
- g - 103
- O-79
- o-111

12. Which of the following will be the ASCII representation of ' Dog' in binary

- i. 1000100 1101111 1100111
- ii. 100010010011111100111
- iii. 110010011101111 1100111
- iv. 1100100100111111000111

*Consider the following statements

- A -31 Decimal is equivalent to 11111_2
- B - 1101 Binary is equitant to 13_{10}
- C - 58F Hexa Decimal value has 8 binary bits

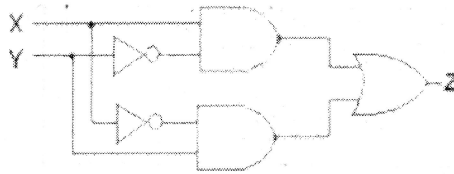
13. Which of the above corrects statements regarding number system?

- i. A and B only
- ii. ,B,C only
- iii. A and Conly
- iv. A,B,C all.

14. Which of the following is the largest?

- i. 85_{16}
- ii. 571_{10}
- iii. 1011110_2
- iv. 111011_2

Consider the following logic circuit and answer question

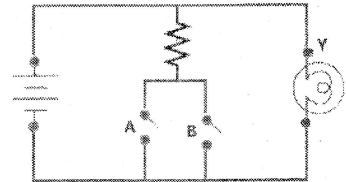


15. Which of the following is an equivalent Boolean expression?

- i. $(x.y) + (x.y)$ ii. $((x+y) . (x+y))$ iii. $((x+y) + (x.y))$ iv. $((x.y) + (x+y))$

16. Which is the corresponding logic gate of the following electronic circuit?

- i. AND Gate ii. NAND Gate
iii. NOT Gate iv. OR Gate



17. A Selection Test Paper consists of Three questions A ,B and C . Test takers are required to answer two questions. Question A is compulsory, and the test takers have to select one from questions b and c. Which is the following represents the selection of questions by a candidate?

- i. A Or (B Or C) ii. A And (C And B) iii. A And (B Or C) iv. A Or (B And C)

18. Which of the following is/are direct function/s of an operating system?

P- Managing User account

Q- Managing the memory of the computer

C – Grammar auto-correction

- i. P only ii. P and Q only iii. Q only iv. Q and C only

19. Which is the correct file system, used in Mobile devices and Window operating systems?

i. FAT 16 and NTFS

ii. FAT 32 and ext4

iii. ReiserFS and NTFS

iv. NTFS and FAT16

20. Select the incorrect statement regarding the operating system

- i. The calculator has a real-time operating system.
ii. GUI operating system uses four components, WIMP
iii. Android operating system is an example of a CLI
iv. Command Line Interface had 'Prompt' where the commands are keyed in using a keyboard.

21. Which is the short key combination to the "Find and replace" word in a document.

- i. Ctrl+A ii. Ctrl+C iii. Ctrl+H iv. Ctrl+X

22. Which is the correct statement/s regarding the Word document

A- It is essential to add a Header Footer and page number.

B- Spelling and grammar errors will be indicated automatically.

C- The number words count of the document will be displayed.

- i. A and B only ii. B and C only iii. A and C only iv. A,B,C all

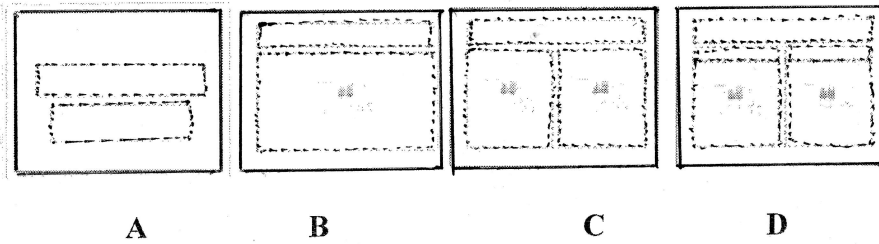
23. Consider the following statements related to the electronic presentation

A. Ctrl+M is the key combination of inserting new slides into the presentation

B. Slide sorter view use to change the order of the slides

C- F5 and Esc tabs are used to view the slide on the full screen

- i. A and B only ii. B and C only iii. A and C only iv. A,B,C all



Consider the above pictures related to the electronic presentation and answer the questions no 24 and 25.

24. What tool in the electronic presentation software can be used to change the styles of the above slides

- i. Slide design ii. Slide shorter iii. Slide view iv. Slide layout

25. Which of the correct statement regarding the above picture.

- i. Picture A contains title only slide while picture B contains title and content slide
 ii. Picture C contains the title and two content slides while Picture D contains a comparison slide
 iii. Picture A contains a title slide while picture D contains two content slide
 iv. Picture B contains the title and content slide while Picture C contains the title and content slide.

Consider the following Excel sheet segment and answer the question no 26,27

26. The cell A4 contains the formula $\$A2+A3$. What will be the output if copy this formula to cell B4?

- i. 5 ii. 6
 iii. 7 iv. 8

	A	B	C
1			
2		3	4
3		2	3
4		5	
5			

27. Which is the incorrect cell range of the cells A2,A3,A4,B2,B3

- i. (A2:A4,B2:B3) ii. (A2:B3,A4) iii. (A2,B2,A3,B3,A4) iv. (A2:B4)

28. What will be the equivalent output of $5+2*3^2/6-3$

- i. 5 ii. 9 iii. 18 iv. 12

Consider the following database tables to answer the question no 29 to 33

S_Name	Ad_No	Ad_date
Kavindu	1001	2018/05/22
Thinula	1002	2018/05/26
Hirusha	1003	2018/05/27

Index_No	Marks
3001	59
3005	78
3008	80

Ad_No	Index_No
1001	3001
1002	3005
1003	3008

29. What is an example of a foreign key in the database?

- i. Index_No in Marks Table iii. Ad_No in Students Table
 ii. Ad_No in Student_Marks Table iv. S_Name in Marks Table

30. Which of the following is the most suitable field as the primary key for the Student table?

- i. Ad_No ii. Index_No iii. S_Name iv. Ad_date

31. What is the most suitable data type for the Marks in Marks_table

- i. Text ii. Number iii. Currency iv. Boolean

32. How many marks have been taken by Thinula and Hirusha respectively?

i.78 ,80

ii.59,78

iii.80,78

iv.59 ,80

33. By mistake Kavidu's mark has been entered wrongly. That mark should be updated as 89 .

Which table/s need to be updated when entering the Kavidu's mark

i. Students_Table

ii.Mark_Table

iii. Students_Table + Mark_Table

iv.Mark_Table + Students_Mark_table

34. What will be the output of the following expression considering the operator precedence of the programming language? $10*4+2*5-2$

i.45

ii.50

iii.52

iv.48

* Consider the following logical expressions

A. $(45 > 45) \text{ AND } (15 > 14)$

B. $(15 < 15) \text{ OR } (18 < 15)$

C. $\text{NOT}((9+5) = (20 \text{ MOD } 11+5))$

35. Which of the following represents the correct outcome of the expressions A, B and C respectively?

i.True , True, True

ii. False, True , False

iii.False , False , True

iv.True , True, False

36.. Which is the correct output of the following Pascal code segment?

```

program name ;
var x:integer;
begin
for x:=1 to 10 step 3
writeln('*');
readln;
end.
    
```

i. *,*,*,*

ii. ***

iii.*****

iv.*****

*Consider the following algorithms.

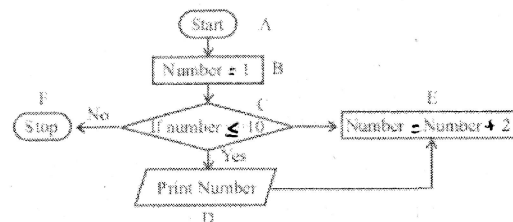
37.What is the output of the above algorithms?

i. 1, 2,3,4,5,6,7,8,9,10

ii. 1, 2,3,4,5,6,7,8,9,

iii. 1, 3, 5,7, 9

iv. 10



38.What is the change to get the 11 as output?

i. Remove D in the place and keep it between C and E

ii. Change E as number = = number +1

iii. Change C as if number < 11

iv. Change B as number = 2

