

VAVUNIYA SOUTH ZONAL EDUCATION OFFICE

Practice exam 2020

INFORMATION AND COMMUNICATION TECHNOLOGY

GRADE 11

03 HOURS

PART 1

- The correct statement/s about first generation computers
 - Larger than according to physical size
 - Vacuum Tubes were used for circuits
 - Machine Language was used to processing

(1) A only (2) B only (3) A ,C only (4) all of the above
- Which one is not a feature of good information?
 - Correct
 - Timing
 - Complete
 - Complex
- Main parts of a CPU
 - ALU,CU
 - ALU,Secondary storage
 - CU,Main Memory
 - Main Memory, Secondary storage
- Examples for Secondary Storage
 - CD,Flash Memory,Magnetic Tape
 - CD,Magnetic tape, ROM
 - DVD, Magnetic ,RAM
 - Flash Memory, RAM, ROM
- Consider these tools
 - Barcode Reader
 - Joystick
 - MICR

Which is/are scanning device/devices?

(1) A only (2) B only (3) A,C only (4) A,B only
- Binary value of decimal number 101
 - 1010101_2
 - 1011101_2
 - 1100100_2
 - 1100101_2

7. Binary number 01000010 is stored in a computer. Decimal value of this number?
 (1) 64 (2) 65 (3) 66 (4) 67
8. A Digital Camera has 16GB storage capacity. How many photos with 1MB size can be stored in this camera?
 (1) 16 (2) 62 (3) 16000 (4) 16million
9. Consider these data transmission media/medias.
 A.Coaxial Cable B. Infrared
 C.Microwaves D. Fiber Optical
 Which is/are wireless media/medias
 (1) B Only
 (2) D Only
 (3) A , D Only
 (4) B , C Only
10. 0.8 choose the Least Significant Digit and Most significant Digit of this number
 (1) 0,8 (2)8,0 (3)0,0 (4)8,8
11. Main function of an Operating System
 1) Check the spellings in a presentation
 2) Count the amount of words in a document
 3) Hard ware management of a computer system
 4) Email sending and receiving
12. Consider the following File name extensions
 A. Odt B. docx C. doc D. rtf
 Valid extension for save a word processing file
 (1) A,B Only (2) B,C Only
 (3) C,D Only (4) A,B,C,D
13. Statement A changed into statement B by using Word processing software
 Statement A: Introduction to Flow chart and Pseudo Codes.
 statement B: Introduction to Flow chart and Pseudo Codes.
 Which tools were used to formatted to this statements
 (1) **B** **I** (2) **U** **I** (3) **U** **B** (4) **B** **A**

14-17 questions are based on following database table.

| Index No | Name | Address | Date of Birth | Age |
|----------|----------|----------|---------------|-----|
| S100 | Aravinth | Kandy | 07.08.2000 | 18 |
| S101 | Ravi | Colombo | 31.05.2001 | 17 |
| S102 | Aswin | Jaffna | 21.03.2000 | 18 |
| S103 | Kumar | Vavuniya | 15.06.2001 | 17 |

14. How many Records are in the table?

- (1) 3 (2) 4 (3) 5 (4) 25

15. How many fields are in the table?

- (1) 5 (2) 4 (3) 3 (4) 25

16. Which field is suitable for Primary Key?

- (1) Name (2) Address (3) Index No (4) Age

17. The Suitable data type for Date of Birth field?

- (1) Boolean (2) Text
(3) Date/Time (4) Number

18. Following activities are included in Testing step of System Development Life Cycle

- A. Acceptance Testing
- B. Integration Testing
- C. System Testing
- D. Unit Testing

Correct order of these testing

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

19. Incorrect statement about computer files

- (1) Files are used to save the data in a computer system
- (2) Can change the file's name
- (3) Can create folders in a file
- (4) .doc and .txt are file extensions

20 and 21 questions are based on following spread sheet.

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

20. There is a formula in the cell A4 as that = $A2+A3$, this formula will be copy to cell B4. Which value is display in the cell B4?
 (1) 5 (2) 6 (3) 7 (4) 8
21. This =Count(A2:A4) formula is inserted in the cell A5, which value will be display in the cell A5
 (1) 10 (2) 5 (3) 3 (4) 7
22. Consider the following
 A. =Average(A1:D5) B. =Average(A1,D5) C. =Average(A1:D5,F5)
 Correct spread sheet Function/s?
 (1) A,B Only (2)A,C Only (3) B,C Only (4)All of the above
23. The valid identifier is?
 (1) Average Marks (2) Last-Name (3) SUM (4) Library
24. 29 DIV 6 Output value of this mathematical operation
 (1) 5 (2) 4 (3) 3 (4) 10
25. Which one is used to indicate the comments in Pascal Programing?
 (1) <!.....> (2) (#.....#) (3) (*.....*) (4) (“.....”)
26. Which value will be display after the calculation of this formula = $1+3*5-2$
 (1) 10 (2) 12 (3) 14 (4) 18
27. Consider the A,B,C logical expressions
 P. (A > B) OR (C > D)
 Q. (A < B) AND (C > D)
 R. NOT (A<B)
 The values of A,B,C,D are in order 50,40,30,20 Select the outputs of the expressions P,Q,R
 (1) True,False,False (2)True,False,True
 (3) True,True,True (4) True,True,False
28. Which one is open source Presentation software.
 (1) Microsoft Power Point (2) Open Office.org impress
 (3) Adobe Flash (4) Apple Keynoye
29. Select a suitable statement about electronic presentation software.
 A. Ctrl + M shortcut is used to get new slide a presentation software
 B. Ctrl + N shortcut is used to get a new presentation.
 In above statements
 (1) A Only Correct (2) B Only Correct
 (3) A,B both are correct (4) A,B both are wrong

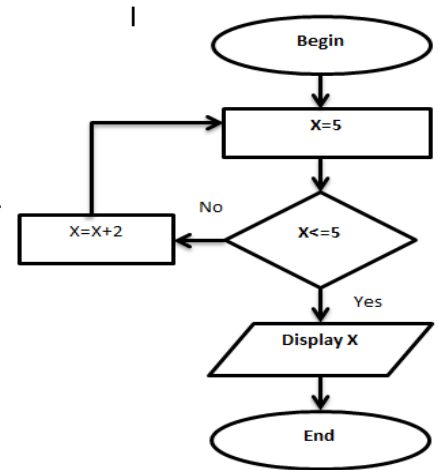
30. A teacher is using a presentation software to his lesson. He has a idea to skip the display for a few minutes for get attention of students on him. Which key is used by him?
 (1)A (2) B (3) F1 (4) F5

31. Correct statement about Relational database?
 (1) Relationship means combination of two rows in tables.
 (2) Relationship means combination of two columns in tables.
 (3) Relationship means combination of two tables.
 (4) Relationship means combination of two databases.

Select the answers by using following Flow chart to 32-34 questions.

32. Output of this Flow chart?
 (1) 5 (2) 9 (3) 7 (4) No output

33. Which control structure is used to convert this flowchart into Programming process
 (1) If.....then.....endif (2)if.....then.....else.....endif
 (3) Do.....while....loop (4) Do....until....lo
 (4) op



34. Which one is used to stop the repetition?
 X>5 (2) X<=5 (3) X<5 (4) X=5

35. Output of this pseudo code?
 Begin
 N=9
 While (N>5)
 N=N-2
 End while
 Print N
 End
 (1) 1 (2) 5 (3) 7 (4) 9

36. Which one is we want to consider when we buy a computer
 A. Good name of computer brand
 B. Seller's good name
 C. Warranty period of computer

- (1) A Only (2) B Only
 (3) A,B Only (4) All of the above

37. Consider the following softwares.

- A. DOS
- B. Mozilla Firefox
- C. Microsoft Windows
- D. Linux

Operating system software/s/

- (1) A,B Only (2)A,C Only (3) B,C Only (4) All of the above

38. Which one is not used to connect a LAN network by using Laptops

- (1) External Disc drive (2)Hub
(3) Router (4)Switch

39. Which data transmission media is faster

- (1) Co-axial cable (2) Fiber optic cable
(2) Radio wave (4) Twisted pair cable

40. Which is/are correct statement regarding Digital Signal?

- A. Face to face human voice is an example for digital signal.
- B. Digital signal will be defined by Square waves.
- C. Sea waves is an example for digital signal.

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

Information Communication Technology

Part II

including first question answer any 5 questions

First question will carry 20 marks. other question will have 10 marks

- I. Write 2 advantages of Laptop computer compared with Desktop computers?
- II. A teacher takes photos in the school programme using tablet computer. after the event finishes, the images are viewed on a tablet computer. give an input and output devices used in the above event?
- III. Draw the logical circuit to the following Boolean expression.
(A OR C) AND NOT B
- IV. Convert the hexa decimal number $AB2_{16}$ to the equivalent of decimal number.
- V. Arrange the following devices in the ascending order based on their capacities of storage.
 - A. Hard Disk
 - B. Random Access Memory
 - C. Register Memory
 - D. Digital Versatile Disk
 - E. Magnetic Tape
- VI. List the following operating systems as single user, multi user. multi-tasking and real time.
 - A. Windows 10
 - B. Calculator
 - C. MS DOS
 - D. Window Server
- VII. Write the output of following expression $(4 \geq 4)$ AND NOT $(7 > 9)$.
- VIII. Write 2 characteristics of compiler and Interpreter.
- IX. Give two examples for Low level languages.
- X. write the output of following pseudo code?

Begin

X=0

Count=0

Y=1

While Count \leq 3

X=X+Y

Y=Y+2

Count=Count+1

End While

Print X

End

(2 x 10 = 20Marks)

2) The following spread sheet shows first half year source of income of a sport club.

| | A | B | C | D | E | F | G | H | I | J |
|---|----------------------|----------------|-----------------|--------------|--------------|------------|-------------|--------------|------------|-----------|
| 1 | INCOME | January | February | March | April | May | June | Total | VAT | 5% |
| 2 | Members | 5000 | 7000 | 9000 | 6500 | 7200 | 5800 | | | |
| 3 | Advertisement | 15000 | 20000 | 25000 | 16000 | 14000 | 12000 | | | |
| 4 | Donation | 5000 | 10000 | 7000 | 6000 | 5000 | 12000 | | | |
| 5 | Programmes | 4500 | 8000 | 7600 | 4900 | 6800 | 7400 | | | |
| 6 | Winning gifts | 50000 | 25000 | 15000 | 25000 | 50000 | 10000 | | | |
| 7 | AVERAGE | | | | | | | | | |

- What is the formula to be written in the H2 cell to calculate the income earned by the members of sports club, for 6 months?
- Write the formula in B7 cell to calculate the average income of January?
- Write the formula to find out the total income of first 6 months in H7?
- They have to pay 5% tax on the amount of income earned from each source. what is the equation to be written in the cell I2 to calculate the tax of income earned by the members?
- Write two types of charts to represent income of each month earned by donations.

(2 x 5 = 10 Marks)

3) IT System is a company that sells computer components. maintaining the database with the following 3 tables to items in the presence, suppliers, and items purchased from the supplier.

| Item ID | IName | Stock |
|---------|----------|-------|
| C01 | Keyboard | 10 |
| C02 | Mouse | 15 |
| C03 | Monitor | 08 |
| C04 | Pendrive | 20 |

Item ~~பட்டியல்~~

| Supp ID | SName | Phone |
|---------|----------|------------|
| S01 | Aravinth | 0112548796 |
| S02 | Chamara | 0258647123 |
| S03 | Siva | 0112346855 |
| S04 | Dinesh | 0118596741 |

Supplier ~~பட்டியல்~~

| Date | SuppID | ItemID | Count |
|------------|--------|--------|-------|
| 20.01.2017 | S01 | C02 | 25 |
| 15.03.2017 | S04 | C01 | 20 |
| 05.04.2017 | S02 | C04 | 30 |
| 08.08.2017 | S03 | C03 | 15 |
| | | | |
| | | | |

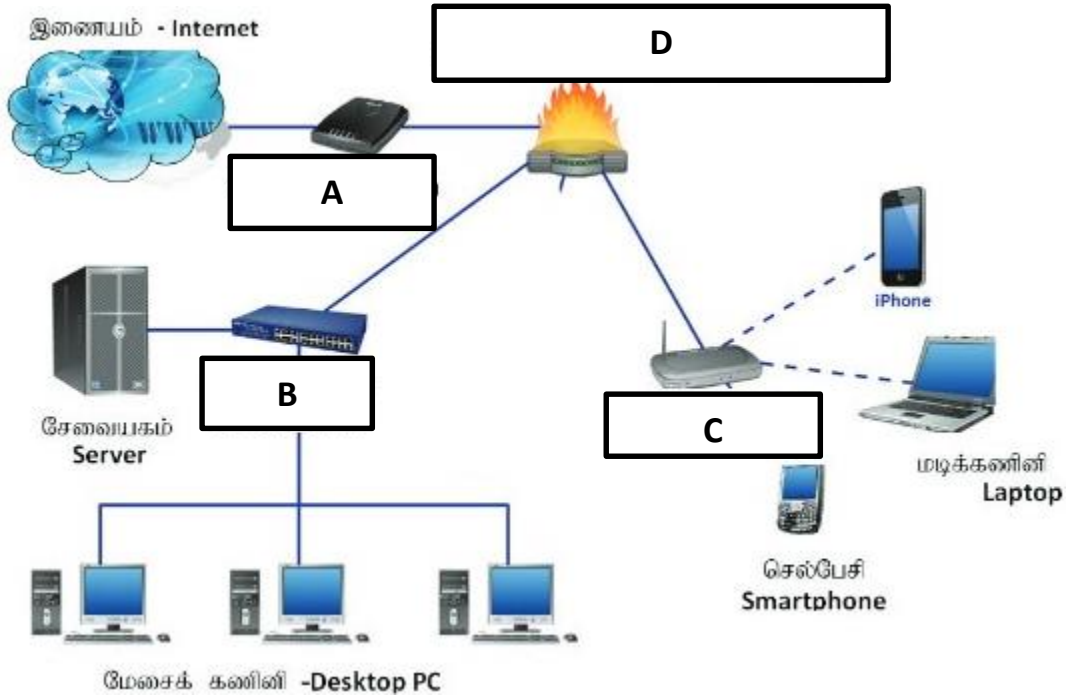
Purchase ~~பட்டியல்~~

- Give 2 primary key fields and their tables to be used in this database.
- The shop decided to add a new item of speaker and purchased 25 units from the new supplier, raja on 12.12.2017.
 - Which table/tables needs to be updated for this purpose?
 - Write the new record/records where table/tables have been updated?
- A customer buys a monitor and a pen drive.
 - Which table or tables should be updated for the above activity.
 - Write the new record/records of updated table/tables.

(2+1+3+1+3= 10marks)

4)

i. Answer the question by looking below diagram.



A. Name the network devices of labeled A, B, C, D .

B. What is the function of device D.?

C. Write two benefits of usage device C.

ii. Online Shopping is getting popular these days. Write two advantages and two disadvantages of online shopping.

(4+1+2+3 = 10Marks)

5) A Partly formatted word processing page is given. It has been labeled A to E.

The Three R's of Waste Reduction ← **A**

B { The waste disposal of most is haphazard. Garbage is routinely thrown to road sides in Polythene bags. In addition to the waste in their contents, polythene bags themselves, due to their non-degradable nature, will clog dams creating flash floods even from a slight drizzle. They may also create breeding areas for deadly mosquitoes. Some of the waste that is dumped is highly toxic.

C { To ensure a healthy and a livable environment for our future generations we have to stop spoiling our environment and start protecting it. An accepted way of environmental protection is to follow what is known as the 3R method. The Three R's denote reduce, reuse and recycle respectively.

Descriptions of these three techniques are shown in table 1. **E**

| Technique | Description |
|-----------|--|
| Reduce | Reducing the amount of waste that is produced. |
| Reuse | Instead of throwing things away, reusing them again and again. |
| Recycle | Creating new products out of waste. |

Table 1. The Three R's

Figure 1

Tools which were used to create above word-processing interface has given in figure No 2 and has been labeled No 1 to 20.

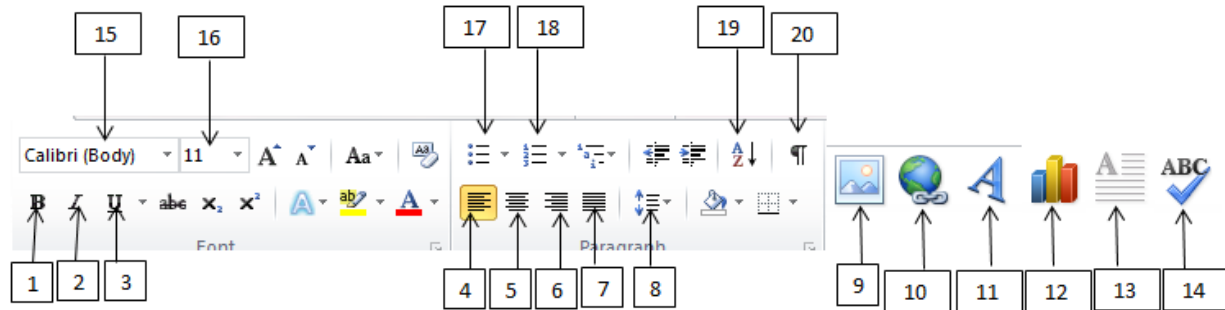


Figure 2

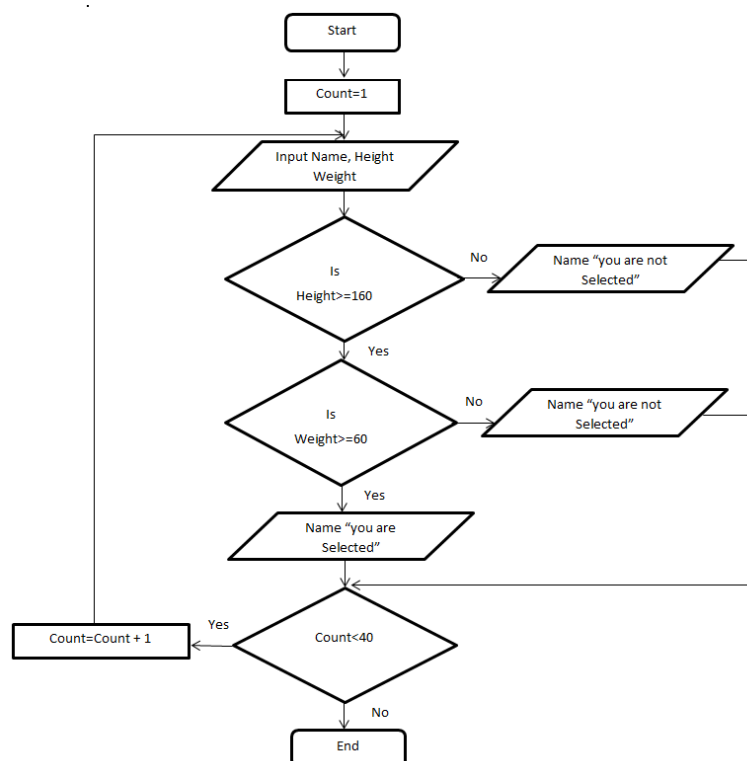
Use proper tools from figure no 2 and write the steps how to complete the below tasks.

(Note: writing unavailable tools from above figure no 2 will not carry marks.)

- i. Center the label A.
- ii. Align justify para B.
- iii. Make Italic Label C.
- iv. Bold label D.
- v. Put underline label E.
- vi. Check spelling errors.
- vii. Hide or Display characters which cannot be printed on document.
- viii. Arrange words in document.
- ix. Insert a picture into document.
- x. How to Change space between two lines?

(2 x 5 = 10 Marks)

6)



The above flowchart describes selecting 40 students for boxing competition. for the competition teacher expecting following conditions.

A. Hight greater than 160cm AND

B. weight greater than 60Kg

- i. What are the inputs for the flow chart?
- ii. What are the outputs of the flow chart?
- iii. Write statement to end the Repetition.
- iv. When stops Loop, what is the value of Count?
- v. Write a situation to have Repetition condition in a programme.

Draw the flow chart for the following pseudo code.

```
Begin
    Input Marks
    If Marks >=75
        Display Very Good
    Else
        If Marks >=65
            Display Good
        Else
            Display Average
        End If
    End If
End
```

(1+1+1+1+1+5 = 10Marks)

7) Now a days ICT impacts in all the sectors in world.

- i. Describe about impact of ICT in Commerce, and job opportunities.
- ii. Describe about government activities to develop ICT skills in school children.
- iii. What is software piracy?
- iv. write two notes about hardware factors when buying new computer.

(3+3+2+2 = 10Marks)