Zonal Education Office – Vavuniya south

First Term Examination

Information Communication Technology   Time-3 hours

Part-1

Answer all questions

1. Consider the following information about data and information
   a.   Data processing must be needed to get the information
   b.   The value of information is related to timeline
   c.   Today's temperature is an example of information
   Which of the above statements are true
   1. A only   2. A,B and C only   3. A and B only   4. C only

2. In which generation computer used keyboard to input data
   1. First generation computer   3. Second generation computer
   2. Third generation computer   4. Fourth generation computer

3. Which of the following is an example of a system in our day to day life
   1. ATM, QR Coding   3. MRI , CAT
   2. RFID , CCTV   4. CAT , ATM

4. Which of the following port is used to connect with switch in computer network
   1. HDMI port   3. RJ45 port
   2. USB port   4. VGA port

5. Consider the following devices
   a. Joystick   b. OMR   c. Light pen   d. Printer

   Which of the above is pointing device and scanning device

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

6. Which of the following isn't a volatile memory
   1. Memory register   3. Cache
   2. RAM   4. ROM

7. Which of the following hexa decimal equivalent of the octal number 173_8
   1. 53_{16} 2. 42_{16} 3. 63_{16} 4. $7B_{16}$

8. 27_x , Which of the following number system can be base of x

1. Decimal , binary, octal   3. Binary , octal , hexadecimal
2. Decimal , binary , hexadecimal   4. Octal , decimal , hexadecimal

9. A-151 $_{10}$ B .10011001$_2$ C.8F$_{16}$ D.230$_8$
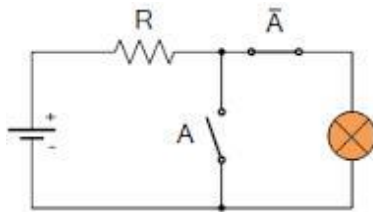
   Arrange the following numbers in ascending order
   1. A,B,C,D   3. B,C,A,D
   2. C,A,D,B   4. B,D,A,C

10 " H" is represented in ASCII coding scheme as 1001000. So how K is represented in
   ASCII coding scheme
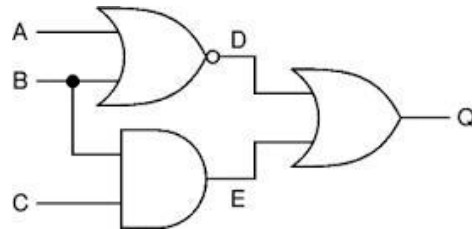   1. 1110101   2. 1001101   3. 1001011   4. 1101010

11. Which of the following gate is most suitable to the given electronic circuit

   1. AND   2. NAND   3.NOT   4.OR

12. Find the value of A, B using the given input C=1 and Q=0 in the given logic circuit
    1. A=0, B=0
    2. A=1, B=0
    3. A=1, B=1
    4. A=0, B=1

13. The question paper has P,Q,R questions. Candidates should answer two questions.
    Question P is compulsory. Candidate can select one question from Q , R. Which of the
    following Boolean expression is most appropriate to the above scenario
    1. P AND(Q AND R)   3.P OR(Q OR R)
    2. 3. P AND (Q OR R)   4. P OR(Q AND R)

14. Which of the following is not considered as utility software?
    1. Disk Partitioning   3. Disk Formatting
    2. Compiler   4. Disk Defragmentation

15. Consider the following statements regarding the operating system
    A. Security management is the function of the operating system
    B. Apple company produce Android operating system

C. Super computer uses multitask operating system
Which of the above statements are true

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

16. Which of the following is approximately equivalent to one TB?

1. $1*10^6$ MB   3. $1*10^6$ GB
2. $1*10^6$ KB   4. $1*10^9$ byte

17. Which of the following is not a common feature of both word processing and electronic Presentation software?
1.Changing line space   3. Find and replace
2. mail merge   4. Spell checker

18. The word "latter" is printed in word processing software. Which of the following easy way to replace the word "letter" instead of "latter"
1. Spelling & Grammar   3. Find & Replace
2. Auto Correct   4. Delete &Retype

19. Which tool is used to type "x^2" in word processing software?
1. Indentation   3. Super Script
2. Grow Font   4. Right Alignment

20. Which of the following reason is most suitable to display "########" in spread sheet software?
1. There is a fault in formula   3. There is not a space in column
2. If the formula's length is high 4. None of the above

21.The following spread sheet displays the discount amount of Sena's business. Write the formula in D5 cell to calculate the discount of "C001" ?

	A	B	C	D	E
1					
2		Sena stors			
3		Discount =			10%
4		Item	Price	Discount	
5		C001	$1,500.00		
6		C002	$3,000.00		
7		C003	$1,250.00		

1. =C5*E3   2. =C5*E5   3.=D5*E$3   4. =C5*E$3

22. Consider the following cell address
A. $E5$ B. E5   C.$5E$ 4. E$5
Select the valid cell address from the above

1. B   2. B,C   3.B,D   4.None of the above

23. Theeban prepares the presentation. He includes many text and comments. He wants to do the animation to text .Which of the following tool is used to his purpose?
    1. Slide transition   2.Drawing toolbar   3. Custom animation 4. Layouts

24. Which of the following tool is used to arrange the slides in presentation ?
    1.Normal view   2. Slide show   3. Slide sorter   4. Handouts

25. Which of the following statement is correct regarding the presentation software
    1. Can include the audio files but can't include the video files
    2. Can include the video files but can't include the audio files
    3. Can't include the audio, video files
    4. Can include the audio, video files

26. Which of the following way is most suitable to move from one slide to another
        1. Slide transition   2. Slide layout   3. Slide design   4.Button
    • Answer 27 ,28 ,29 using the given tables

Students

Student_ID	Student_Name	DOB
P100	Saratha	1975.12.06
P101	Padmini	1968.06.15
P102	Raja	1964.02.18

Teacher

Teacher_ID	Teacher _Name
D08	Mr.Nimal
D08	Mr. Rathan
D08	Mr. Seelan

27. What is the relation ship between teacher table and student table?
    1. One-to -one relation   3. One-to-many relation
    2. many-to one relation   4. Many-to –many relation

28. How many fields are there in Teacher table?
        1. 3   2. 4   3. 2   4.6

29. How many records are there in Doctor Teacher?
        1.3   2.4   3.2   4.6
30. The field which is used to identify the record in DBMS uniquely
        1. Table   2.Query   3.Foreign   4.primary key

31. Which of the following statements are true regarding the function and procedures in computer program e?
    1. The program will be easy
    2. Easy to do the correction
    3. Can use in another place with small changes or with out changes
    4. All

32. Algorithm is a
    1. One of the computer language
    2. One of the operating system
    3. It is a step to solve the problem.
    4. It is a program coding.

33. Consider the following data types
    A. Byte   B. Integer   C. Long   D. Single   E. Double
    Which of the above data types are suitable 6.5, 15
    1. A,B &C,D,E   3. A,D & B,C,E
    2. D,E &A,C,B   4. C,D,E & A,B

34. What is the output to the given output
    Begin
            P=5
            R=8
            If (P>R) Then
                    Display P
            Else
                    Display R
    End.

    1. 5   2. 13   3. 3.8   4. Error

35 How many times will the following 'while' loop execute?
            Count=9
            While count>=3
            Count=count-2
            Endwhile
            1.2   2.4   3.6   4.8
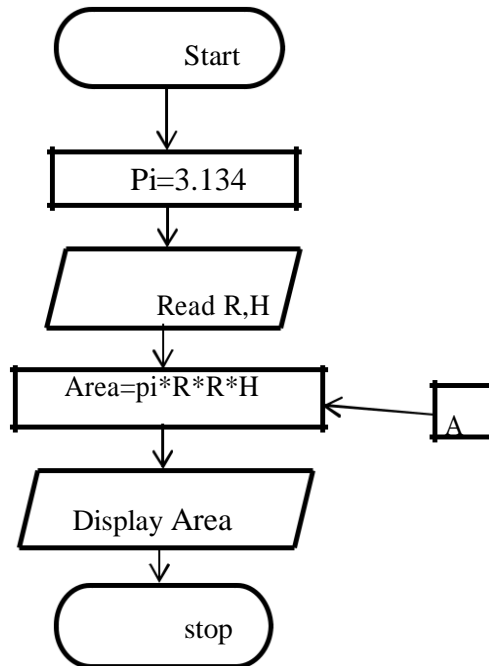
36. Var : Array[0..5] of integer is an Array. What is the size of this array
        1. 5   2. 6   3. 4   4. None of the above

37. Simplify the Pascal expression of 7 + 6 MOD 4 – 20 DIV 3
      1. 3   2. -2   3. 2   4. 5

38. Answer question 38 , 39 using the given flowchart

38. What are the control structures in the above flow chart.
      1. Sequence only
      2. Selection only
      3. Reputation only
      4. Sequence & Selection only

39. What is the symbol mentioned for in the above flow chart
      1. Input   2. Output   3. Processing   4. Decision

40. Following statements regarding the disadvantages of ICT.
A. Students addicted by playing computer games.
B. Downloading learning materials using internet
C. Students affected psychologically by using inappropriate web sites.
1. A only   2. A & C only   3. A,B,C   4. None of the above

Part-II

Answer five questions including first question.

1)   1. The vavuniya weather center records daily rainfall values for one month. write down 2 examples for information that can be found by processing the above mentioned daily rainfall data

2. Convert the hexadecimal number E9 to the equivalent octal number?
3. Write down two data types to represent numbers in Pascal language?
4. Give two differences between dot matrix printer and laser printer ?
5. Give two examples for each system ,application software?
6. Give two benefits of E-Mail rather than using ordinary mail?
7. Classify the computer according to size?
8. Consider the following statements

    It is a method to show the problem graphically   1…………………
    It is a method to show the problem textually   2. …………………

    Select the suitable answer from the given list
        (pseudo code , flowchart)

9. . Copy the following table in your answer sheet. And match A with B

Compiler	The language understand by machine
Source code	Source code is translated by object code into line by line
Interpreter	The language understand by human
Object code	Source code is translated by object code whole at a time

10. Consider the following column 1 , 2

Column A	Column B
A	It is an input device
B	High speed and high processing computer in the world
C	Control all the device of computer system
D	The computer uses analog and digital signal

Select the answer from the given list. and write down against the label A,B, C,D ,
(Super computer , , Joystick , Control unit , Hybrid computer)

2. Saratha do the business using the manual information system. Now she has decided to do the business using computer based information system with internet connection.
   1. Give two benefits of computer based information system rather than using manual information system ?
   2. Give two data gathering techniques ?
   3. Give one example for data management software?
   4. Write one benefit When we connect the information system with internet?
   5. Write done the testing types in order?

3. One person has deposited his money in NSB bank Mannar branch .He wish to withdraw his money from Vavuniya branch.
   1. Write down the type of network which he used?
   2. Classify the computer network according to physical network?
   3. Differentiate Local area network and wide area network?
   4. Write down 2 advantages and disadvantages of network?
   5. Give two data transmission medias?

4. Consider the following spread sheet

	A	B	C	D	E	F
1	Item	Unit cost (Rs)	Quantity	Total cost (Rs)	Discount	Final cost (Rs)
2	CD	Rs30.00	10	Rs300.00	5%	Rs285.00
3	DVD	Rs50.00	8	Rs400.00		Rs380.00
4	Pen Drive	Rs1,500.00	5	Rs7,500.00		Rs7,125.00
5					Total	Rs7,790.00
6						

1. Write down the graph type which represent the items and their prices?
2. Write down the formula to find the final cost in F2 cell?
3. If the formula is copied to F3 from F2 what would be the formula displayed?
4. Write down the formula in F5 to find the grand total?
5. Give two spread sheet software?

(5*2=10 marks)

5.A. Consider the following program segment in pascal

Var num:array[0..4]of integer;
Begin
Num[0]:=15;
Num[2]:=18;
Num[4]:=50;
Num[1]:= Num[4]+10;
Num[3]:= Num[0]+ Num[2];
For i:=1 to4 do

Write(num[i]);

End.

Write the output for the above program   (3 marks)

B. Draw the flow chart for the given pseudocode

        Begin
           Value=A[0]
           K=1
           While(k<=4)
                   If A[k]<value Then
                          Value=A[k]
                   Endif
                   K=k+1
           Endwhile
                   Display value
        End.   (4 Marks)

  C   .If the array A containing five integers. What is the output for the above (B part)

      Pseucode   (3 Marks)

6. 1. Draw the flow chart to print 1-10 number.   (2 marks)
  2   Differentiate compiler and interpreter?   (2 marks)
  3   Give four features of high level language   (2 marks)
  4   Write the Pascal program to find the average and total of three numbers?   (4 marks)