Shah Jalal University of Science & Technology, Sylhet Department of Computer Science & Engineering 2nd year 2nd semester Final Examination 2015 Course ID:CSE-203Z (Introduction to Computer Language) Full Marks: 50 Time: 2 Hours (Answer any 4 questions taking 2 questions from each group)

Part:A



1. Find out the errors and correct them(write the codes first and correct side by side): 3 #include<stdio.h> main (int ch; ch=getchar; switch(ch){
Case 'A'; printf("%s",black);
Case 'B';printf("%s",ball); cisc; printf("Error in choice");}} Distinguish between x-and -x with an example. c) How are comments used in a C program? Give an example. 2 Write a program that takes a character and displays 10 consecutive characters including it and their ASCII values as well. Write some output functions and their prototypes? 2 Assume a=5, b=10, c=.001, d='a'. Find out the value of following codes:
i) b*=a>b?a+1:++b
ii) (a<b) && (c>1)|| (d<'b*)
Write which are invalid identifiers and why? 2.5 _lpGe break ii. Cat dog go_to Float write TRUE/FALSE against each of the following statements. i. for(i=....;i<=....;i++)-----here i can be any datatype. ii. enum is a keyword. iii. modulus of a floating point variable is possible. iv. >= is an assignment operator. v. ++I; is a statement Q3 i)Draw the output: ii)Write codes for the following sample output a) where number of rows will be given by user: #include<stdio.h> main() (int ij,k,r; scanf("%d",&r); for(i=1;i<=r;i++)(for(j=r-i;j>=0;j--)printf(" "); for(k=1;k<=2*i-1;k++)printf("*"); printf("\n"); If there is a valid statement "X=0XFFFUL" in a program, what is the data type of a variable X? 1.5 Mention all types of unary operators. Give an example that uses sizeof operator. 3.5 Find the output of the following C code: #include<stdio.h> main() { int i; for(i=1;i<=16;i++) (if(i%5=0) ++i; continue; } printf("%d\n",i); }) 2.5*2 Convert 11010 to its corresponding octal and hexadecimal.

i) α-amylase

ii) acid phosphatase

iii) lactate dehydrogenase

What does increases activity of AST in plasma.

6.0

4.0

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Define a structure type variable of a student record (including Name, Roll, Credit). Subtract 110111<sub>10</sub> from1011100<sub>10</sub> using 2's complement method.
b)
          Define the output of the following C code where scanf values are 3,1,4,2,0 respectively.
c)
                 #include<stdio.h>
                 void main()
                 \{int i=0,p[]=\{12,23,44,2,7\},x[5];
                 while (i<=4)
                 (scanf("%d",&x[i]);
                   i++;}
                   printf("the value of array's are:");
                 for(i=0;i<=4;i++)
                printf("%d\t",p[i]-x[i]);)
          Define the output of the following C code:
         #include<sidio.h>
          void main()
          {int x=0,y=0;
             while(x<20)
              {x=y++;}
               printf("%d",y);
                ++x;
          }}
         Add two matrix of 2 rows and 3 columns using C code.

How are library functions accessed?

Write the first line of the function definition, including the formal argument declarations, for each of the situation described halowing that have the first line of the situation described halowing that have have negligible that formal argument declarations, for each of the situation delived halowing that have have negligible to floating point result.

ii) a function called process accepts an integer and two floating point quantities and return a double-
          precision quantity.
          Describe the output corresponding to the 1,2,3,4 lines of the following C code:
d)
               #include<stdio.h>
                         main()
                         (int a;
                              char c[4];
                            for(a=0; ;++a){
           1.
                         gets(c);
                        if(strcmp(c,"cse")=0)
printf("%s",c);
           2.
           3.
```