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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- September-2018

B.Tech Ist Semester

COURSE CODE: 13B21CI121

MAX. MARKS: 15

COURSE NAME: Introduction to Computer and Basic Programming

COURSE CREDITS: 3

MAX. TIME: 1 Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q.1 (3 Marks) Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill.

Q.2 (1 Marks) Explain in detail High level, Machine language and Assembly language.

Q.3 (1 mark) Perform the binary subtraction of 23 and 13 using two's complement method.

Q.4 (2 Marks) Point out the errors, if any, in the following C statements:

a) area of circle = 3.14 * r * r;	b) k = (a * b) (c + (2.5a + b) (d + e) ;
c) #include<stdio.h> void Main() { float a = 5, b = 2 ; int c ; c = a % b ; printf ("%d", c) ; }	d) #include<stdio.h> void main() { int n = 9, div = 0; div = n/0; printf("resut = %d", div); }

Q.5 (2 Marks) Draw a flowchart to find the largest among three different numbers entered by user.

Q.6 (3 Marks) Write a short note on the following:

a) Compile Time Error

b) Run Time Error

c) Von Neumann Model

PTO

Q.7 (1 Mark) Explain the importance of MAR and MDR in accomplishing processor to memory communication.

Q. 8 (2 Marks) Find Error/Output in following code:

<pre>#include<stdio.h> int main() { float i; i = 1+(float)5/(int)2.0; printf("%f", i); }</pre>	<pre>#include<stdio.h> int main() { int x=10; int a=1,b=2,c=3,d=4; x+=a=b*c+d-a; printf("%d,%d",a,x); }</pre>
<pre>#include<stdio.h> int main() { float a=1.1; int b=1.1; if(a==b) printf("YES"); else printf("NO"); }</pre>	<pre>#include<stdio.h> void main() { int a, b, c; a + b = c; }</pre>