## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE End Semester Examination – Winter 2018

Course: B. Tech Semester: I

Subject Name: Basic Computer Programming Subject Code: ICT106/ICT206

Max Marks: 60 Date:14/12/2018 Duration: 3 Hr.

## **Instructions to the Students:**

- 1. All the questions are compulsory.
- 2. The level question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.

	which the question is based is mentioned in () in front of the question.  3. Use of non-programmable scientific calculators is allowed.  4. Assume suitable data wherever necessary and mention it clearly.		Strike Color
		(Level/CO)	Marks
Q. 1	Solve the following.		
A)	Write Algorithm & draw Flowchart to find sum of series 1+3+5++N, Where N is positive odd Integer	(Understand)	(6)
<b>B</b> )	Explain the program development process.	(Understand)	(6)
Q.2	Solve Any Two of the following.	,	
A)	What are different types of operators give its description?	(Remember)	(6)
<b>B</b> )	What is variable? What are the rules for defining variables? Differentiate	(Remember)	(6)
	between local variable and global variable?		
C)	Write a program in C by using switch statement to display Monday to Sunday.		(6)
Q. 3	Solve Any Two of the following.		
A)	Write a C program to show table of a number using functions.	(Synthesis)	(6)
<b>B</b> )	What is the purpose of main() function? What is an argument? Differentiate	Remember,	(6)
	between formal arguments and actual arguments?	Analysis	
(C)	Write a C program to swap two integer numbers by using different methods The methods are:  i) Using third variable	(Synthesis)	(6)
6000	ii) Without using third variable		
	iii) Using X-OR operator		

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<b>Q.4</b>	Solve Any Two of the following.		
A)	i) Can the "if" function be used in comparing strings? Justify your answer.	(Evaluation)	(6)
	ii) What is wrong with this statement? myName = "Robin";		600
	iii) How do you determine the length of a string value that was stored in a		13.07.07.07.07.07.07.07.07.07.07.07.07.07.
	variable?	CANAL COLOR	
B)	Write a program in C by using two dimesional array to store temperature of	(Synthesis)	(6)
	two cities for a week and display it.		X X X
C)	Write a program in C to sort the numbers in decending order by taking input	(Synthesis)	(6)
	from the user.		
Q. 5	Solve the following.		
A)	Write a program in C to create a structure of student with student name and	(Synthesis)	(6)
	rollno and marks of two subjects as its members. Calculate average of two subjects. Read the details of n students from user and then display the data in		
	this format.		
	Roll No. Name Sub1 Sub2 Total Average		
В)	i) What will be the output of the C program(assume size of int as 2 bytes)?	(Evaluation)	(6)
D)	#include <stdio.h></stdio.h>	(Evaluation)	(0)
	int main()		
	struct employee		
	int empid[5]; int salary;		
	employee *s;		
	}emp;		
	<pre>printf("%d %d", sizeof(employee), sizeof(emp.empid)); return 0;</pre>		
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ii) What will be the output of the C program?

#include<stdio.h>

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D. 12 10

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#include<string.h>
struct player
char pname[20];
}pl;
char* play(struct player *temp_pl)
strcpy(temp_pl->pname, "kohli");
return temp_pl->pname;
int main()
strcpy(pl.pname, "dhoni");
printf("%s %s", pl.pname, play(&pl));
return 0;
A. dhoni kohli
B. dhoni dhoni
C. None
D. kohli kohli
iii) What will be the output of the C program?
#include<stdio.h>
struct decl.
int n = 100;
}d1;
int main()
printf("%d",d1.n);
return 0;
A. 100
B. Compilation Error
<u>C. 0</u>
D Garbage value
```

\*\*\* End \*\*\*