2.5. Evaluation Process and Reforms Metric (2.5.2)

No.	Key Indicator- 2.5. Evaluation Process and Reforms Metric		
2.5.2.	Mechanism to deal with internal examination related grievances is transparent, time-		
QIM	bound and efficient		
QIM	 bound and efficient Every grievance at Institution level is addressed instantly by the concerned authorities. Students express their grievances related to the internal assessment examination process to the HoD or during the class committee which is convened at regular intervals. The HoD/Principal takes appropriate actions to solve the grievances of the students as early as possible. * Internal assessment question paper is checked by the concerned faculty on the day of examination and if any discrepancies are found, they are rectified and communicated to the students immediately. During internal examinations, visits to examination halls are made by the examinations. The end semester examinations are conducted according to the rules and regulations of the Anna University. The grievances if any, related to the end semester examinations are reported by the Principal to the controller of examinations of the Anna University. The grievances of the students related to the end semester examination in the end semester examination in the end semester examination is not satisfied with the revaluation results published by the Anna University, he/she can apply for 		
	Anna University, he/she can apply for review/challenge evaluation by paying the prescribed fees.		

SNO	CONTENT	PAGE NO
1	CIRCULAR FROM UNIVERSITY REGARDING MID EXAMINATIONS	1
2	MID EXAMINATION CIRCULAR FROM UNIVERSITY (UG & PG)	2
3	MID EXAMINATION NOTIFICATIONS PG	3
4	MID PAPER SCHEME OF EVALUTION (ANS KEY)	4
5	REVALUTION PROCESS FOR A FAILED STUDENT	12
6	CHALLENGE REVALUTION PROCESS FOR A FAILED STUDENT	13
7	FINAL MID MARKS FROM UNIVERSITY CIRCULATED AND PUT IN NOTICE BOARD	14



CIRCULAR FROM UNIVERSITY REGARDING I MID EXAMINATIONS FOR II B. TECH/MBA

ONLINE EXAMINATION TIME TABLE AND DESCRIPTIVE TIME TABLE WITH SUBJECTS AND CODES





M.TECH I SEM TIME TABLE

II MBA TIME TABLE

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DEPARTMENT OF CSE

MID EXAMINATION –II

Course Name & Code:	Programming for Problem solving using C & R201110	Faculty Name:	TPVV SRINIVASARAO
Year/Semester:	1/1	Section:	CSE-A
Date & Duration:	2 ND FEB 2023 & 90 MIN	Max Marks:	15M

Answer all the following questions (Each question carries equal marks):

1.	what is self-referential structure explain with example?	CO6	5M
	L2		
2.	Explain memory allocation functions with examples?	CO4	5M
	L4		
3.	What is function? Explain how arguments are passed?	CO5	5M
	L3		

----- ALL THE BEST ------

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DEPARTMENT OF CSE

MID EXAMINATION –II

Course Name &	Programming for Problem solving using C	Faculty	TPVV
Code:	& R201110	Name:	SRINIVASARAO
Year/Semester:	1/1	Section:	CSE-A
Date & Duration:	2 ND FEB 2023 & 90 MIN	Max Marks:	15M

SCHEME OF EVALUTION FOR MID PAPER

1.ANS KEY:

A self-referential structure is a structure that contains a pointer to a variable of the same type. This allows the structure to refer to itself, creating a linked data structure. Self-referential structures are a powerful tool for creating complex data structures in C++ and are commonly used in algorithms such as trees, graphs, and linked lists.

or example, consider the following code:

struct Node {

int data;

Node* next;

};

EX:

#include <stdio.h>

#include <stdlib.h>

struct node {

int data;

struct node *next;

};

int main() {

// Create three nodes
struct node *head = NULL;
struct node *second = NULL;

struct node *third = NULL;

head = (struct node*)malloc(sizeof(struct node)); second = (struct node*)malloc(sizeof(struct node));

third = (struct node*)malloc(sizeof(struct node));

// Assign data to each node
head->data = 1;
second->data = 2;

third->data = 3;

```
// Link the nodes together
```

head->next = second;

second->next = third;

```
third->next = NULL;
```

```
// Traverse the linked list and display its contents
struct node *current = head;
while (current != NULL) {
    printf("%d ", current->data);
    current = current->next;
}
return 0;
}
```

DEFINITION:1,EXAMPLE:4M

2.ANS KEY:

Dynamic Memory Allocation in C is a process in which we allocate or deallocate a block of memory during the run-time of a program.

There are four functions malloc(), calloc(), realloc() and free() present in <stdlib.h> header file that are used for Dynamic Memory Allocation in our system. It can also be referred to as a procedure to use Heap Memory in which we can vary the size of a variable or Data Structure (such as an Array) during the lifetime of a program using the library functions.

Dynamic Memory Allocation is considered as a very important concept in the field of Data Structures and is used in almost every Data Structures like Linked Lists, Stacks, Dynamic Arrays, Queue, etc.

Now, Let us see the definition, syntax and some examples of each library functions below.

C malloc() Method

malloc() is a method in C which is used to allocate a memory block in the heap section of the memory of some specified size (in bytes) during the run-time of a C program. It is a library function present in the <stdlib.h> header file.

Syntax of malloc()

General Syntax:

(cast-data-type *)malloc(size-in-bytes);

C calloc() Method

calloc() is a method in C which is also used to allocate memory blocks in the heap section, but it is generally used to allocate a sequence of memory blocks (contiguous memory) like an array of elements. It is also present in <stdlib.h> header file.

Syntax of calloc()

General Syntax:

(cast-data-type *)calloc(num, size-in-bytes);

C free() Method

free() as the name suggests is used to free or deallocate a memory block previously allocated using malloc() and calloc() functions during run-time of our program.

Syntax of free()

General syntax:

free(pointer);

C realloc() Method

realloc() is also a method in C that is generally used to reallocate a memory block, here re-allocate means to increase or decrease the size of a memory block previously allocated using malloc() or calloc() methods. It can also be used to completely allocate or deallocate a memory block on its own, we will see how to do it in the examples below.

Syntax of realloc()

General syntax : (cast-data-type *)realloc(ptr, new-size-in-bytes)

EXPLORING ALLOCATION TYPES:2M,SYNTAX FOR EACH :3M

3.ANS KEY:

A function is a block of statements that can perform a particular task. As we all know, there is always at least one function in C, and that is main().

Example

In the example below, the function's name is sum and the data type is int. This task of this function is to produce the sum of two numbers:

```
int sum(int a,int b)
{
   return(a+b);
}
Below, the function is declared in main():
void main()
```

{

int sum(int,int); //function declaration

```
int x=5,y=6;
total = sum(x,y);
```

```
}
```

Formal parameters and actual parameters

When we call a function in main() or anywhere else in the program, and the function we created needs parameters, we would pass parameters to it while calling the function. In the example above, we passed variables x and y to obtain the sum of x and y.

Function categories

There are 4 types of functions:

1. Functions with arguments and return values

This function has arguments and returns a value:

```
#include <stdio.h>
```

void main()

```
{
```

int sub(int,int); //function with return value and arguments

```
int x=10,y=7;
```

```
int res = sub(x,y);
```

```
printf("x-y = %d",res);
```

}

int sub(int a, int b) //function with return value and arguments

```
{
  return(a-b); // return value
}
```

2. Functions with arguments and without return values

```
This function has arguments, but it does not return a value:

#include <stdio.h>

int main()

{

void sum(float,float); //function with arguments and no return value

float x=10.56,y=7.22;

sum(x,y);

}

void sum(float a,float b) //function with arguments and no return value

{

float z = a+b;

printf("x + y = %f",z);

}
```

3. Functions without arguments and with return values

This function has no arguments, but it has a return value:

```
#include<stdio.h>
int main()
{
    int sum();
    int c = sum();
    printf("Sum = %d",c);
```

}

int sum() //function with no arguments and return data type

```
{
    int x=10,y=20,z=5;
    printf("x = %d ; y = %d ; z = %d \n",x,y,z);
    int sum = x+y+z;
    return(sum);
}
```

4. Functions without arguments and without return values

This function has no arguments and no return value:

#include<stdio.h>

int main()

{

```
void sum();
```

sum();

}

void sum() //function with no arguments and return data type

```
{
    int x=15,y=35,z=5;
    printf("x = %d ; y = %d ; z = %d \n",x,y,z);
    int sum = x+y+z;
    printf("Sum = %d",sum);
}
```

EXPLORING FUNTION ARGUMENTS:2M, EXAMPLE FOR EACH:3M





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FI	INAL MID MARKS FROM UNIVERSITY AND CIRCULATED TO ALL SECTIONS ND PLACED IN NOTICE BOARD	