

2.5. Evaluation Process and Reforms Metric

(2.5.1)

No.	Key Indicator- 2.5. Evaluation Process and Reforms Metric
2.5.1. QIM	<p data-bbox="304 349 1318 421"><i>Mechanism of internal assessment is transparent and robust in terms of frequency and mode</i></p> <ul style="list-style-type: none"> <li data-bbox="384 461 1326 696">♦ Internal assessment tests are conducted by the institute's exam cell as per the academic calendar. The time tables, seating arrangements for internal tests are informed through circulars and displayed in notice boards well in advance. <li data-bbox="384 712 1326 1406">♦ Once the examinations are conducted, the answer scripts of students are evaluated by concerned course instructor and distributed to the students. Answers to all the questions given in the examinations are discussed with students during the distribution of answer scripts. The system is made transparent by providing the scheme of evaluation and answer key to the students so that they verify the marks awarded and understand their mistakes committed by them in the examination. Grievances in the evaluation process made by the students are addressed and modifications of marks are carried out, if necessary. Answer scripts are verified by the HoD to ensure that there is no discrepancy in the evaluation. <li data-bbox="384 1422 1326 1536">♦ The internal test marks of the students are disseminated in the notice board to ensure transparency. <li data-bbox="384 1552 1326 1666">♦ The internal assessment and end semester examination marks are communicated to the parents through post and SMS.

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EXAMCELL NOTICE BOARD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KARNATAKA
UNIVERSITY OF ENGINEERING & TECHNOLOGY
WARRANGAL CAMPUS
2024-25 (I SEMESTER)
TIME TABLE

Sl. No.	Department	Course	Subject	Code	Exam Type	Exam Date	Exam Time	Exam Hall
1	Computer Science & Engineering	B.Tech	Operating Systems	CS2025	Open	11.00 AM	1.00 PM	01
2	Computer Science & Engineering	B.Tech	Database Management Systems	CS2026	Open	11.00 AM	1.00 PM	02
3	Computer Science & Engineering	B.Tech	Software Engineering	CS2027	Open	11.00 AM	1.00 PM	03

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KARNATAKA
UNIVERSITY OF ENGINEERING & TECHNOLOGY
WARRANGAL CAMPUS
2024-25 (I SEMESTER)
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2	Computer Science & Engineering	B.Tech	Database Management Systems	CS2026	Open	11.00 AM	1.00 PM	02
3	Computer Science & Engineering	B.Tech	Software Engineering	CS2027	Open	11.00 AM	1.00 PM	03

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KARNATAKA
UNIVERSITY OF ENGINEERING & TECHNOLOGY
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KARNATAKA
UNIVERSITY OF ENGINEERING & TECHNOLOGY
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CIRCULAR FROM UNIVERSITY REGARDING I MID EXAMINATIONS FOR II B. TECH/MBA
ONLINE EXAMINATION TIME TABLE AND DESCRIPTIVE TIME TABLE WITH SUBJECTS AND CODES

EXAMCELL NOTICE BOARD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
REVISED TIME TABLE

TIME: 09:00 AM TO 12:00 NOON

BRANCH	DATE	TIME	VENUE	EXAMINATION
CIVIL ENGINEERING (CIVIL)	16-09-2022	09:00 AM	Engineering Building	Engineering Drawing
	17-09-2022	09:00 AM	Engineering Building	Strength of Materials
ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)	16-09-2022	09:00 AM	Engineering Building	Basic Electrical Engineering
	17-09-2022	09:00 AM	Engineering Building	Control Systems
MECHANICAL ENGINEERING (ME)	16-09-2022	09:00 AM	Engineering Building	Engineering Drawing
	17-09-2022	09:00 AM	Engineering Building	Strength of Materials

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
TIME TABLE

TIME: 09:00 AM TO 12:00 NOON

DATE	TIME	VENUE	EXAMINATION
16-09-2022	09:00 AM	Engineering Building	Engineering Drawing
17-09-2022	09:00 AM	Engineering Building	Strength of Materials

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
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	17-09-2022	09:00 AM	Engineering Building	Strength of Materials

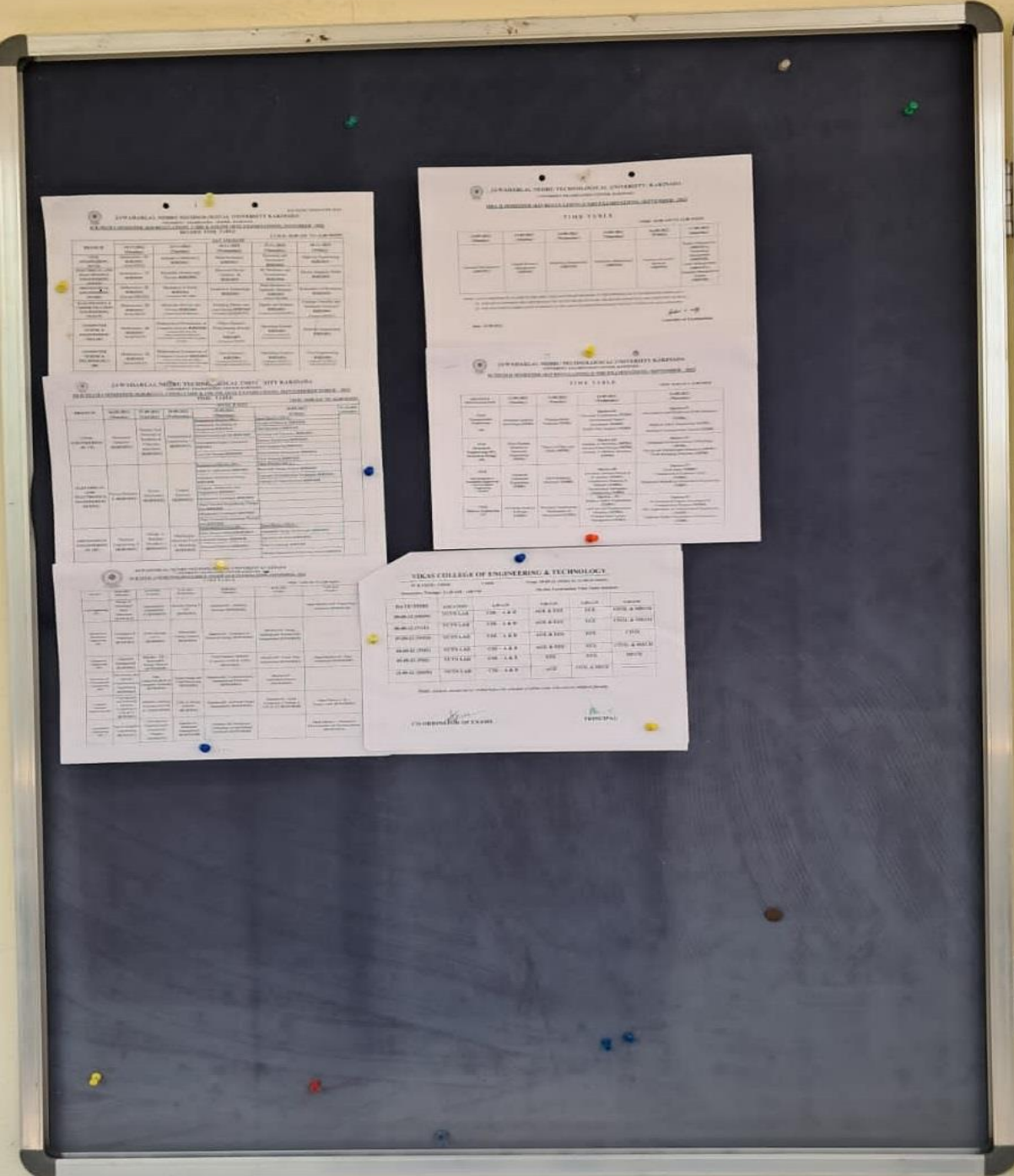
VIKAS COLLEGE OF ENGINEERING & TECHNOLOGY
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
TIME TABLE

TIME: 09:00 AM TO 12:00 NOON

DATE/TIME	LOCATION	SEMESTER	EXAMINATION
05-09-22 (MON)	VCTN LAB	CSE - A & B	AGE & EEE
06-09-22 (TUE)	VCTN LAB	CSE - A & B	AGE & EEE
07-09-22 (WED)	VCTN LAB	CSE - A & B	AGE & EEE
08-09-22 (THU)	VCTN LAB	CSE - A & B	AGE & EEE
09-09-22 (FRI)	VCTN LAB	CSE - A & B	AGE & EEE
12-09-22 (MON)	VCTN LAB	CSE - A & B	AGE & EEE

III MBA I MID EXAMINATION TIME TABLE
I M.TECH II MID EXAMINATION TIME TABLES
IV B.TECH I SEM I MID EXAMINATION TIMETABLE
II B.TECH I SEM I MID EXAMINATION TIME TABLE

**EXAMCELL
NOTICE BOARD**



III B.TECH I SEM I MID EXAMINATION TIME TABLE FROM UNIVERSITY
M.TECH I SEM TIME TABLE
II MBA TIME TABLE

VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY



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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:	I/I	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

SCHEME OF EVALUTION FOR MID PAPER

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

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

2.5. Evaluation Process and Reforms Metric

(2.5.2)

No.	Key Indicator- 2.5. Evaluation Process and Reforms Metric
2.5.2. QIM	<p data-bbox="304 203 1359 271"><i>Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient</i></p> <ul style="list-style-type: none"> <li data-bbox="352 315 1359 689">• 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. <li data-bbox="352 734 1359 1108">• ♦ 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 examination cell coordinator and by internal squad members to monitor the students during the examinations. <li data-bbox="352 1153 1359 1704">• 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 evaluation in the end semester examination are addressed by applying for revaluation. If the student is not satisfied with the revaluation results published by the Anna University, he/she can apply for review/challenge evaluation by paying the prescribed fees.

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EXAMCELL NOTICE BOARD

JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL
 UNIVERSITY OFFICE, JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL, TS-506 004
 2023-24
 TIME TABLE

VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY
 2023-24
 ONLINE EXAMINATION TIME TABLE

JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL
 UNIVERSITY OFFICE, JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL, TS-506 004
 2023-24
 TIME TABLE

VIKAS COLLEGE OF ENGINEERING & TECHNOLOGY
 2023-24
 CO-ORDINATOR OF EXAMS

JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL
 UNIVERSITY OFFICE, JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL, TS-506 004
 2023-24
 TIME TABLE

VIKAS COLLEGE OF ENGINEERING & TECHNOLOGY
 2023-24
 CO-ORDINATOR OF EXAMS

JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL
 UNIVERSITY OFFICE, JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL, TS-506 004
 2023-24
 TIME TABLE

JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL
 UNIVERSITY OFFICE, JAYARAMLAL NEHRU TECHNOLOGICAL UNIVERSITY, WARANGAL, TS-506 004
 2023-24
 TIME TABLE

**CIRCULAR FROM UNIVERSITY REGARDING I MID EXAMINATIONS FOR II B. TECH/MBA
 ONLINE EXAMINATION TIME TABLE AND DESCRIPTIVE TIME TABLE WITH SUBJECTS AND CODES**

EXAMCELL NOTICE BOARD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTRE, KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
REVISED TIME TABLE

TIME: 09:00 AM TO 12:00 NOON

BRANCH	14-09-2022 (Monday)	15-09-2022 (Tuesday)	16-09-2022 (Wednesday)	17-09-2022 (Thursday)	18-09-2022 (Friday)
BIOTECHNICAL ENGINEERING (BTECH)	Microbiology (BTECH01)	Genetics and Cell Biology (BTECH02)	Plant Physiology (BTECH03)	Plant Biochemistry (BTECH04)	Plant Pathology (BTECH05)
CIVIL ENGINEERING (CIVIL)	Strength of Materials (CIVIL01)	Structural Analysis (CIVIL02)	Structural Design (CIVIL03)	Structural Dynamics (CIVIL04)	Structural Rehabilitation (CIVIL05)
COMPUTER SCIENCE & ENGINEERING (CSE)	Computer Organization (CSE01)	Operating Systems (CSE02)	Database Management (CSE03)	Networks (CSE04)	Mobile Computing (CSE05)
ELECTRICAL ENGINEERING (EEE)	Electrical Machines (EEE01)	Power Systems (EEE02)	Control Systems (EEE03)	Renewable Energy (EEE04)	Smart Grids (EEE05)
MECHANICAL ENGINEERING (MECH)	Thermodynamics (MECH01)	Fluid Mechanics (MECH02)	Heat Transfer (MECH03)	Machineries (MECH04)	Manufacturing (MECH05)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTRE, KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
TIME TABLE

TIME: 09:00 AM TO 12:00 NOON

DATE/TIME	14-09-2022 (Monday)	15-09-2022 (Tuesday)	16-09-2022 (Wednesday)	17-09-2022 (Thursday)	18-09-2022 (Friday)
12:00-02:00 PM	Physics (BTECH01)	Chemistry (BTECH02)	Mathematics (BTECH03)	Statistics (BTECH04)	English (BTECH05)
09:00-11:00 AM	Mathematics (BTECH01)	Physics (BTECH02)	Chemistry (BTECH03)	Statistics (BTECH04)	English (BTECH05)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTRE, KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
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CIVIL ENGINEERING (CIVIL)	Strength of Materials (CIVIL01)	Structural Analysis (CIVIL02)	Structural Design (CIVIL03)	Structural Dynamics (CIVIL04)	Structural Rehabilitation (CIVIL05)
ELECTRICAL ENGINEERING (EEE)	Electrical Machines (EEE01)	Power Systems (EEE02)	Control Systems (EEE03)	Renewable Energy (EEE04)	Smart Grids (EEE05)
MECHANICAL ENGINEERING (MECH)	Thermodynamics (MECH01)	Fluid Mechanics (MECH02)	Heat Transfer (MECH03)	Machineries (MECH04)	Manufacturing (MECH05)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTRE, KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
TIME TABLE

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DATE/TIME	14-09-2022 (Monday)	15-09-2022 (Tuesday)	16-09-2022 (Wednesday)	17-09-2022 (Thursday)	18-09-2022 (Friday)
09:00-11:00 AM	Mathematics (BTECH01)	Physics (BTECH02)	Chemistry (BTECH03)	Statistics (BTECH04)	English (BTECH05)
12:00-02:00 PM	Physics (BTECH01)	Chemistry (BTECH02)	Mathematics (BTECH03)	Statistics (BTECH04)	English (BTECH05)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
UNIVERSITY EXAMINATION CENTRE, KAKINADA
III B.TECH I SEM I MID EXAMINATIONS, SEPTEMBER, 2022
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CIVIL ENGINEERING (CIVIL)	Strength of Materials (CIVIL01)	Structural Analysis (CIVIL02)	Structural Design (CIVIL03)	Structural Dynamics (CIVIL04)	Structural Rehabilitation (CIVIL05)
ELECTRICAL ENGINEERING (EEE)	Electrical Machines (EEE01)	Power Systems (EEE02)	Control Systems (EEE03)	Renewable Energy (EEE04)	Smart Grids (EEE05)
MECHANICAL ENGINEERING (MECH)	Thermodynamics (MECH01)	Fluid Mechanics (MECH02)	Heat Transfer (MECH03)	Machineries (MECH04)	Manufacturing (MECH05)

VIKAS COLLEGE OF ENGINEERING & TECHNOLOGY
VIETECH-1 SEM I MID
On Line Examination Time Table Schedule

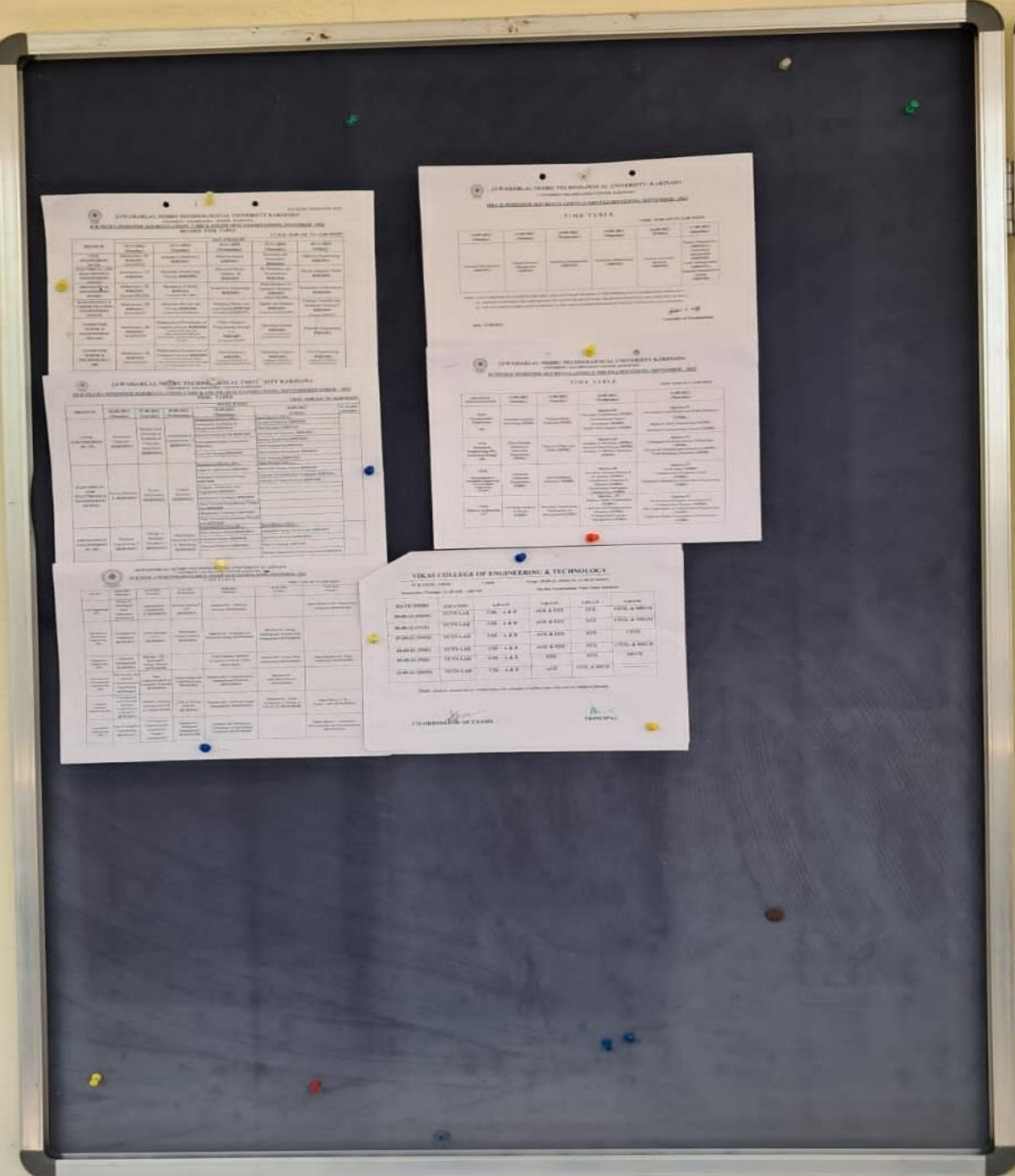
Duration: 1.30 AM - 1.00 PM

DATE/TIME	LOCATION	18-09-22	19-09-22	20-09-22	21-09-22
05:00-07:00 (MON)	VCTN LAB	CSE - A & B	AGE & EEE	ECE	CIVIL & MECH
08:00-10:00 (TUE)	VCTN LAB	CSE - A & B	AGE & EEE	ECE	CIVIL & MECH
07:00-09:00 (WED)	VCTN LAB	CSE - A & B	AGE & EEE	ECE	CIVIL
08:00-10:00 (THU)	VCTN LAB	CSE - A & B	AGE & EEE	ECE	CIVIL & MECH
09:00-11:00 (FRI)	VCTN LAB	CSE - A & B	AGE & EEE	ECE	MECH
12:00-02:00 (MON)	VCTN LAB	CSE - A & B	AGE	CIVIL & MECH	

CO-ORDINATOR OF EXAMS: *[Signature]*
PRINCIPAL: *[Signature]*

III MBA I MID EXAMINATION TIME TABLE
I M.TECH II MID EXAMINATION TIME TABLES
IV B.TECH I SEM I MID EXAMINATION TIMETABLE
II B.TECH I SEM I MID EXAMINATION TIME TABLE

**EXAMCELL
NOTICE BOARD**



III B.TECH I SEM I MID EXAMINATION TIME TABLE FROM UNIVERSITY
M.TECH I SEM TIME TABLE
II MBA TIME TABLE

VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY



(Sponsored by SARASWATHI VIDYA PEETAM)
(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)
Certified by ISO 9001:2015:: Accredited by NAAC with 'B+' Grade.
NUNNA-521212, Vijayawada Rural, Krishna Dt., A.P. India.
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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:	I/I	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

SCHEME OF EVALUTION FOR MID PAPER

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

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

EXAMCELL
NOTICE BOARD

FAILED IN SUBJECT

20NQ1A0431	R2022045	MANAGEMENT AND ORGANIZATIONAL BEHAVIOR	18	F	0
20NQ1A0431	R2022045	MANAGEMENT AND ORGANIZATIONAL BEHAVIOR	18	F	0

AFTER REVALUATION HE/SHE
WAS PASSED IN THAT SUBJECT
WITH 'D' GRADE

20NQ1A0431	R2022045	MANAGEMENT AND ORGANIZATIONAL BEHAVIOR	18	D	3
20NQ1A0431	R2022045	MANAGEMENT AND ORGANIZATIONAL BEHAVIOR	18	D	3

REVALUATION APPLIED FOR THE STUDENT BEARING HT.NO:20NQ1A0431 WITH SUBJECT AND SUB CODE: MANAGEMENT AND ORGAIZATIONAL BEHAVIOUR & R2022045 AND SUCCESSFUL.

EXAMCELL NOTICE BOARD

The notice board displays the following information:

21NQ1D8707	P8702	Construction Management (CE), (PE) Drawing	23	F	0
21NQ1D8708	P8702	Structural Health Monitoring (PE)	23	F	0

After challenge revaluation, the student's results are updated as follows:

11	NQ	21NQ1D8708	P8702	Design of Prestressed Concrete structures (PE)	22	C	3
12	NQ	21NQ1D8708	P8702	Structural Health Monitoring (PE)	23	B	3

DATE: 03-05-2023

[Signature]

CHALLENGE REVALUATION APPLIED FOR THE STUDENT BEARING HT.NO:21NQ1D8708 FOR THE SUBJECT STRUCTURAL HEALTH MONITORING (PE) WITH SUB CODE: P8702 AND SUCCESSFULLY COMPLETED.

EXAMCELL NOTICE BOARD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
PAPER FOR Internal Marks 1st & 2nd Semester
 ENGINEERING COLLEGE OF BENTON AND TALL, KAKINADA-855 015

Date: 13-04-2023

H-2

SRNO	SUBJECT	MRK	ST	AT	MRK	ST	AT	MRK	ST	AT	MRK	ST	AT	MRK	ST	AT	MRK	ST	AT
23NG1A001	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A002	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A003	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A004	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A005	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A006	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A007	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A008	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A009	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A010	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A011	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A012	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A013	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A014	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A015	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A016	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A017	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A018	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A019	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A020	RS2101	10	4	0	16	9	0	0	24	7									
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23NG1A023	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A024	RS2101	10	4	0	16	9	0	0	24	7									
23NG1A025	RS2101	10	4	0	16	9	0	0	24	7									

FINAL MID MARKS FROM UNIVERSITY AND CIRCULATED TO ALL SECTIONS AND PLACED IN NOTICE BOARD