School of Aeronautics (Neemrana)
I-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan
Approved by Director General of Civil Aviation, Govt. of India, All India Council for Technical Education
Ministry of HRD, Govt of India & Affiliated to Rajasthan Technical University, Kota & BTU, Bikaner Rajasthan

Question Paper For Internal Assessment Examination (Theory) - Credit 2 / 88

Instructions for Students / Faculty

Mid Term I (Total 40 Marks, 1.5 HRS., Syllabus from Unit-1)

- Part A: Total number of questions to be given are four (2 from CO1 and 2 from CO2), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions (**Not More Than 25 Words for Both Question & Answer**), no objective type or fill in the blanks. Total 8 marks.
- Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2). They are long answer type **(Not More Than 50 Words for Question Only)**, each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2). They are numerical answer type / fully elaborative type* **(Not More Than 70 Words for Question Only)**, each carrying 8 marks. Total 16 marks.

Mid Term II (Total 60 Marks, 2 HRS., Syllabus from Unit- 2)

- Part A: Total number of questions to be given are ten (5 from CO3 and 5 from CO4), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions **(Not More Than 25 Words for Both Question & Answer)**, no objective type or fill in the blanks. Total 20 marks.
- Part B: Total number of questions to be given are six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4). They are long answer type **(Not More Than 50 Words for Question Only)**, each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4). They are numerical answer type / fully elaborative type **(Not More Than 70 Words For Question Only)** *, each carrying 12 marks. Total 24 marks.

Mid Term III (Total 60 Marks, 2 HRS., Syllabus from Unit- 3)

- Part A: Total number of questions to be given are ten (5 from CO5 and 5 from CO6), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions **(Not More Than 25 Words for Both Question & Answer)**, no objective type or fill in the blanks. Total 20 marks.
- Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6). They are long answer type **(Not More Than 50 Words for Question Only)**, each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6). They are numerical answer type / fully elaborative type **(Not More Than 70 Words For Question Only)** *, each carrying 12 marks. Total 24 marks.

* LIST OF ELABORATIVE THEORY QUESTION SUBJECTS: 1 FY1 - 04 Communication Skills (Cr 2), 1 FY1 - 05 Human Values (Cr 2), 2 FY1 - 04 Communication Skills (Cr 2), 2 FY1 - 05 Human Values (Cr 2), 3 AN1 - 02 Technical Communication (Cr 2), 4 MH1 - 02 Technical Communications (Cr 2), 4 MH1 - 03 Economics and Financial Accounting (Cr 2), 5 AN5 - 12 Aircraft Maintenance Practices (Cr 2), 6 AN3 - 01 Mechanics of Composite Materials (Cr 2), 6 AN5 - 12 Aircraft Rules and Regulation (Cr 2), 6 MH3 - 01 Automobile Engineering (Cr 2).

Instructions For Faculties:

There should be total 6 Course Outcomes (COs) for each subject.

- Mid Term Question Papers are to be submitted as per Course Outcomes (COs) which should be divided equally in Part A, Part B and Part C according to Mid Term Examination and Credit Point.
- In Mid Term-1, the questions are to be given from CO1 and CO2. In Mid Term-2, the questions are to be given from CO3 and CO4. Similarly, in Mid Term-3, the questions are to be given from CO5 and CO6.
- **FACULTY MEMBERS, PLEASE ENSURE EXCEPT ABOVE LISTED SUBJECTS, NO THEORITICAL ELABORATIVE QUESTION SHOULD BE GIVEN IN PART 'C' OF QUESTION PAPER**

INSTRUCTION FOR STUDENTS

- **STUDENT IS ALLOWED TO ENTER LATE NOT MORE THAN 15 MIN AFTER STARTING OF EXAM, AND MAY LEAVE THE EXAM HALL ON EXPIRY OF ATLEAST OF 1 Hr FROM THE STARTING TIME OF EXAMINATION.**

Question Paper & Student Details

Type of Exam	Mid Term 3	Date of Submission	06/03/2021
Name of Faculty	Dr. M.F. Akhtar	Date of Examination	09/03/2021
Course	B.Tech (Aeronautical Engineering)	Semester	SEMESTER : 1
Batch	Twenty-first (21)	Subject	1 FY3 - 06 Programming for Problem Solving (Cr 2)

COURSE OUTCOMES FOR REFERENCE TO FRAME QUESTION PAPER
(Faculties are required to mention relevant Course Outcome number against the respective question in QP)

Course Outcome	CO 5. Implement C programs using operators, type conversion and input-output functions. CO 6. Apply decision making and looping statements in writing C programs.		
Email I'd	fahim@soaneemrana.org	Phone No.	852-108-9715

Student Name			Student Reg No.		

Part A

INSTRUCTIONS FOR PART A: ALL THE QUESTIONS ARE COMPULSORY TO ATTEND

1. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			5

Question : 1	Write the construction rules of identifiers?		
Lesson Plan No. - 18	Topic - Introduction to C	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 2	What is preprocessor directive?		
Lesson Plan No. - 17	Topic - Compilation of Program	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 3	State the need of data types with the concept of C programming.		
Lesson Plan No. - 18	Topic - Data Types	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 4	Describe do – while loop with syntax.		
Lesson Plan No. - 21	Topic - Looping	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 5	Write the equivalent C statements for the following expressions: m ÷ yqw67x k56 – n		
Lesson Plan No. - 20	Topic - Assignment Statement	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

2. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			6

Question : 6	Define sizeof() operator with an example.		
Lesson Plan No. - 19	Topic - Operator	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 7	State declaration of string with a syntax.		
Lesson Plan No. - 23	Topic - String	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 8	What does mean "Function with arguments and with return value" with an example?		
Lesson Plan No. - 27	Topic - Function	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 9	Draw a flowchart of if - else statement with syntax.		
Lesson Plan No. - 20	Topic - if - else statement	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Question : 10	Describe initialization of one-dimensional array with syntax.		
Lesson Plan No. - 23	Topic - Array	Source - Text – Book Programming for problem & Solving by Sazia Haque	CO No. -

Part B

FOR MIDTERM 1 - Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2).
FOR MIDTERM 2 - Part B: Total number of questions to be given are six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4).
FOR MIDTERM 3 - Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6)

3. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.		5

Question : 1	Write a program in C to print the asterisk symbols on given format. * ** *** **** ****	
Lesson Plan No. - 23	Topic - Looping	Source - Text Book -Programming for Problem Solving – by – Sazia Haque	CO No. -

Question : 2	Why you need array in a C Programming? Explain with a suitable program.	
Lesson Plan No. - 23	Topic - Array	Source - Text Book -Programming for Problem Solving – by – Sazia Haque	CO No. -

Question : 3	Write a program in C to SWAP any two numbers using call by value function.	
Lesson Plan No. - 27	Topic - function	Source - Text Book -Programming for Problem Solving – by – Sazia Haque	CO No. -

4. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.		6

Question : 4	Write a program in C to determine whether the character entered is a capital letter, a small case letter, a digit or a special symbol. The following table shows the range of ASCII values for various characters: Character ASCII Values A – Z 65 – 90 a – z 97 – 122 0 – 9 48 – 5.	
Lesson Plan No. - 22	Topic - Program Statement	Source - Text Book -Programming for Problem Solving – by – Sazia Haque	CO No. -

Question : 5	State declaration of structure variable with syntax.	
Lesson Plan No. - 26	Topic - Structure	Source - Text Book -Programming for Problem Solving – by – Sazia Haque	CO No. -

Question : 6	Explain call by reference function with a suitable program.	
Lesson Plan No. - 27	Topic - Function	Source - Text Book -Programming for Problem Solving – by – Sazia Haque	CO No. -

Part C

FOR MIDTERM 1 - Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2).
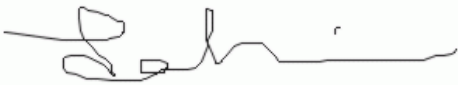**FOR MIDTERM 2 - Part C:** Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4).
FOR MIDTERM 3 - Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6).

5. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.	5
Question : 1	Develop a program in C to initialize two string variable with 'NULL' character and add using in-built string function.

Lesson Plan No. - 24	Topic - String	Source - Text Book - PPS by Sazia Khan	CO No. -

Question : 2	Find error(s) from the following program and rewrite complete program.
	
	`#include`
	`int minarray(int arr[] int size)`
	`{`
	`int min=arr[0];`
	`int i=0;`
	`for(i=1;i {`
	`if(min>arr[i]){`
	`min=arr[i];`
	`}`
	`}`
	`return min;`
	`}`
	
	`int main()`
	`{`
	`int i=0,min=0;`
	`int numbers[ ]={4,5,7,3,8,9};`
	
	`min=minarray(numbers,7);`
	`printf("minimum number is %d n",min);`
	
	`}`		

Lesson Plan No. - 27	Topic - Function	Source - Text Book - PPS by Sazia Khan	CO No. -

6. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.	6

Question : 3	Write a program in C to create a record of 10 employee of record using array of structures. Display the following information of employee : 1. Name of Employee 2. Address of Employee 3. Date of Appointment 4. Salary of Employee 5. Department of Employee

Lesson Plan No. - 26	Topic - Structure	Source - Text Book - PPS by Sazia Khan	CO No. -
Question : 4	Apply the concept of nested for loop and complete the table of 2 to 10 in n C program.		
Lesson Plan No. - 22	Topic - Looping	Source - Text Book - PPS by Sazia Khan	CO No. -

Upload Scanned Document In Case of Numerical or Diagram For Any of The Above Questions. *(Mention question number with relevant fig / numerical / equations. Max 150 KB)*	
I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.	

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