

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 / 48

Instructions For Students / Faculty Mid Term I (Total 40 Marks, 1.5 HRS. Syllabus From Beginning Of Session)

- Part A: Total number of questions to be given are four, 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 five, out of which student has to answer any three. They are long answer type (**Not More Than 50 Words For Question Only**), each carrying 6 marks. Total 18 marks.
- Part C: Total number of questions to be given are three, out of which student has to answer any two. They are numerical answer type / fully elaborative type* (**Not More Than 70 Words For Question Only**), each carrying 7 marks. Total 14 marks.

Mid Term II & III (Total 60 Marks, 2 HRS. Syllabus From Beginning Of Session)

- Part A: Total number of questions to be given are ten, 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, out of which student has to answer any four. They are long answer type (**Not More Than 50 Words For Question Only**), each carrying 5 marks. Total 20 marks.
- Part C: Total number of questions to be given are three, out of which student has to answer any two. They are numerical answer type / fully elaborative type (**Not More Than 70 Words For Question Only**)*, each carrying 10 marks. Total 20 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).

FACULTY MEMBERS, PLEASE ENSURE EXCEPT ABOVE LISTED SUBJECTS, NO THEORITICAL ELABORATIVE QUESTION SHOULD BE GIVEN IN PART 'C' OF QUESTION PAPER.

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	Internal Improvement Exam	Date of Submission	28/11/2020
Name of Faculty	Dr. M.F. Akhtar	Date of Examination	02/12/2020
Course	B.Tech (Aeronautical Engineering)	Semester	SEMESTER : 1
Batch	-	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	Course Outcomes (COs) After completion of this course, the students should able to CO 1. Implement C programs using operators, type conversion and input-output functions. CO 2. Apply decision making and looping statements in writing C programs. CO 3. Develop C programs using the concepts of Arrays and Strings. CO 4. Design applications using structures in C. CO 5. Apply the concepts of functions in writing C programs.		
Email I'd	fahim@soaneemrana.org	Phone No.	852-108-9715
Student Name		Student Reg No.	
Part A			
Question : 1	Write the application of the computer.		
Lesson Plan No. - 1	Topic - Introduction to Computer	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 1.12	CO No. - 1
Question : 2	Convert C 1 F radix 16 to decimal.		
Lesson Plan No. - 3	Topic - Number System Conversion	Source - Prog. For Prob. Sol. By Shazia P. No. 5.4	CO No. - 3
Question : 3	What is the difference between variable and constant with an example?		
Lesson Plan No. - 4	Topic - Introduction to C	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 6.5	CO No. - 4
Question : 4	Explain the architecture of computer with neat diagram.		
Lesson Plan No. - 2	Topic - Stored Program Architecture of Computer	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 1.20	CO No. - 2
Question : 5	Convert 175 radices 8 to Binary.		
Lesson Plan No. - 3	Topic - Number System Conversion	Source - Prog. For Prob. Sol. By Shazia P. No. 5.7	CO No. - 3
Question : 6	Describe the working concept of pre-increment and post-increment with an example.		
Lesson Plan No. - 4	Topic - Operator and Expressions	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 7.5	CO No. - 4
Question : 7	What is the purpose of memory in the computer?		
Lesson Plan No. - 2	Topic - Memory	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 2.1	CO No. - 2
Question : 8	Convert 1 0 0 1 0 1 0 1.1 0 1 radices 2 to decimal number.		
Lesson Plan No. - 3	Topic - Number System Conversion	Source - Prog. For Prob. Sol. By Shazia P. No. 5.6	CO No. - 3

Question : 9	Write the output: #include<conio.h>; void main() {int a = 100, *b; b = &a; printf(" a = %d", a); printf(" *b = %d", *b);}		
Lesson Plan No. - 4	Topic - Concept of Pointers	Source - Prog. For Prob. Sol. By Shazia P. No. 9.6	CO No. - 4
Question : 10	What is type-casting? Explain its type.		
Lesson Plan No. - 2	Topic - Type Casting	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 7.12	CO No. - 2
Part B			
Question : 1	What is the difference between an algorithm and flowchart?		
Lesson Plan No. - 3	Topic - Computer Program Development	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 4.3	CO No. - 3
Question : 2	Find 1's 2's complement of binary number 10101110.		
Lesson Plan No. - 1	Topic - r#39;s complement	Source - Prog. For Prob. Sol. By Shazia P. No. 5.26	CO No. - 1
Question : 3	Write a program in C to calculate factorial of given any number using the function.		
Lesson Plan No. - 2	Topic - Function Program	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 15	CO No. - 2
Question : 4	Explain the function of a microprocessor with CPU and list the name of microprocessors.		
Lesson Plan No. - 4	Topic - Introduction to Computer	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 1.10	CO No. - 4
Question : 5	Describe methods of representing integers and floating-point numbers in the computer.		
Lesson Plan No. - 3	Topic - Data Representation	Source - Prog. For Prob. Sol. By Shazia P. No. 5.51	CO No. - 3
Question : 6	Differentiate between RAM access method and the sequential access method of memory.		
Lesson Plan No. - 2	Topic - Memory Access Method	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 2.14	CO No. - 2
Part C			
Question : 1	Give reasons why assembly languages and high-level languages were designed while computer process only machine language		
Lesson Plan No. - 3	Topic - Computer Languages	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 3.12	CO No. - 3

Question : 2	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 - 57		
Lesson Plan No. - 4	Topic - Decision Making and Control	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 9.10	CO No. - 4
Question : 3	Explain any five techniques of representation of alphabets with an example.		
Lesson Plan No. - 5	Topic - Representation of alphabets	Source - Prog. For Prob. Sol. By Shazia P. No. 5.37	CO No. - 5
Upload Scanned Document In Case of Numerical or Diagram For Any of The Above Questions. <i>(Mention question number with relevant fig / numerical / equations. Max 150 KB)</i>			
I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.		Yes	
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