

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 / 63

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 1	Date of Submission	26/12/2020
Name of Faculty	Dr. M.F. Akhtar	Date of Examination	28/12/2020
Course	B.Tech (Aeronautical Engineering)	Semester	SEMESTER : 1
Batch	Twentieth (20)	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)

1FY3-06 Programming for Problem Solving (Cr 2)

Course Outcome
 Course Outcomes (COs)
 After completion of this course, the students should be 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.

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Student Name		Student Reg No.	
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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.	1
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Question : 1	Define companies with all functional units.		
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Lesson Plan No. - 1	Topic - Introduction to Computer	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 1.1	CO No. -
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Question : 2	Write the uses of super computer.		
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Lesson Plan No. - 1	Topic - Application of Computer	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 1.20	CO No. -
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Question : 3			
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Lesson Plan No. -	Topic -	Source -	CO No. -
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Question : 4			
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Lesson Plan No. -	Topic -	Source -	CO No. -
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2. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.	2
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Question : 5			
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Lesson Plan No. -	Topic -	Source -	CO No. -
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Question : 6	What is a cache memory?		
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Lesson Plan No. - 3	Topic - Memory	Source - Text Book - Prog. for . Problem and Solving By Shazia Haque P.No 2.20	CO No. -
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Question : 7	What is the difference between algorithm and flowchart?		
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Lesson Plan No. - 7	Topic - Flowchart and Algorithms	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No. 4.3	CO No. -
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Question : 8			
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Lesson Plan No. -	Topic -	Source -	CO No. -
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Question : 9			
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Lesson Plan No. -	Topic -	Source -	CO No. -
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Question : 10

Lesson Plan No. -	Topic -	Source -	CO No. -
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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.

1

Question : 1 Explain the generation of computer with technology and their names. Also write the advantages and disadvantages of each computer generation

Lesson Plan No. - 1	Topic - Generation of Computer	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 1.6	CO No. -
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Question : 2 Explain the family of ROM.

Lesson Plan No. - 3	Topic - Types of ROM	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 2.5	CO No. -
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Question : 3 What is the difference between assembly language and machine language? Explain with example.

Lesson Plan No. - 4	Topic - Computer Languages	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 3.2	CO No. -
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4. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.

2

Question : 4 Describe object-oriented programming language with features.

Lesson Plan No. - 5	Topic - HLL	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 3.10	CO No. -
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Question : 5 Write a flowchart to calculate the sum of a numbers.

Lesson Plan No. - 8	Topic - Flowchart	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 4.9	CO No. -
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Question : 6 Write an algorithm to check whether a number is odd or even. Also draw a flowchart for the given problem.


Lesson Plan No. - 8	Topic - Algorithm	Source - Prog. for Prob.Solv. by Shazia Haque P.No.4.10	CO No. -
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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.

1

Question : 1	Give reasons why assembly languages and high-level languages were designed while computer process only machine language.		
Lesson Plan No. - 5	Topic - Computer Languages	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 3.12	CO No. -
Question : 2	Explain the program development life cycle with complete diagram.		
Lesson Plan No. - 8	Topic - PDLC	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 4.3	CO No. -
6. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			2
Question : 3	Draw a various symbol to represent complete flowchart.		
Lesson Plan No. - 7	Topic - Flowchart	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 4.4	CO No. -
Question : 4	What is meant by dynamic memory? Explain secondary memory devices and its subcategory.		
Lesson Plan No. - 4	Topic - Memory	Source - Prog. for Prob.Solv. by Shazia Haque P.No. 2.16	CO No. -
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.			
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