

# 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 / 39

### 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

Mid Term	Mid Term 1	Date of Submission	22/10/2020
Name of Faculty	Dr. M.F. Akhtar	Date of Examination	30/10/2020
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)*

Course Outcome	1FY3-06 Programming for Problem Solving (Cr 2) Course Objectives: <ol style="list-style-type: none"><li>1. Introduction to Computers</li><li>2. Memory</li><li>3. Memory Access Files Method</li><li>4. Computer Languages</li><li>5. Language Translator</li><li>6. Representing algorithms through the flowchart and pseudocode.</li></ol>		
Email I'd	fahim@soaneemrana.org	Phone No.	852-108-9715
Student Name		Student Reg No.	

### Part A

Question : 1	Describe the cache memory.
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Lesson Plan No. - 3	Topic - Memory	Source - SOURCE: Prog. For Problem	CO No. - 2
<b>Question : 2</b>	Differentiate between compiler and interpreter.		
Lesson Plan No. - 7	Topic - Languages Translator	Source - Prog. For Problem Solving Book Page No. 3.6	CO No. - 5
<b>Question : 3</b>	Write the application of computers.		
Lesson Plan No. - 1	Topic - Introduction to Computer	Source - Prog. For Problem Solving Book Page No.1.19	CO No. - 1
<b>Question : 4</b>	Write the characteristics of the algorithm.		
Lesson Plan No. - 8	Topic - Algorithms	Source - For Problem Solving Book Page No. 4.12	CO No. - 6
<b>Question : 5</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Question : 6</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Question : 7</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Question : 8</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Question : 9</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Question : 10</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Part B</b>			
<b>Question : 1</b>	Explain the function of a microprocessor with CPU and list the name of microprocessors.		
Lesson Plan No. - 3	Topic - Memory	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 1.10	CO No. - 2
<b>Question : 2</b>	Differentiate between random access method and a sequential access method of memory.		
Lesson Plan No. - 5	Topic - Memory Access Files Method	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 2.14	CO No. - 3
<b>Question : 3</b>	What is the difference between assembly language and machine language? Explain with example.		
Lesson Plan No. - 6	Topic - Computer Languages	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 3.2	CO No. - 4
<b>Question : 4</b>	Write an algorithm to find the largest of any two numbers		
Lesson Plan No. - 8	Topic - Algorithm	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 4.9	CO No. - 6
<b>Question : 5</b>	Describe object-oriented programming language with features.		
Lesson Plan No. - 6	Topic - object-oriented programming	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 3.10	CO No. - 4
<b>Question : 6</b>			
Lesson Plan No. -	Topic -	Source -	CO No. -
<b>Part C</b>			

<b>Question : 1</b>	Explain various types of memory and each subcategory of memory in detail.		
Lesson Plan No. - 3	Topic - Memory	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 2.4	CO No. - 2
<b>Question : 2</b>	Explain the computer language translator and its types with a diagram.		
Lesson Plan No. - 7	Topic - Language Translator	Source - Text Book - Prog. for Proposal. By Shazia Haque P.No 3.7	CO No. - 6
<b>Question : 3</b>	Write an algorithm to find the Fibonacci series with the complete representation of the flowchart. 0, 1, 1, 2, 3, 5, 8, 13, 21		
Lesson Plan No. - 8	Topic - Algorithm and Flowchart	Source - Class Notes	CO No. - 6
<b>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)</b>			
<b>I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.</b>		Yes	