

# School of Aeronautics (Neemrana)

Question Paper For Back / Re-back Internal Assessment Examination (Theory) - Old Scheme i.e 2012 Syllabus

## Instructions For Students / Faculty

### Back / Re-back Internal Examination (Total 60 Marks, 2 Hrs, Syllabus From Beginning of The Session)

Total number of questions to be given are 10, each carrying 10 marks and it is compulsory to attend 2 questions from Part A and 4 questions from Part B. There is a choice of two questions out of four in part A and 4 questions out of 6 in Part B. Part A will be theoretical or derivation type (**Not More Than 70 Words For Question**). Part B will be fully numerically oriented questions (**Not More Than 70 Words For Question**), except for the list of subjects given below. No objective type or fill in the blanks shall be given, but subpart of question can be given for both Part A & B.

\* **LIST OF ELABORATIVE THEORY QUESTION SUBJECTS:** Aircraft Materials, Aircraft System, Aircraft Rules & Regulation-I, Mechanics of Composite Materials, Aircraft Design, Aircraft Rules & Regulation-II, Avionics-I, Helicopter Theory, Maintenance of Airframe and System Design, Avionics-II, Airlines and Airport Management, Maintenance of Power Plant & Systems

**FACULTY MEMBERS, PLEASE ENSURE EXCEPT ABOVE LISTED SUBJECTS, NO THEORETICAL ELABORATIVE QUESTION SHOULD BE GIVEN IN PART 'B' 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

Name of Faculty*	<input type="text" value="DR. MOHAMMAD FAHIM AKHTAR"/>	Date of Submission of QP	<input type="text" value="27/11/2020"/>
Subject*	<input type="text" value="206 - Fundamentals of Computer Programming (Old)"/>	Date of Examination*	<input type="text" value="01/12/2020"/>
Email Id of Faculty:*	<input type="text" value="fahim@soaneemrana.org"/>	Course*	<input type="text" value="B.Tech (Aeronautical Engineering)"/>
Phone Number of Faculty*	<input type="text" value="852 108 9715"/>	Semester*	<input type="text" value="Semester : 2"/>

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Student Name	<input type="text"/>	Student Reg No.	<input type="text"/>
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## Part A

Question : 1\*

Explain the architecture of computer with neat diagram.

Lesson Plan\*

Topic\*

Source\*

Question : 2\*

Perform  $(1111001.111)_2$  to decimal and write the number of steps for given number system conversion.

Lesson Plan\*

Number System

Topic\*

Binary to Decimal

Source\*

Prog. For Prob. Sol. By S

Question : 3\*

What is a function? Explain types of function in detail with an example.

Lesson Plan\*

Function

Topic\*

Types of Function

Source\*

Prog. for Prob.Solv. by S

Question : 4\*

Explain an array of structures with the help of a suitable program also describe the structure within the structure with an example.

Lesson Plan\*

Structures

Topic\*

Array of structures

Source\*

Prog. for Prob.Solv. by S

## Part B

Question : 1\*

Explain the compilation and execution process in the C programming language with a flowchart.

Lesson Plan\*

Introduction to C

Topic\*

Problem in Specification

Source\*

Prog. for Prob.Solv. by S

Question : 2\*

Write a program to find the length, copy, concatenate, compare and reverse of string using a pre-defined function.

Lesson Plan\*

String

Topic\*

String Built-in Function

Source\*

Prog. for Prob.Solv. by S

Question : 3\*

What is the difference between fixed-point numbers and floating-point numbers? How does it affect the CPU?

Lesson Plan\*

Representation c

Topic\*

fixed point numbers

Source\*

Prog. For Prob. Sol. By S

Question : 4\*

Write a program in C to swap two numbers using a pointer.

Lesson Plan\*

Pointers

Topic\*

Pointers Exercises

Source\*

Prog. for Prob.Solv. by S

Question : 5

Write a program to print 'n' terms of Fibonacci series.

Lesson Plan

Looping

Topic

While Loop

Source

Prog. for Prob.Solv. by S

Question : 6

Write a program in C to create an employee record of five employees and calculate the gross salary of each employee from user input using structures:  
The assumption is as follows:  
a. Name  
b. Department  
c. Date of joining  
d. Basic Salary  
e. TA - Transport Allowance = 2% of Basic Salary  
f. Medical = 2.5 % of Basic Salary.

Lesson Plan

Structures

Topic

Employee Record

Source

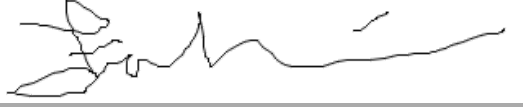
Prog. for Prob.Solv. by S

**Upload Scanned Document In Case of Numerical or Diagram for any of the above question**

Mention question number with relevant fig / numerical / equations.  
Max 150 KB

Choose files or drag here

I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.



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## Question Paper & Student Details

Name of Faculty*	<input type="text" value="Ms.Vijay Laxmi Verma"/>	Date of Submission of QP	<input type="text" value="28/11/2020"/>
Subject*	<input type="text" value="CY-101 - Engineering Chemistry (2017)"/>	Date of Examination*	<input type="text" value="01/12/2020"/>
Email Id of Faculty:*	<input type="text" value="vijaylaxmi@soaneemrana.org"/>	Course*	<input type="text" value="B.Tech (Mechatronics Engineering)"/>
Phone Number of Faculty*	<input type="text" value="931 120 9015"/>	Semester*	<input type="text" value="Semester : 2"/>

Student Name	<input type="text"/>	Student Reg No.	<input type="text"/>
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## Part A

Question : 1\*

- a. What are Net Calorific Value (NCV) and a Gross Calorific Value (GCV) of fuel?  
b. Calgon Conditioning of boiler

Lesson Plan*	<input type="text" value="32"/>	Topic*	<input type="text" value="Fuel"/>	Source*	<input type="text" value="RTU Sample &amp; N.K.Engg"/>
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Question : 2\*

- a. Role of Gypsum in cement
- b. Importance of annealing of glass

Lesson Plan\*

14 & 18

Topic\*

Cement & glass

Source\*

RTU Sample & N.K.Engg

Question : 3\*

- a. Describe Zeolite method of water Softening with its limitations
- b. Discuss preventive measures to minimize the problem of scale formation in boilers

Lesson Plan\*

10 & 12

Topic\*

Water & Corrosion

Source\*

RTU Sample & N.K.Engg

Question : 4\*

- a. What is carbonization of coal ? Explain Beehive coke oven method of coal carbonization
- b. Explain the composition and uses of coal gas

Lesson Plan\*

34

Topic\*

Fuel

Source\*

RTU Sample & N.K.Engg

## Part B

Question : 1\*

Essential parameter of potable water

Lesson Plan\*

9

Topic\*

Water

Source\*

RTU Sample & N.K.Engg

Question : 2\*

- a. Explain theory of wet electrochemical corrosion of metals
- b. Discuss various methods for the prevention of corrosion

Lesson Plan\*

12

Topic\*

Corrosion

Source\*

RTU Sample & N.K.Engg

Question : 3\*

What is cement ? Explain the manufacturing of cement by Rotary Kiln technology with diagram and reactions involved in the process

Lesson Plan\*

14

Topic\*

Cement

Source\*

RTU Sample & N.K.Engg

Question : 4\*

What do you mean by refractory material ? Explain important properties of refractories

Lesson Plan\*

35

Topic\*

Refractory

Source\*

RTU Sample & N.K.Engg

Question : 5

Write about classification of coal on Rank base

Lesson Plan

31

Topic

Fuel

Source

RTU Sample & N.K.Engg

Question : 6

a. What is annealing of glass  
b. Thick Layer lubricating mechanism & its application

Lesson Plan

15 & 18

Topic

Glass & Lubricating

Source

RTU Sample & N.K.Engg

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Vijay Laxmi