

# 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="Ms.Vijay Laxmi Verma"/>	Date of Submission of QP	<input type="text" value="28/11/2020"/>
Subject*	<input type="text" value="1FY2-03 – Engineering Chemistry (New) (Credit-4)"/>	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 (Aeronautical Engineering)"/>
Phone Number of Faculty*	<input type="text" value="931 120 9015"/>	Semester*	<input type="text" value="Semester : 1"/>

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

Question : 1\*

what is hardness of water? How many types of hardness in water define with reaction ?

Lesson Plan\*

Topic\*

Source\*

Question : 2\*

a. Define Calorific Value? Distinguish between gross and net Calorific value  
b. Write short note on Octane Number

Lesson Plan\*

32

Topic\*

Fuel

Source\*

BTU sample Paper & N.I

Question : 3\*

a. Explain the method of Sedimentation in water purifying  
b. What is the role of gypsum in cement

Lesson Plan\*

10 & 14

Topic\*

water & cement

Source\*

BTU sample Paper & N.I

Question : 4\*

Explain the Zeolite method of water softening in detail with regeneration process

Lesson Plan\*

10

Topic\*

water

Source\*

BTU sample Paper & N.I

## Part B

Question : 1\*

Explain the meaning of Tinning in Corrosion control

Lesson Plan\*

12

Topic\*

Corrosion

Source\*

BTU sample Paper & N.I

Question : 2\*

Write Short note on-  
a. Flash & Fire point  
b. Safety Glass

Lesson Plan\*

30

Topic\*

glass

Source\*

BTU sample Paper & N.I

Question : 3\*

Write Short note on Break Point Chlorination

Lesson Plan\*

9

Topic\*

Water

Source\*

BTU sample Paper & N.I

Question : 4\*

what is the unit of hardness? How is it determined by EDTA method with reaction ?

Lesson Plan\*

10

Topic\*

water

Source\*

BTU sample Paper & N.I

Question : 5

What are the functions of Lubricant ? How are they classified?

Lesson Plan

18

Topic

Lubricant

Source

BTU sample Paper & N.I

Question : 6

Write short not on -  
a. Caustic Embrittlement  
b. Emulsification

Lesson Plan

28

Topic

Organic Reaction

Source

BTU sample Paper & N.I

**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.

Vijay Laxmi