

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="Mrs Tarun Thukral"/>	Date of Submission of QP	<input type="text" value="15/03/2021"/>
Subject*	<input type="text" value="7AN1 - Avionics -I (Old)"/>	Date of Examination*	<input type="text" value="16/03/2021"/>
Email Id of Faculty:*	<input type="text" value="tarunthukral@soaneemrana.org"/>	Course*	<input type="text" value="B.Tech (Aeronautical Engineering)"/>
Phone Number of Faculty*	<input type="text" value="750 096 6580"/>	Semester*	<input type="text" value="Semester : 7"/>

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

Question : 1*

Explain the crimping and soldering technique and write the advantages of crimping .

Lesson Plan*	<input type="text" value="2"/>	Topic*	<input type="text" value="Crimping and soldering"/>	Source*	<input type="text" value="Aircraft Electricity and E"/>
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Question : 2*

Give brief description of Magnetron.

Lesson Plan*

11

Topic*

Magnetron

Source*

Microwave devices and

Question : 3*

Write the working principle of
a)-VHF communication system
b)- Audio integration system (AIS)

Lesson Plan*

27

Topic*

VHF and AIS

Source*

AIRCRAFT RADIO SYSTEMS

Question : 4*

Describe the position and velocity determination of GPS .

Lesson Plan*

38

Topic*

GPS

Source*

Mike Tooley/ Kendall

Part B

Question : 1*

Explain MTI (Moving Target Indication).

Lesson Plan*

07

Topic*

MTI

Source*

Radar System by Merrill

Question : 2*

Explain LORAN system.

Lesson Plan*

19

Topic*

Electronic navigation system

Source*

AIRCRAFT RADIO SYSTEI

Question : 3*

Name the emergency equipments and explain electronic emergency equipments.

Lesson Plan*

32

Topic*

Electronic emergency equipme

Source*

AIRCRAFT RADIO SYSTEI

Question : 4*

Describe Antenna theory. Also define Antenna gain and Polarization.

Lesson Plan*

13

Topic*

Antenna

Source*

Antenna theory by Kenr

Question : 5

Describe Cabin Interphone sytem.

Lesson Plan

26

Topic

AIS

Source

AIRCRAFT RADIO SYSTEI

Question : 6

Explain the Advisory warnings and guidance of TCAS.

Lesson Plan

22

Topic

TCAS

Source

Mike Tooley

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.

A rectangular box containing a horizontal line. Above the line, the name 'Tomy' is written in a cursive, handwritten style.