

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="Kuldeep"/>	Date of Submission of QP	<input type="text" value="13/03/2021"/>
Subject*	<input type="text" value="5MH4 - 04 - Electrical Machines (New)"/>	Date of Examination*	<input type="text" value="22/03/2021"/>
Email Id of Faculty:*	<input type="text" value="kuldeep@soaneemrana.org"/>	Course*	<input type="text" value="B.Tech (Mechatronics Engineering)"/>
Phone Number of Faculty*	<input type="text" value="809 496 3883"/>	Semester*	<input type="text" value="Semester : 5"/>

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

Part A

Question : 1*

Define and explain the magneto motive force and magnetic field strength.

Lesson Plan*

Topic*

Source*

Question : 2*

Define and explain the permanent magnet and their applications.

Lesson Plan*

7

Topic*

Permanent magnet

Source*

Electrical machinery by

Question : 3*

Describe and explain the constructions of DC generator in detail.

Lesson Plan*

8

Topic*

DC generator

Source*

Electrical machinery by

Question : 4*

Describe and explain the various characteristics DC shunt and series generator.

Lesson Plan*

13

Topic*

DC shunt and series generator

Source*

Electrical machinery by

Part B

Question : 1*

Define and describe the introduction of DC motor with their principle

Lesson Plan*

19

Topic*

DC motor

Source*

Electrical machinery by

Question : 2*

Explain and define the DC motor starting with their 3 point starter

Lesson Plan*

21

Topic*

DC motor

Source*

Electrical machinery by

Question : 3*

Describe and explain the DC motor electric braking system with their application.

Lesson Plan*

21

Topic*

DC motor

Source*

Electrical machinery by

Question : 4*

Describe and explain the electromechanical energy conversion with their basic principle

Lesson Plan*

25

Topic*

Electromechanical energy

Source*

Electrical machinery by

Question : 5

Describe and explain the special electric machine for example stepper motor with their principle and types.

Lesson Plan

33

Topic

Special electric machine

Source

Electrical machinery by

Question : 6

Describe and explain the brushless DC motor construction and principle of working.

Lesson Plan

40

Topic

Brushless DC motor

Source

Electrical machinery by

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.


