

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 3

Instructions For Students / Faculty

Mid Term I (Total 60 Marks, 2 HRS. Syllabus From Beginning Of Session)

- Part A: Total number of questions to be given are five, each carrying 3 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 15 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**), each carrying 6 marks. Total 24 marks.
- Part C: Total number of questions to be given are four, out of which student has to answer any three. They are numerical answer type / fully elaborative type (**Not More Than 70 Words For Question**)*, each carrying 7 marks. Total 21 marks.

Mid Term II & III (Total 90 Marks, 2.5 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 seven, out of which student has to answer any five. They are long answer type (**Not More Than 50 Words For Question**), each carrying 6 marks. Total 30 marks.
- Part C: Total number of questions to be given are five, out of which student has to answer any four. They are numerical answer type / fully elaborative type (**Not More Than 70 Words For Question**)*, each carrying 10 marks. Total 40 marks.

* LIST OF ELABORATIVE THEORY QUESTION SUBJECTS: 3 MH4 - 07 Manufacturing Process, 4 AN4 - 06 Aircraft Materials and Processes (Cr 3), 5 AN4 - 05 Aircraft System (Cr 3), 6 AN4 - 05 Avionics-I (Cr 3), 6 MH4 - 03 Applied Hydraulics & Pneumatics (Cr 3), 6 MH5 - 11 Principles of Management (Cr 3), 6 MH5 - 13 Aircraft Electronics System (Cr 3), 7 AN5 - 12 Maintenance of Airframe and System (Cr 3), 7 AN5 - 13 Helicopter Theory (Cr 3), 7 AG6 - 60.1 Human Engineering and Safety (Cr 3), 7 ST - 01 Avionics II (Special Theory Subject) (Cr 3), 7 MH5 - 11 Design of Mechatronics Systems (Cr 3), 7 MH5 - 12 Robotics and Machine Vision System (Cr 3), 7 MH6 - 13 Medical Electronics (Cr 3), 7 AN6 - 60.1 Aircraft Avionic System (Cr 3), 8 AN5 - 12 Maintenance of Power Plant and System (Cr 3), 8 AN5 - 13 Unmanned Aerial Vehicles & Systems (UAV) (Cr 3), 8 MH5 - 13 Product Development & Launching (Cr 3), 8 EC6 - 60.2 Robotics and control (Cr 3)

FACULTY MEMBERS, PLEASE ENSURE EXCEPT ABOVE LISTED SUBJECTS, NO THEORITICAL ELABORATIVE QUESTION SHOULD BE GIVEN IN PART 'C' OF QUESTION PAPER

Question Paper & Student Details

QUESTION PAPER SET NUMBER

Mid Term*

Mid Term 3

Date of Submission of QP

07/09/2020



Name of Faculty*

Dr. Birendra Rai

Date of Examination*

29/09/2020



Refresh Form To Get Correct Course Outcome Results, If You Have Chosen Wrong Course / Semester / Subject.

Course*	B.Tech (Aeronautical Engineering) ▼	Semester*	SEMESTER : 7 ▼
Batch	Combined Batches 12, 13, 14 ▼	Phone No. of Faculty*	759 795 8368
Email Id of Faculty*	principal@soaneemrana.org	Subject Sem 7 (A)	7 AG6 - 60.1 Human Engineering... ▼

COURSE OUTCOMES FOR REFERENCE TO FRAME QUESTION PAPER

(Faculties are required to mention relevant Course Outcome number against the respective question in QP)

7 AG6 - 60.1
Human
Engineering and
Safety (Cr 3)

7AG6-60.1: Human Engineering & Safety
Semester: 7

Copy Paste Course
Outcomes Here
From Above Field*

COURSE OUTCOME:
After completion of the course, students will be able to

CO 1: Explain the importance of human engineering and safety in the industrial/organizational field and its machinery/equipment used.

CO 2: Demonstrate human capabilities and limitations in the areas of perception, attention,

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

Question : 1*

Lesson Plan No.*	<input type="text" value="24"/>	Topic*	<input type="text" value="Arrangement anc"/>	Source*	<input type="text" value="Human Engineering and"/>	CO No.	<input type="text" value="5"/>	▼
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Question : 2*

Lesson Plan No.*	<input type="text" value="32"/>	Topic*	<input type="text" value="Dangerous Mach"/>	Source*	<input type="text" value="Human Engineering and"/>	CO No.	<input type="text" value="6"/>	▼
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Question : 3

Lesson Plan No.	<input type="text" value="34"/>	Topic	<input type="text" value="Rehabilitation an"/>	Source	<input type="text" value="Human Engineering and"/>	CO No.	<input type="text" value="6"/>	▼
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Question : 4

Discuss the precautions taken during storage and transport of pesticides.

Lesson Plan No.

37

Topic

Safety gadgets fo

Source

Field Operation and Mai

CO No.

6

Question : 5

What do you understand by personal protective equipment (PPE)?

Lesson Plan No.

36

Topic

Safety gadgets fo

Source

"Farm Machinery and Eq

CO No.

6

Question : 6

Define heat exchange process.

Lesson Plan No.

28

Topic

Heat Transfer (Ex

Source

Human Engineering and

CO No.

5

Question : 7

Define thermal comfort conditions of human being.

Lesson Plan No.

27

Topic

Anthropometry: /

Source

Human Engineering and

CO No.

5

Question : 8

Explain the basic idea of human measurement with its prime motive.

Lesson Plan No.

25

Topic

Anthropometry a

Source

Human Factors Engineer

CO No.

5

Question : 9

Describe the working principles of chaff cutter.

Lesson Plan No.

39

Topic

Chaff cutting ope

Source

"Farm Machinery and Eq

CO No.

6

Question : 10

What do you mean by workmen's compensation?

Lesson Plan No.

35

Topic

Rehabilitation scl

Source

Human Engineering and

CO No.

6

Part B

Question : 1*

Explain the effects of heat on human performance.

Lesson Plan No.*

30

Topic*

Heat Stress and H

Source*

"Human Factor Engineer

CO No.

5

Question : 2*

What are the duties and powers of the inspection Inspector?

Lesson Plan No*

33

Topic*

Dangerous Mach

Source*

Human Engineering and

CO No.

6

Question : 3*

What is threshing? Explain the different methods of threshing.

Lesson Plan*

38

Topic*

Threshing

Source*

"Farm Machinery and Eq

CO No.

6

Question : 4

What are the types of cutter head of chaff cutter machine?

Lesson Plan No.

39

Topic

Chaff cutting ope

Source

"Farm Machinery and Eq

CO No.

6

Question : 5

What is global warming? What is its affect?

Lesson Plan No.

26

Topic

Anthropometry: /

Source

HUMAN FACTORS ENGIN

CO No.

5

Question : 6

Explain the classifications of wheel tractor on the basis of purpose of tractor.

Lesson Plan No. 40 Topic Tractor & trailer c Source "Tractor Design and Test CO No. 6 ▼

Question : 7

Explain in detail employee's entitlement to compensation.

Lesson Plan No. 34 Topic Rehabilitation an Source Human Engineering and CO No. 6 ▼

Part C

Question : 1*

Which machines are Dangerous machines as per the Dangerous machine (Regulation) Act 1983 (DMRA-1983)?

Lesson Plan No.* 31 Topic* Dangerous Mach Source* Human Engineering and CO No. 6 ▼

Question : 2*

What is the basic policy for formulation of a quantitative percentage of loss of earning capacity depending upon the injury?

Lesson Plan No.* 35 Topic* Rehabilitation scl Source* Human Engineering and CO No. 5 ▼

Question : 3

What are the main components of a tractor? Explain any one of them.

Lesson Plan No.* 40 Topic* Tractor & trailer c Source* Tractor Design and Testi CO No. 6 ▼

Question : 4

Explain in detail the techniques for creating a warm, welcoming and productive workplace environment.

Lesson Plan No.*

24

Topic*

Arrangement anc

Source*

Human Engineering and

CO No.

5

Question : 5

Discuss the changes suggested in DMRA-1983 for better implementation of the act by the Government.

Lesson Plan No.

33

Topic

Dangerous Mach

Source

Human Engineering and

CO No.

6

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.



Clear