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 2 / 128

Instructions for Students / Faculty

Mid Term I (Total 40 Marks, 1.5 HRS., Syllabus from Unit-1)

- Part A: Total number of questions to be given are four (2 from CO1 and 2 from CO2), 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 8 marks.
- Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2). They are long answer type (Not More Than 50 Words for Question Only), each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2). They are numerical answer type / fully elaborative type* (Not More Than 70 Words for Question Only), each carrying 8 marks. Total 16 marks.

Mid Term II (Total 60 Marks, 2 HRS., Syllabus from Unit- 2)

- Part A: Total number of questions to be given are ten (5 from CO3 and 5 from CO4), 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 six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4). They are long answer type (Not More Than 50 Words for Question Only), each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4). They are numerical answer type / fully elaborative type (Not More Than 70 Words For Question Only) *, each carrying 12 marks. Total 24 marks.

Mid Term III (Total 60 Marks, 2 HRS., Syllabus from Unit- 3)

- Part A: Total number of questions to be given are ten (5 from CO5 and 5 from CO6), 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 six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6). They are long answer type (Not More Than 50 Words for Question Only), each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6). They are numerical answer type / fully elaborative type (Not More Than 70 Words For Question Only) *, each carrying 12 marks. Total 24 marks.

* LIST OF ELABORATIVE THEORY QUESTION SUBJECTS: 1 FY1 - 04 Communication Skills (Cr 2), 1 FY1 - 05 Human Values (Cr 2), 2 FY1 - 04 Communication Skills (Cr 2), 2 FY1 - 05 Human Values (Cr 2), 3 AN1 - 02 Technical Communications (Cr 2), 4 MH1 - 03 Economics and Financial Accounting (Cr 2), 5 AN5 - 12 Aircraft Maintenance Practices (Cr 2), 6 AN3 - 01 Mechanics of Composite Materials (Cr 2), 6 AN5 - 12 Aircraft Rules and Regulation (Cr 2), 6 MH3 - 01 Automobile Engineering (Cr 2).

Instructions For Faculties:

There should be total 6 Course Outcomes (COs) for each subject.

- Mid Term Question Papers are to be submitted as per Course Outcomes (COs) which should be divided equally in Part A, Part B and Part C according to Mid Term Examination and Credit Point.
- In Mid Term-1, the questions are to be given from CO1 and CO2. In Mid Term-2, the questions are to be given from CO3 and CO4. Similarly, in Mid Term-3, the questions are to be given from CO5 and CO6.
- FACULTY MEMBERS, PLEASE ENSURE EXCEPT ABOVE LISTED SUBJECTS, NO THEORITICAL ELABORATIVE QUESTION SHOULD BE GIVEN IN PART 'C' OF QUESTION PAPER

INSTRUCTION FOR STUDENTS

• 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

| Type of Exam | Mid Term 2 | Date of Submission | 21/07/2021 | | |
|---|--|---------------------|--|--|--|
| Name of Faculty | Mr. Rahul Dev Bairwan | Date of Examination | 27/07/2021 | | |
| Course | B.Tech (Aeronautical Engineering) | Semester | SEMESTER:2 | | |
| Batch | Twentieth (20) | Subject | 2 FY3 - 07 Basic Mechanical Engineering (Cr 2) | | |
| COURSE OUTCOMES FOR REFERENCE TO FRAME QUESTION PAPER (Faculties are required to mention relevant Course Outcome number against the respective question in QP) | | | | | |
| Course Outcome | CO 3. Explain the basics of refrigeration and internal combustion engines. CO 4. Apply the mechanism of power transfer through belt, rope, chain and gear drives in various Engineering applications. | | | | |
| Email I'd | rahuldevbairwan@soaneemrana.org | Phone No. | 945-634-1170 | | |
| Student Name | | Student Reg No. | | | |
| Part A | | | | | |
| INSTRUCTIONS FOR PART A: ALL THE QUESTIONS ARE COMPULSORY TO ATTEND | | | | | |
| | | | | | |

| 1. CHOOS INSTRUCT | e course outcome (co) num Tons above. | BER ACCORDING TO THE TYPE OF MIDTERM, AS PER | 3 | | |
|---|--|---|-------|--|--|
| Question : 1 | Define the function of evaporator. | | | | |
| Lesson Plan No. - 11 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 2 | Define the function of a condenser. | | | | |
| Lesson Plan No. - 10 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 3 | Define the function of air-filter. | | | | |
| Lesson Plan No 13 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 4 | Define air conditioning. | | | | |
| Lesson Plan No 13 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 5 | Define refrigeration. | | | | |
| Lesson Plan No 10 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| 2. CHOOS INSTRUCT | COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER 4 | | | | |
| Question : 6 | Define a belt. | | | | |
| Lesson Plan No 14 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 7 | Define open belt drive. | | | | |
| Lesson Plan No 15 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 8 | Name the materials used for making b | pelts. | | | |
| Lesson Plan No 14 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 9 | Define velocity ratio. | | | | |
| Lesson Plan No 16 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Question : 10 | Define a gear train. | | | | |
| Lesson Plan No 17 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | |
| Part B | | | | | |
| FOR MIDTERM 1 - Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2). FOR MIDTERM 2 - Part B: Total number of questions to be given are six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4). FOR MIDTERM 3 - Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO4). FOR MIDTERM 3 - Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6) | | | | | |
| 3. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE. | | | | | |
| Question : 1 | uestion 1 Draw the neat sketch of Vapour Compression refrigeration cycle. Explain the components. | | | | |
| Corporate Office: H 974, Palam Extension, Part 1, Sector 7, Dwarka. New Delhi 110077 | | | | | |

| Lesson Plan No 11 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | | | |
|---|--|---|---|--|--|--|--|
| Question : 2 | Write a note on refrigeration. Explain its principle. | | | | | | |
| Lesson Plan No 10 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | | | |
| Question : 3 | Draw the neat sketch of window air-conditioner. Explain the components. | | | | | | |
| Lesson Plan No 13 | Topic - Refrigeration and Air Conditioning | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | | | |
| 4. CHOOS | 4. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER 4 | | | | | | |
| Question : 4 | Explain the types of belts. | | | | | | |
| Lesson Plan No 14 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | | | |
| Question : 5 | Write the advantages & disadvantages of gears. | | | | | | |
| Lesson Plan No 16 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | | | |
| Question : 6 | Write the advantages & disadvantages of rope drive. | | | | | | |
| Lesson Plan No 16 | Topic - Transmission of Power | Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | CO No | | | | |
| Part C | | | | | | | |
| FOR MIDTERM 1 - Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2). FOR MIDTERM 2 - Part C: Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4). FOR MIDTERM 3 - Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4). FOR MIDTERM 3 - Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO5). FOR MIDTERM 3 - Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6). | | | | | | | |
| FOR MIDT CO4). FOR MIDT CO6). | ERM 2 - Part C: Total number of qu | uestions to be given are four (2 from CO3 and 2 from CO4), uestions to be given are four (2 from CO5 and 2 from CO6 |), out of which student has to answer two (1 from CO3 and 1 from CO2). | | | | |
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| 5. CHOOS INSTRUCT Question : 1 Lesson Plan No. - 12 | ERM 2 - Part C: Total number of quee ERM 3 - Part C: Total number of quee E COURSE OUTCOME (CO) NUMI TONS ABOVE. Briefly explain the working of Vapour A Topic - Refrigeration & Air Conditioning | BER ACCORDING TO THE TYPE OF MIDTERM, AS PER Absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar | 3 CO No | | | | |
| FOR MIDT CO4). FOR MIDT CO6). 5. CHOOS INSTRUCT Question : 1 Lesson Plan No. - 12 Question : 2 | ERM 2 - Part C: Total number of quee ERM 3 - Part C: Total number of quee E COURSE OUTCOME (CO) NUMI FIONS ABOVE. Briefly explain the working of Vapour / Topic - Refrigeration & Air Conditioning Explain the construction of Window ai | Absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya |), out of which student has to answer two (1 from CO3 and 1 from C), out of which student has to answer any two (1 from CO3 and 1 from), out of which student has to answer any two (1 from CO5 and 1 from 3 | | | | |
| 5. CHOOS INSTRUCT Question : 1 Lesson Plan No. - 12 Question : 2 Lesson Plan No. - 10 | ERM 2 - Part C: Total number of que ERM 3 - Part C: Total number of que ECOURSE OUTCOME (CO) NUM FIONS ABOVE. Briefly explain the working of Vapour / Topic - Refrigeration & Air Conditioning Explain the construction of Window ai Topic - Refrigeration & Air Conditioning | Absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | bit of which student has to answer any two (1 from CO3 and 1 from CO3, and 1 from CO3 and 1 from co1, out of which student has to answer any two (1 from CO5 and 1 from 3), out of which student has to answer any two (1 from CO5 and 1 from CO5 and 1 from CO5, and 1 from co1, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO3, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to answer any two (1 from CO5, and 1 from co3, out of which student has to any two (1 from CO5, and 1 from co3, out of which student has to any two (1 from co3, out of which student has to any two (1 from | | | | |
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| FOR MIDT CO4). FOR MIDT CO6). 5. CHOOS INSTRUCT Question : 1 Lesson Plan No. - 12 Question : 2 Lesson Plan No. - 10 6. CHOOS INSTRUCT Question : 3 | ERM 2 - Part C: Total number of quere FRM 3 - Part C: Total number of | estions to be given are four (2 from CO3 and 2 from CO4), uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 BER ACCORDING TO THE TYPE OF MIDTERM, AS PER Absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya r conditioner. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya BER ACCORDING TO THE TYPE OF MIDTERM, AS PER sby belt drive. | bit of which student has to answer any two (1 from CO3 and 1 from C), out of which student has to answer any two (1 from CO5 and 1 from 3), out of which student has to answer any two (1 from CO5 and 1 from 3) 3 CO No 4 | | | | |
| FOR MIDT CO4). FOR MIDT CO6). 5. CHOOS INSTRUCT Question : 1 Lesson Plan No. - 12 Question : 2 Lesson Plan No. - 10 6. CHOOS INSTRUCT Question : 3 Lesson Plan No. - 14 | ERM 2 - Part C: Total number of que ERM 3 - Part C: Total number of que ECOURSE OUTCOME (CO) NUM FIONS ABOVE. Briefly explain the working of Vapour / Topic - Refrigeration & Air Conditioning Explain the construction of Window ai Topic - Refrigeration & Air Conditioning E COURSE OUTCOME (CO) NUM FIONS ABOVE. Derive an expression for ratio tensions Topic - Transmission of Power | BER ACCORDING TO THE TYPE OF MIDTERM, AS PER Absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | bit of which student has to answer wo (1 from CO3 and 1 from CO3 and 1 from CO3 and 1 from CO3 and 1 from 0), out of which student has to answer any two (1 from CO5 and 1 from CO5 and 1 from CO No CO No 4 CO No | | | | |
| FOR MIDT CO4). FOR MIDT CO6). 5. CHOOS INSTRUC1 Question : 1 Lesson Plan No. - 12 Question : 2 Lesson Plan No. - 10 6. CHOOS INSTRUC1 Question : 3 Lesson Plan No. - 14 Question : 4 | ERM 2 - Part C: Total number of que ERM 3 - Part C: Total number of que ECOURSE OUTCOME (CO) NUM FIONS ABOVE. Briefly explain the working of Vapour / Topic - Refrigeration & Air Conditioning Explain the construction of Window ai Topic - Refrigeration & Air Conditioning ECOURSE OUTCOME (CO) NUM FIONS ABOVE. Derive an expression for ratio tensions Topic - Transmission of Power Derive an expression for length for ope | estions to be given are four (2 from CO3 and 2 from CO4), uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 BER ACCORDING TO THE TYPE OF MIDTERM, AS PER Absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya r conditioner. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya BER ACCORDING TO THE TYPE OF MIDTERM, AS PER BER ACCORDING TO THE TYPE OF MIDTERM, AS PER s by belt drive. | bit of which student has to answer any two (1 from CO3 and 1 from), out of which student has to answer any two (1 from CO5 and 1 from 3 CO No 4 CO No CO No | | | | |
| FOR MIDT CO4). FOR MIDT CO4). FOR MIDT CO6). 5. CHOOS INSTRUCT Question : 1 Lesson Plan No. - 12 Question : 2 Lesson Plan No. - 10 6. CHOOS INSTRUCT Question : 3 Lesson Plan No. - 14 Question : 4 Lesson Plan No. - 15 | ERM 2 - Part C: Total number of queries and the organism of the second s | estions to be given are four (2 from CO3 and 2 from CO4, uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 uestions to be given are four (2 from CO5 and 2 from CO4 absorption refrigeration system. Source - Basic Mechanical Engineering by Dr. Arun Kumar an belt drive. Source - Basic Mechanical Engineering by Dr. Arun Kumar an belt drive. Source - Basic Mechanical Engineering by Dr. Arun Kumar Arya | bit of which student has to answer any two (1 from CO3 and 1 from a), out of which student has to answer any two (1 from CO5 and 1 from a co No 4 co No co No co No co No | | | | |

| Upload Scanned Document In Case of Numerical or Diagram For Any of The Above Questions. (Mention question number with relevant fig / numerical / equations. Max 150 KB) | | |
|---|-------|--|
| I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question. | Rohul | |
| Corporate Office: H 974, Palam Extension, Part 1, Sector 7, Dwarka, New Delhi 110077 | | |

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