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 / 106

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 Communication (Cr 2), 4 MH1 - 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 1	**Date of Submission**	18/06/2021
Name of Faculty	Mr. Manbir Singh	**Date of Examination**	30/06/2021
Course	B.Tech (Aeronautical Engineering)	**Semester**	SEMESTER : 2
Batch	Twentieth (20)	**Subject**	2 FY3 - 09 Basic Civil 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 1. Understand the importance of engineering, especially role of civil Engineers in the society. CO 2. Illustrate the Surveying procedure and different Measurements techniques followed.		
Email I'd	manbirsingh@soaneemrana.org	**Phone No.**	807-648-5892
Student Name		**Student Reg No.**	

Part A

INSTRUCTIONS FOR PART A: ALL THE QUESTIONS ARE COMPULSORY TO ATTEND			
1. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			1
Question : 1	Explain the various objectives of civil engineering.		
Lesson Plan No. - 1	Topic - Introduction to civil engineering.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 2	Define and explain the Specialization of civil engineering in transportation.		
Lesson Plan No. - 3	Topic - Specialization of civil.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 3			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 4			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 5			
Lesson Plan No. -	Topic -	Source -	CO No. -
2. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			2
Question : 6	Define and explain the Specialization of civil engineering in geotechnical engineering.		
Lesson Plan No. - 3	Topic - Specialization of civil.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 7	Explain the linear measurement		
Lesson Plan No. - 2	Topic - Linear measurement.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 8			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 9			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 10			
Lesson Plan No. -	Topic -	Source -	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 CO6)

3. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			1
Question : 1	Explain the direct method of linear measurement in detail.		
Lesson Plan No. - 8	Topic - Linear measurement.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 2	Describe the steel tape and invar tape.		
Lesson Plan No. - 9	Topic - Surveying.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 3	Explain in detail types of Surveying.		
Lesson Plan No. - 9	Topic - Surveying.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
4. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			2
Question : 4	Draw a plain scale 1 cm to 10 meter and show on it 86 meters.		
Lesson Plan No. - 4	Topic - Linear measurement.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 5	Explain the Role of civil engineering in construction of bridges.		
Lesson Plan No. - 5	Topic - Role of civil engineering.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 6	Define and explain the plain and diagonal scale.		
Lesson Plan No. - 6	Topic - Scale.	Source - Basic civil engineering by A.K. Dwivedi.	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 CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6).

5. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			1
Question : 1	Explain in detail the introduction to total station.		
Lesson Plan No. - 10	Topic - Total station	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 2	Define and explain the leveling instrument.		
Lesson Plan No. - 11	Topic - Leveling.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
6. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			2

Question : 3	Explain in detail the advantages of compass surveying.		
Lesson Plan No. - 10	Topic - Compass surveying.	Source - Basic civil engineering by A.K. Dwivedi.	CO No. -
Question : 4	Define and explain the bearing and longitude.		
Lesson Plan No. - 11	Topic - Compass surveying.	Source - Basic civil engineering by A.K. Dwivedi.	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.