

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2082 Chaitra

Exam.	Regular (New Course)		
Level	BE	Full Marks	30
Programme	BCE	Pass Marks	12
Year / Part	II / I	Time	1 1/2 hrs.

Subject: - Computer Aided Civil Drawing (ENCE 204)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

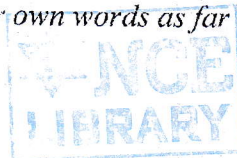
1. What is Computer Aided Design and Drafting? Explain its uses in civil engineering. [3]
2. Write specific use of 2D drawings in civil engineering and list out common 2D, CADD software. [2]
3. Explain different types of coordinate system in AutoCAD. [2]
4. Write in details how to create a block in AutoCAD. Explain its advantages. [3]
5. Differentiate between model space and layout space and their uses in AutoCAD. [3]
6. Sketch and label typical canal cross section in complete fill. [2]
7. Sketch and label typical hill road section in complete fill. [2]
8. List out the detail information to be included in location map and site plan. [2]
9. Sketch and label typical section of 4 m height cantilever retaining wall. [2]
10. How will you create L-section and Cross section from contour map using SW-DTM? Write in detail steps. [5]
11. Define Building Information Modeling (BIM) and common data environment (CDE). [2]
12. What are the differences between BIM and Computer Aided Design and Drawing? [2]

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2082 Kartik

Exam.	Back (New Course)		
Level	BE	Full Marks	30
Programme	BCE	Pass Marks	12
Year / Part	II / I	Time	1 1/2 hrs.

Subject: - Computer Aided Civil Drawing (ENCE 204)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.



1. Define Computer Aided design & drafting. Write down advantages of CADD over manual drawings. [3]
2. What are the fields where CADD is popularly used? [2]
3. Explain the steps to change units and scales for a drawing in AutoCAD. [2]
4. What are differences between annotative and standard dimensioning in AutoCAD? [2]
5. Write the steps to set up a new layer and new layer properties in AutoCAD. [2]
6. Write steps to create A3 layouts in AutoCAD with scale of 1:100. [2]
7. Sketch a typical title block and write typical information to be included in it. [4]
8. How can you create contour and L-sections from a survey data using SW-DTM? [2]
9. Sketch and label a typical canal section in complete fill. [2]
10. Sketch and label common typical section of retaining walls. [2]
11. List out the drawings to be included in municipal Structural drawings. [3]
12. What are the major advantages of BIM over traditional CADD? [2]
13. What is common data environment and write its advantages. [2]

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2081 Chaitra

Exam.	Regular (New Course)		
Level	BE	Full Marks	30
Programme	BCE	Pass Marks	12
Year / Part	II / I	Time	1 1/2 hrs.

Subject: - Computer Aided Civil Drawing (ENCE 204)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate **Full Marks**.
- ✓ Assume suitable data if necessary.



1. Define computer aided design & drafting. List out the advantage & disadvantage of CADD in civil engineering. [3]
2. Write specific use of 3D drawings in engineering and list out common 3D, CADD software. [2]
3. Explain the steps to change units and scales for a drawing in AutoCAD. [2]
4. What are layers and blocks in AutoCAD? Explain how do you use block and layers while drafting. [3]
5. Write the steps to set up a new dimension style in AutoCAD. [2]
6. Write steps to create different types of Array in AutoCAD. [2]
7. Sketch a typical location map and site plan with detail information to be included. [4]
8. List the uses of SW-DTM. [2]
9. Sketch and label a typical canal section in complete cut. [2]
10. Sketch and label a typical hill road section in partial cut and fill. [2]
11. List out the drawings to be included in municipal architectural drawings. [2]
12. How is BIM different from traditional CAD-based drafting? [2]
13. What is common data environment? Write its advantages. [2]
