Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, December 2020

Programme Name:B. Tech Civil EngineeringSemester: IIICourse Name: Computer-Aided Civil Engineering DesignTime: 03 hrsCourse Code: CIVL2013Max. Marks : 100

Nos. of page(s) : 02

## **SECTION A**

1. Each Question carries 5 Marks

2. Instruction: Complete the statement / Select the correct answer(s)

S. No.		Marks	CO
Q 1	The five important basic AutoCAD commands used in this course are,	5	CO1
Q 2	Different types of part-bricks, which are used in brickwork, are, and	5	CO2
Q 3	The four types of shallow foundations are, and	5	CO2
Q 4	Five major parts of a staircase are,,,,,,	5	CO2
Q 5	The five major group of building drawings are,, and	5	СОЗ
Q6	The bar bending schedule is mainly used by,, and	5	CO4

## **SECTION B**

- 1. Each question carries 10 marks.
- 2. Instruction: Write short / brief notes and draw neat diagrams using pencil and other drawing means. Colored pencil can also be used for enhancing the drawing.

Q 7	With the help of a flow-chart, explain the process of drawing, hatching and dimensioning of a trapezoid in AutoCAD.	10	CO1
Q 8	Draw the plan and section of different types of typical staircase layouts.	10	CO2
Q 9	Neatly draw and compare various types of shallow foundation based on their benefits and their applications.	10	CO2

Q 10	Mention the key components of a site plan of a building. Draw a site plan of a residential building, specially exhibiting major connections of the building and other adjoining features.	10	CO3				
Q 11	Discuss the provision of using steel as a suitable reinforcing material. List down the advantages of the bar bending schedule in civil engineering construction.  OR  List various types of structural drawings. Differentiate between the General Arrangement Drawings (GAD) and Sanction drawings.	10	CO4				
	SECTION-C						
1. Each	question carries 20 marks						
2. Instruction: Write detailed notes and draw neat diagrams using pencil and other drawing means. Colored pencil can also be used to enhance the drawing.							
Q 12	List and briefly explain various components of super-structure and sub-structure of a						
	residential building during its construction.						
	<u>OR</u>						
		20	CO3				
	Compare at least seven types of buildings based on their function, architecture,						
	major parts and components, and any specific civil engineering intervention required						
	for that type of building.						