Name:

Enrolment No:



UPES End Semester Examination, December 2024

Course: Engineering Economics, Estimation and Costing Program: B.Tech. Civil Engineering Course Code: CIVL 4066 Semester: VII Time: 03 hrs. Max. Marks: 100

Instructions: Assume suitable values for any missing.

SECTION A (50x4M=20Marks)			
S. No.		Marks	СО
Q 1.	What is the concept of break-even analysis, and how does it hold significance in economic decision-making?	04	CO1
Q 2.	Define open and closed economies and outline the primary ways in which countries engage in international interactions.	04	CO1
Q 3.	Explain the concept of "general specifications" and provide an example of general specifications details for any item of work.	04	CO2
Q 4.	What do you understand by Bar Bending Schedule? State its relevance.	04	CO4
Q 5.	What is the significance of a linear demand curve in market analysis?	04	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6.	a. State the importance of estimation in civil engineering projects and what are the main factors affecting it?b. Estimate the reinforcement steel required in 12m x 12 m continuous RCC slab of thickness 100 mm.	05+05	CO4
Q 7.	Explain the concept of Gross National Product (GNP), and why it is significant in macroeconomics? Additionally, how does GNP differ from Gross Domestic Product (GDP)? OR Explain the concept of Gross National Income (GNI) along with its relevance in macroeconomics.	10	C01
Q 8.	A project with a 5-year life and a cost of Rs. 3,25,000 generates revenue of Rs. 48,000 in year 1, Rs. 67,000 in year 2, Rs. 95, 000 in year 3, Rs. 1,00,000 in year 4 and Rs. 110,000 in year 5. If the discount rate is 15%, Can project be accepted? Year Cash Flow DCF @ 15% Present Value.	10	CO1
Q 9.	Estimate the quantities of earthwork, concrete, brickwork, and finishing work in the steps given below in the drawings:	10	CO2



