Question Paper Code: U6401

B.E. / B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

Professional Elective

Civil Engineering

	210	CEV407- HYD	ROGRAPHIC SURVEYING		
		(Reg	gulations 2021)		
Dur	ation: Three hours			Maximum: 10	00 Marks
		Answe	r ALL Questions		
		PART A	$-(5 \times 1 = 5 \text{ Marks})$		
1.	Which of the following doesn't describe the use of hydrogr			veying?	CO1-U
	(a) Laying an Alignment		(b) Making undergro	(b) Making underground investigat	
	(c) Nautical charts for navigation		(d) Establishing mea	(d) Establishing mean sea level	
2.	The linear variable differential transformer transducer is				CO1-U
	(a) Inductive transducer		(b) Non-inductive tra	(b) Non-inductive transducer	
	(c) Capacitive transducer		(d) Resistive transdo	(d) Resistive transducer	
3.	During which year the project on GPS was launched?			CO1-U	
	(a) 1970	(b) 1971	(c) 1972	(d) 1973	
4.	What is the reduced l datum.	evel of the sub	o-marine surface in terms of	the adopted	CO1-U
	(a) Reduced sounding	(b) Elevation	(c) Datum Surface	(d) Bench	mark
5.	What are the sources of sediments causing marine pollution?				CO1-U
	(a) Deforestration		(b) Soil erosion		
	(c) Mining & Farming		(d) All of the above		
		PART – E	3 (5 x 3= 15 Marks)		
6.	What do you mean by	tidal theory?			CO1 U
7.	What do you mean cali	bration in transc	ducers?		CO1 U

What do you mean Real-time kinematic (RTK).

CO1 U

9.	Diff	fferentiate between ground and track control.		
10.	Why	Warine Environmental Measurements is needed?	CO1 U	
		$PART - C (5 \times 16 = 80 \text{ Marks})$		
11.	(a)	Explain about the Indian tides in detail.	CO1- U	(16)
		Or		
	(b)	Interpret briefly about the various types of indian tides in detail.	CO1- U	(16)
12.	(a)	Explore the causes, effects and preventive measures of echo sounders in detail.	CO1- U	(16)
	(b)	Or Explain briefly about the Working principle of echo sounders in detail.	CO1- U	(16)
13.	(a)	Enumerate various basic elements in concept of line and surface of position	CO1- U	(16)
		Or		
	(b)	Construct the Horizontal positioning methods in detail.	CO1- U	(16)
14.	(a)	Explain the various projections in ground and track control in detail. Or	CO1- U	(16)
	(b)	Explain in detail about inshore hydrographic survey in detail.	CO1- U	(16)
15.	(a)	Explain in detail about the Methods of measuring and recording of currents.	CO1- U	(16)
		Or		
	(b)	Explain briefly about composition of the sea bed.	CO1- U	(16)