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Reg. No.:						

Question Paper Code: U1407

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Civil Engineering

21UCEV407- HYDROGRAPHIC SURVEYING

	21		tions 2021)	3						
Dura	ation: Three hours	Maximum: 100 Marks								
		Answer A	all Questions							
	PART A - $(10 \times 1 = 10 \text{ Marks})$									
1.	What is length of the	sounding rod or pole	?		CO1 -U					
	(a) 7-8 m	(b) 5-8 m	(c) 10-18 m	(d) 15-18 m						
2.	Which among the fol	llowing is the tide of	minimum rise?		CO1 -U					
	(a) Spring Tide	(b) Low Tide	(c) Ebb Tide	(d) None of them						
3.	The process of measurement	uring depth below the	water surface is called _		CO1 -U					
	(a) Sounding	(b) Chaining	(c) Traversing	(d) Compass traversing						
4.	Thermistor is a transe	ducer. Its temperature	coefficient is		CO1 -U					
	(a) Negative	(d) None of these								
5.	During which year th	ne project on GPS was	s launched?		CO1 -U					
	(a) 1970	(b) 1971	(c) 1972	(d) 1973						
6.	Which among the following can be possessed by the horizontal control?									
	(a) Chaining	(b) Triangulation	(c) Theodolite	(d) Compass						
7.	What is the use of sta		CO1 -U							
	(a) Ranging	(b) fixing	(c) plotting	(d) sighting						
8.	What is the name of of sounding?		CO1 -U							
	(a) Mini drafter	(d) Plotting scale								

9.	The time range of marine survey can be given as CO1											
	(a) 3	3-18 hrs	(b) 2-8	hrs	(c) 3-8 hrs		(d) 13-	-18 hrs				
10.		at are the ution?	sources of	pathogenic	organism	on marine		CO	O1 -U			
	(a) S	Sewage	(b)Live	stock waste	(c) Both A	& B	(d) No	ne of them				
]	PART – B (5	x 2= 10 Ma	rks)						
11.	What do you mean by nautical charts?											
12.	Differentiate between echo sounders and transducers CO1 -U											
13.	What do you mean Real-time kinematic (RTK). CO1 -U											
14.	Diff	ferentiate bet	ween ground	and track co	ntrol.			CO1	-U			
15.	Wha	at are the role	es of the hyd	rographic sur	veyor on dif	ferent marin	e projec	ts? CO1	CO1 -U			
				PART – C ($(5 \times 16 = 80)$	Marks)						
16.	(a)	Interpret br	iefly about th	ne various typ Or	es of record	ling tide gau	ges.	CO3 App	(16)			
	(b)	Interpret br	iefly about th	ne various typ	es of vertica	al datums in	detail.	CO3 App	(16)			
17.	(a)	Explain bri detail.	iefly about	the Working	principle o	of echo soun	ders in	CO1 U	(16)			
				Or								
	(b)	Explain bri	efly about the	e depth data t	ypes-in deta	il.		CO1 U	(16)			
18.	(a)	Interpret the systems in	_	of navigation	on using s	atellite posi	tioning	CO1 U	(16)			
				Or								
	(b)	Enumerate detail.	various con	nponents of	Real-time k	rinematic (R	TK) in	CO1 U	(16)			
19.	(a)	Explain the surveys in o	_	ractical soun	dings in ii	nshore and	coastal	CO1 U	(16)			
				Or								
	(b)	Explain the	various proj	ections in gro	ound and tra	ck control in	detail	CO1 U	(16)			
20.	(a)	Explain bri	efly about co	mposition of Or	the sea bed.			CO1 U	(16)			
	(b)	Explain in currents	detail about	the Methods	of measuring	ng and recor	ding of	CO1 U	(16)			