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SARDAR PATEL UNIVERSITY No. of Printed Pages: 2

T.Y.B.Sc.6th SEMESTER EXAMINATION 2nd APRIL 2018, Monday

10.00 AM to 1.00 PM

Oceanography & Remote Sensing (US06CENV04)

Total Marks-70

O.1 Colort the common	t amorrous and worits in a	tot toods vorron	10
Q.1 Select the correc	t answer and write in a	mswer sneet	10
1. Between depths,	the temperature decline	s rapidly throughout m	uch of the ocean.
a. 2000 & 4000 m	b. 100 & 200 m	c. 200 & 1000m	d. 500 & 6000m
2. The is an underv	vater mountain range.		·
a. continental slope	b. mid-ocean ridge	c. continental shelf	d. guyot
3. Tides may not be affect	ed by feature	e.	
a. Oceanic physiographic			d. Moon
4. In hydrology, $P = R + I$	where, R stands for		
	b. reservoir		d. retaining time
5. Hydrological experimen	nts were completed on c	otton during 1994 by _	
a. Friend	b. Bunce	c. Korner	d. Hunsaker
6. There are mainly			
a. five	b. four	c. three	d. two
7. The continuum of solar	radiation is divided into	several division which	is known as
a. bands	b. scales	c. light	d. platform
8. Wetness index for soil	moisture was tried in 19	84 by	
a. Imhoff	b. Nag & Vande	c. Crist & Cicone	d. Griend
9. is a spatial feature	of raster data model		
a. polygon	b. square	c. triangle	d. rectangle
10. Visual Interpretation	for land use/land cover o	comprises of	steps.
a. 4	b. 5	c. 6	d. 7

(P.T.O.)



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.2	Answer the following in brief (any ten)	20
	xplain the term Oceanography.	
2. D	raw the schematic bar diagram of distribution of world water bodies	
	rite in brief about continental margin	
	xplain Hydrology.	
5. H	ow infiltration works in hydrology?	
	hat is hydraulic conductivity?	-
7. H	ow data acquisition helps in remote sensing?	
8. W	rite a short note on principle of Remote Sensing.	
9. D	efine the term remote sensing	
10. I	Discuss in brief application of remote sensing in agriculture	
11.	Write a note on uses of GIS in remote sensing	
12. P	repare a flow chart for methodology for soil mapping using Remote Sensing	ŗ,
Q3.	Discuss temperature and salinity of ocean water.	10
	OR	
Q3.	a. Write a note on tidal origin with its types	5
	b. Give a brief account on continental shelf	5
Q4.	a. Discuss runoff and groundwater as an element of hydrology	5
	b. Explain the world hydrological cycle.	5
	OR	
Q4.	a. Give a note on Darcy's law	5
	b. Write a note precipitation in hydrology	5
Q5.	a. Write a note on Indian Imaging system.	5
	b. Give a note on atmospheric window.	5
	OR	-
Q5.	a. Explain about sensors and satellites.	5
	b. Discuss spectral signature with suitable diagram.	5
	<u> </u>	<u>-</u> -
Q6.	a. Explain the components and data models of GIS briefly.	5
	b. How remote sensing helps in hydrology?	5
	OR	-
	iscuss Digital image processing used in land use/land cover.	