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SARDAR PATEL UNIVERSITY T. Y. B.Sc. (5th SEMESTER) 2020 SATURDAY, 26th DELEMBER 2020 02:00 pm to 04:00 pm US05CENV22- GEOLOGICAL SCIENCE AND OCEANOGRAPHY

TOTAL MARKS:

Q.1. Select the cor	(10)							
(a) Changes in tension	en high and low elevation is room (b) Changes (d) None of	in relief						
2 property i	s likely to be most useful in it (b) Lusture llowing mineral is hardest acc	dentifying a mii (c) Hardness		(d) Chemical of	composition			
	(b) Calcite			(d) Gypsum				
4 instrume	ent is used to measure the inte	nsity of earthqu	ıake.					
(a) Reflectometer	(b) Seismometer	(c) Nephelor	neter	(d) Diatometer	r			
	as in Australia.							
(a) Hurricane		(c) Taifu	(d)Wi	lly willy	,			
	in (b) Speed of water flow water has in total global water			(d) All above				
(a) 5.5		(c) 2.5		(d) 3.5				
8 is zone of oce	ean floor that separates thin o	ceanic crust from	n thick o	continental crust				
(a)Continental shelf	(b) Continental margin	(c) Trench		(d)Guyot				
9.Typical seawater fi	reezes at around °Cat at		sure	-	4 2			
	a)-1.9 (b) -2.9 (c) -3.9 (d) -4							
	as oxygen levels below 2 mg				•			
(a)Medoxia	(a)Medoxia (b)Hyperoxia (c)Hypoxenia (d) Hypoxia							
Q.2. Answer the fo	llowing True or False				(08)			
1. In order to identif 2. All minerals have	y a mineral, it is necessary to same streak color.	determine its cl	hemical	composition.				
	of equal pressure zone.		-					
4. A very viscous magma tends to be less explosive.								
5.Semi-diurnal tidesare the most common tidal pattern								
6.There are four ma	in types of corals			-				
7. Energy requires to change temperature of seawater by a fixed amount is called as heat capacity								
8. Density of warme	er waters increases as much as	s the density of	colder w	raters				

Q.3 Answer the following in brief (Any Ten)

(20)

- 1. Define Geomorphology.
- 2. Write a short note on hardness of minerals.
- 3. What are drainage patterns? Enlist different types of drainage patterns.
- 4. Write in short about various volcanic materials.
- 5. What are different types of Flood? Explain.
- 6. Write a short note on effects of drought.
- 7. What is continental shelf?
- 8. Write in brief about Coral reefs.
- 9. Explain types of tides based on the sun, the moon, and the earth's positions.
- 10. Write in brief about surface tension of seawater.
- 11. What is Insolation?
- 12. Give a short note on the energy balance.

Q.4 Answer the following in detail (Any four)

(32)

- 1. Write a detailed note on endogenic geomorphic process.
- 2. Explain Calcium cycle in details with suitable diagram.
- 3. Explain in detail about causes of earthquake.
- 4. Give a detailed note on anatomy of cyclone.
- 5. Discuss in detail about distribution of world land and water bodies with appropriate diagram.
- 6. Write a detail note on types of Estuaries.
- 7. Give detail account on temperature as a physical property of seawater.
- 8. Explain detail aboutSOFAR channel.

