P. P. SAVANI UNIVERSITY

SecondSemester of B.Sc. Examination Dec.-Jan.-2021

SSES1110-Physical Environment

27.12.2021, Monday

C Western

1. The question paper comprises of two sections.

Instructions:

Time: 09:00 a.m. to 11:30p.m.

Maximum Marks: 60

	ection I and II must be attempted in separate answer sheets.				
	ake suitable assumptions and draw neat figures wherever required.				
4. Us	se of scientific calculator is allowed.				
	Section-I (Total Marks - 30)				
Q.1	Short Questions	[10]			
1.1	Objectives				
1.1a	Which of the following is an example of NOT Biological Environment?				
	A Water -				
	B Flora				
	C Fauna				
	D Human				
1.1b	The circle that divides the day from night is known as				
	A Circle of hallucination				
	B Circle of Extraction				
	C Circle of illumination				
	D Circle of intensity				
1.1c	Which of the following is an NOT Jovian Planets?				
	A Mars				
	B Jupiter				
	C Neptune				
	D Uranus				
1.1d	As per Kepler's first law, the path of any object in an orbit follows the shape of				
	with the orbited body at one of the foci.				
	A Circle				
	B Ellipse				
	C Square				
1.1e	D Rectangle				
1.16	In Newton's law of Gravitation, what is the value of G? A 6.67 * 10-11				
	B 6.67 * 10-12				
	C 6.67 * 10-13				
	D 6.67 * 10-14				
1.1f					
1111	Due to Coriolis effect on Earth, the object tends to deflect moving object to left in hemisphere				
	A Northern				
	B Southern				

	D Eastern	
1.1g		
1.18	A Iron and Nickel	
	B Copper and Nickel	
	C Iron and Copper	
	D Iron and Zinc	
1.1h	Full form of mT will be in terms of Air masses	
	A Maritime Tendrils Air masses	
	B Maritime Tropical Air masses	
	C Marine Tendrils Air masses	
	D Marine Tropical Air masses	
1.1i	cloud is like thin white sheet gives sun and moon their haloes.	
	A Cirrus	
	B cirrocumulus	
	C Cumulus	1
	D Cirrostratus	
1.1j	layer has ozonosphere.	
	A Troposphere	
	B Stratosphere	
	C Exosphere	
	D Ionosphere	
1.2	Answer the Following	[05]
1.2a	The amount of darbon dioxide by volume in almosphere is 26 %. True/Faise	
1.2b	gas is present in the largest amount in the atmosphere.	
1.2c	Mercury is a terrestrial planet. True/False	
1.2d	and revolution of a planet.	
1.2e	Air is an example of biotic environment. True/False	
Q.2	Short Notes (Attempt any two)	[06]
A	Write a note on Tangent Galvanometer.	[06]
В	Explain Newton's Law of Gravitation.	
C	Write a note on classification of Environment.	
0.0	Square 2	
Q.3	Explain in detail (Attempt any two)	[14]
A	Write a note on types of clouds with a neat sketch.	
В	Explain Kepler's law.	
C	Explain Solar energy Budget.	

	Section-II (Total Marks - 30)		
Q.1	Short Questions	[10]	
1.1	Objectives		
1.1a	% of total outgoing heat radiation by earth system in Solar Energy		
	budget		
	A 51		
	B 61		
	C 71		
	D 81		
1.1b	On date the earth is nearest to sun.		
	A 3rd January		
	B 13th January		
	C 3rd July		
	D 4th July	,	
1.1c	Air moves from pressure region to pressure region.	1 .	
	A High, High		
	B Low, Low		
	C High, Low		
	D Low, High		
1.1d	As we move upwards, the amount of air		
	A Increases		
	B Decreases		
	C Remains constant		
	D None		
1.1e	Forms of Precipitation are of types.		
	A 1		
	B 2		
	C 3		
	D 4		
1.1f	Ecosystem do not have trees or shrubs.		
	A Estuary		
	B Swamps		
	C Salt Marshes		
	D Mangrove		
1.1g			
8	A 24		
	B 18		
	C 10		
	D 4		
1.1h			
1.11	A Estuary		
	B Swamps		
	C Salt Marshes		
	U Jait Mai Siles		

D Mangrove

1.1i		Zone is very nutrient rich.				
	A	Intertidal				
1	В	Pelagic				
	C	Benthic				
	D	Abyssal				
1.1j	Sal	inity at the ocean is ppt				
	A	0-5				
	В	5-25				
	C	>25				
	D	None of the above				
1.2	An	swer the Following	[05]			
1.2a	Full form of cP.					
1.2b						
1.2c		lagic zone is the bottom zone of the ocean. True/False	1			
1.2d		esh water covers 98% of the earth's coverage. True/False				
1.2e	Th	ermosphere is further divided into which layers.				
		A TRANSPORT OF THE PARTY OF THE	F0.61			
Q.2		ort Notes (Attempt any two)	[06]			
A		rite a note on Intertidal Zone.				
В	M	ention the ecological and economical services provided by Coral Reef				
	Ec	osystem.				
C	W	rite a note on Estuary.				
		The Parish of Current desired a voter and a few should be the state of	F4.47			
Q.3		xplain in detail (Attempt any two)	[14]			
A		rite a note on Forms of Precipitation.				
В	10.0	rite a note on Air masses				
C	W	rite a note on Abyssal zone with characteristics of their animals.				