## MA GEOGRAPHY First Semester Climatology and Oceanography (MGE - 02)

Puration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20 Part-B (Descriptive)=50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer any five from the following

 $2 \times 5 = 10$ 

- a) Write two factors affecting distribution of Insolation.
- b) Write two characteristics and example of High clouds.
- c) What are the characteristics of Convectional rainfall?
- d) What is difference between La-Nina and El-Nino?
- e) What are the Sources and types of Marine deposits?
- f) What is Anticyclones? Write one characteristic of Anticyclone.
- 9) Define: Spring tide and Neep tide.

## 2. Write short notes on any five from the following:

 $3 \times 5 = 15$ 

- a) Structure of the Atmosphere.
- b) Heat budget of the Earth.
- c) Characteristics of Jet Stream.
- d) Influence of Air masses on Weather.
- e) Weather Conditions associated with a Warm front.
- f) Difference between Koppen and Thronwaite classification of climate.
- g) Causes and Consequences of Global Warming.

## 3. Answer any five from the following:

 $5 \times 5 = 25$ 

- a) What is Inversion of temperature? What are the conditions necessary for Temperature inversion? Explain types and significance of temperature Inversion.
- b) Discuss about the life in the rainy tropics. Give example.
- c) Discuss briefly about horizontal distribution of air pressure and pressure belts with the help of diagram.
- *d)* Describe about the origin and development of Monsoon. How monsoon impacts on world climate.
- e) Discuss briefly about the origin of Ocean basin. Give diagram in support.
- f) What are coral reefs? Explain their types and conditions necessary for the growth of Coral reefs.
- g) Discuss about the effects of Tides and Ocean currents. Give suitable example.

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(The figures in the m	nargin indicate full marks fo	or the questions,
Duration: 20 minutes		Marks – 20
PA	ART A- Objective Type	
I. Choose the correct op	tions from following:	1 ×20=20
1. In which of the follo pheonomena occurs?	wing layers of atmosphere	all weather
a) Troposphere	b) Stratosphere	
c) Mesosphere	d) Thermosphere	
2. The atmospheric ten	nperature decreases only up	to-
a) Mesosphere	b) Thermosphere	
c) Stratosphere	d) Troposphere	
<b>3.</b> When the sun is vert of Capricorn this situ	ically above the tropic of c ation is called-	ancer and tropic
a) Equinox	b) Solstice	
c) Season	d) Spring	
	een all incoming solar energy by both short wave a	
a) Energy deficit	b) Net radiation	
c) Energy surplus	d) None of these	

5. Meridional is-					
a) The pole ward flow of heat		b) The equator ward flow of heat			
c) Heat caused by solar rays		d) None of	d) None of these		
6. Which of the following belt	is called 'horse lat	itude'?			
a) Equatorial low pressure belt		b) Sub trop	b) Sub tropical high pressure belt		
c) Sub polar low pressure belt		d) None of these			
7. Which of the following is no	ot the part of tricell	ular meridona	l circulation of the atr	nosphere?	
a) Tropical Hadley cell b) Mid- Atlan		antic Cell	c) Polar cell	d) None of these	
The concept of Jet stream is	related with -				
a) Tropical Easterly Jet Stream		b) Tropical Westerly Jet Stream			
c) Upper air circulation		d) Lower a	d) Lower air circulation		
9. The process associated with	the creation of nev	w fronts is call	ed-		
a) Front genesis	b) Frontolys	sis	c) Cold front	d) Warm front	
10. Willy-willy blows in-					
a) Japan	b) Australia	Top ()	c) USA	d) China	
11. In the temperate cyclones t	he winds blow-				
a) From the periphery towards the center		b) From th	b) From the center towards the periphery		
c) From the both side		d) None of these			
12. Cs stands for-					
a) Mediterranean type of climate		b) West European type of climate			
c) Monsoon type of climate		d) None of these			
13. Thornthwaite new schemes	s is based on-				
a) Vegetation zone		b) Potentia	b) Potential evapotranspiration		
c) Humidity indices		d) None of	d) None of these.		

<b>14.</b> Cryphytes vegetation is	is found in-				
a) Taiga region	a) Taiga region		b) Steppe region		
c) Tundra region		d) Mediterranean region			
<b>15.</b> Why the salinity is for evaporation?	and high in the tropics the	han the Equator while	both the areas record high rate of		
a) Dry air is found over the Tropics		b) Wet air is found in the tropics			
c) Salinity increases towards poles		d) None of these			
16. Which of the following	g factors affect the distr	ibution of temperature	of the ocean water?		
1. Latitudes 2. Unequa	al distribution of land ar	nd water			
3. Prevailing winds 4.	Oceanic currents				
Select correct answer	from the code given bel	ow-			
Codes:					
a) 1, 2 and 3	b) 2and 3 only	c) 1 and 4 only	d) All the above		
17. A ring of narrow grow	ring corals of horse shoe	e shape and crowned w	vith palm trees are called-		
a) Fringing reef	b) Barrier reef	c) Atoll	d) None of these.		
18. Which of the following	g current affect the sum	mer monsoon-?			
a) Peru current	b) Kurile current	c) Brazil current	d) El-Nino current		
19. Isohalines are –					
a) The lines that join th	he places of equal rainfa	all			
b) The lines that join the	he places of equal salin	ity			
c) The lines that join the	ne places of equal temp	erature			
d) None of these		apara Marie			
20. The sediments of conti	inental origin are called				
a) Terrigeneous	b) Volcanic	c) Marine plants	d) None of these		