

MA GEOGRAPHY First Semester CLIMATOLOGY & OCEANOGRAPHY (MGE - 102)

Duration: 3Hrs.

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

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Full Marks: 70

Answer any four from Question no. 2 to 8 Question no. 1 is compulsory.

1. Define climatology. Explain its scope in terms of applied climatology. (3+7=10)

- Distinguish between airmass and front. Provide classification of any one of them with suitable diagrams. (4+6=10)
- 3. What are the basis of climatic classification? Explain. Put forward Koeppen's climatic classification. (4+6=10)

4. What is the basic composition of atmospheric gases? Incoming solar radiationoutgoing solar radiation=0, explain. (5+5=10)

- Put forward justified explanations about characteristics of ocean waters. Brief about oceans of the world. (5+5=10)
- 6. Define ocean dynamics. Brief about oceanic ice. (7+3=10)
- 7. Explain applied oceanography in terms of world economy. How remote sensing is related to oceanographic studies? (6+4=10)
- 8. Write short notes on *any two*: (5+5=10)
 - a. Permafrost b. Coral reefs.

c. Micro climates d. El Nino & La Nina and climatic change.

2016/12



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Duration: 20 minutes

(PART A - Objective Type)

I. Choose the correct answer:

1.	The difference bet short wave and los a) Energy deficit c) Energy surplus	tween all ng wave r	incoming sol adiation is ca b) Net radia d) None of t	ar energy and all outgoing terrestrial energy by both lled: ion nese					
2.	The process associated with the creation a) Front genesis b) Frontolys c) Cold front d) Warm fro			of new fronts is called: is ont					
3.	Atmosphere exter a) 6000km	nds outwa b) 480	rd at least: 0km	c) 8000km	d) 13,000km				
4.	Argon makes up . a) 78.084	% in tl b) 0.0	he atmospher 0182	re. c) 0.934	d) 20.946				
5.	The average salin a) 30 parts per the c) 75 parts per the	ity of sea ousand ousand	water is abo b) 35 parts d) None of	ut: per thousand the above					
6.	<i>Forminifera</i> is a: a) Coral polyps c) Fish		b) Microsco d) Flora	opic creature					
7.	 7. The term 'albedo' implies: a) Capacity to absorb heat. b) Capacity to modify the path of solar beam. c) Proportion of light reflected by surface. d) Amount of heat transferred to air by the surface. 								
8.	On an ideal earth a) 5 b)	model the 6	e total numbe c) 7	er of pressure l d) 8	belts is:				
9.	The coriollis effect is the result of: a) Earth's rotation c) Earth's rotation and revolution			b) Earth's revolutiond) Pressure gradient					
10).1 Nautical Mile = a) 1.852 km	[₌] ? b)1.5	82km	c)1.258km	d)1.800km				

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Marks-20

1×20=20

	11.Atmospheric pressure genea) Earth's rotationc) Gravitational force	rated on the earth's surface is due to: b) Earth's revolution d) None of these					
12.Blizzards are characteristic a)Equatorial region c)Antarctic region		b feature of : b) Tropical region d) Temperate region					
	13.In Yogoslavia Mediterranea) Mistralc) Pampero	an wind is ca b) Bora d) Gibli	lled:				
	14. Java has a world record of an average ofdays thunderstorms per year.a) 300 daysb) 322 daysc) 365 daysd) 330 days						
	15.Doldrums in equatorial clira) Disturbed areasc) Rainfall zones	Doldrums in equatorial climate is a:a) Disturbed areasb) Calm areasb) Rainfall zonesd) Cyclone zones					
	16.Wind rose represents:a) Wind datac) Wind pressure	b) Wind turbulance d) Wind temperature					
17. Which of the following winds is called anti-trade wind?a) Chinookb) Cyclonec) Typhoond) Westerlies							
18.Trade winds are due to:a) Conductionc) Radiation		b) Convection d) Scattering					
	19.A wall of sea water in Bay of Fundy is called:a) Neap tideb) Tidal borec) Spring tided) Frontal rainfall						
	20. What is the cause behind final and the cause behind final and the control of the con	rontal rain? oolar air	b) Cold air from s d) None of these	ea			
