REV-01 MGE/05/10

## MA / M.Sc. GEOGRAPHY FIRST SEMESTER ADVANCED GEOMORPHOLOGY

MGE – 101 [REPEAT] [USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

2023/01

SET

Objective ]

Time: 30 min.

Choose the correct answer from the following:

1X20=20

Marks: 20

1. Who postulated the concept of 'Uniformitarianism'?

a. Leonardo da Vinci

b. James Hutton

c. W.M Davis

d. A.K Lobeck

2. 'Landscape is a function of structure, process and time' is a statement related with

a. Concept of Equilibrium

b. Landscape cycle

c. Geographical Cycle

d. Morphological system

3. 'Concept of Equilibrium' is one of the major components related with Geomorphic theory of

a. G.K Gilbert

b. W.M Davis

c. James Hutton

d. W. Penck

4. The 'cyclic model of pediplanation' was propounded by

a. W.M Davis

b. L.C King

c. W.Penck

d. James Hutton

5. Which of the following is unrelated to the denudation action of Mass Movement?

a. Basal sapping

b. Exfoliation

c. Landslide

d. Mud flow

6. Which one of the following features is formed when the roof of a limestone cavern collapses?

a. Tarn

b. Polje

c. Swallow hole

d. Doline

7. Caverns are the landform of

a. Running water

b. Karst

c. Wind

d. Glacier

8. Erosion of loose rock particles by wind is known as:

a. Abrasion

b. Attrition

c. Corrosion

d. Deflation

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[1]

9.	The plates and the upper part of the ma  a. atmosphere c. exosphere	ntle combine to form a layer known as:  b. troposphere  d. lithosphere
10.	The process of collision of two plates with a. Abduction c. Prediction	th different densities is known as  b. Subduction  d. Production
10.	A river flowing over alternating hard ar a. Incised meanders c. Rapids and cataracts	nd soft rocks results into:  b. Meanders and Ox-bow lakes d. Waterfall and nick-point
12.	The transporting power of a river deperation.  The volume and velocity of its water  c. The transportability of its load	b. The river gradient d. All of them
13.		b. 3,4,2,1 d. 3,4,1,2
14.	The slope replacement model was propor a. Penck c. Davis	
15.	Stability of hill slopes depend upon a. Nature of the slope c. Geological conditions	b. Angle of the slope d. All of the above
16.	Slope length is most closely related to: a. Stream width c. Tectonic uplift	<ul><li>b. Drainage area</li><li>d. Drainage density</li></ul>
17.	Which one of the following is most associa. Episodic erosional activity c. Mass movements	b. Creep, rain splash and gelifluction d. Rill wash and fluvial processes
18.	In terms of slope profiles, a free face doe characteristics?  a. Exists below upper concavity  c. Bedrock Slope up to 70°	b. Consists of scree or talus d. Stepped if there are rock layers of differen resistance.

19.	geomorphology?	vny re	emote sensing is ideal for use in
	a. It will always be more reliable than field work studies	b.	It can be applied at any scale
	It minimizes the need for c. fieldwork in dangerous, isolated and sensitive areas.	d.	It can monitor changes over time
20.	Geomorphological analysis of surface interpretation from space images.	forms	of the earth is a form of
	a. Direct	b.	Indirect
	c. Synthesis	d.	Visible

## $\left( \underline{\text{Descriptive}} \right)$

Time: 2 hrs. 30 mins. Marks: 50

## [ Answer question no.1 & any four (4) from the rest ]

1.	Discuss the meaning and scope of Geomorphology. Give an account of the recent trends in Geomorphology.	5+5=10
2.	Discuss the concept of Landform evolution theory proposed by W.M Davis. Write the difference between the theory proposed by L.C King and W. Penck.	6+4=10
3.	Define Plate Tectonics? Discuss the kinds of Plate Margins and their Characteristic Features? Give support of suitable diagrams.	3+7=10
4.	Explain the fluvial process in a river profile. Give support of suitable diagrams.	10
5.	Compare and contrast the role of surface and subsurface processes in Hillslope development.	5+5=10
6.	What is slope profile? Explain the theory of parallel retreat of slopes	3+7=10
7.	Define applied geomorphology. Discuss the application ofgeomorphology in various fields with examples.	2+8=10
8.	Short Notes:	5+5=10

b. Periglacial process