

## Integ. M.Sc in App Geo Sem.-5 Examination

AGL 304

Geomorphology

Time : 2-30 Hours]

November-2024

[Max. Marks : 70

Q-I	<b>A</b> write a detailed note on how tectonism has shaped our planet (figures must)	7
	<b>B</b> with all important labeling, provide the figures on 1) interior structure of the earth 2) ocean floor morphology with its structure and composition and 3) geological time scale	7

or

Q-I	<b>A</b> when and how did tectonism begin on earth and what are its major consequences (figures must) – a detailed note	7
	<b>B</b> define topography, geoid, contour lines, canyons, index contours, equipotential surface, geodesy, hypsometric curve, ridge and state all the orders of crustal relief with examples on each	7

Q-II	<b>A</b> what are glaciers, explain the process of glacier formation with fig and explain all the types of moraines and its formation with fig	7
	<b>B</b> with special emphasis on any three major Indian rivers write a comparative note on the fluvio-geomorphological aspects	7

or

Q-II	<b>A</b> write a detailed note on the aeolian processes and its impact on environment (e.g. impact on air quality, atmospheric radiation effects, on dunes, weathering etc)	7
	<b>B</b> write notes on 1) coastal erosion processes 2) types of coastlines (fig must)	7

Q-III	<b>A</b> define endogenetic and exogenetic processes and explain in detail how does these forces affect the earth	7
	<b>B</b> write a detailed note on the relation between sea level change and global warming	7

or

Q-III	<b>A</b> what is denudation and explain in detail all the factors affecting and influencing the process of denudation	7
	<b>B</b> write a note on - tectonic controls and drainage patterns (figures must)	7

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Q IV	A define wetlands, and explain the possible impacts of climate change on wetlands	7
	B write a note describing any 3 morphological features of mars and moon	7

or

Q-IV	A write a note on the landforms of India	7
	B write a note on - the importance of understanding extraterrestrial geology and morphology	7

QV	MCQs attempt any seven out of twelve	14
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- 1) Define creep
- 2) An outwash plain, is also called a \_\_\_\_\_
  - a) Backwash
  - b) sludge
  - c) Sandur
  - d) Tidal inlets
- 3) Define undercutting wrt geology
- 4) Name and provide fig of any 5 drainage types
- 5) "Spalling" refers to \_\_\_\_\_
  - a) Accumulation of fragments
  - b) Breaking up into fragments
  - c) Cementation of fragments
  - d) Dissolution of fragments
- 6) All 3 plate movements (Fig only, with labelling)
- 7) State the types of mechanical behavior of glacial ice
- 8) Show the movement of glacial ice with fig only
- 9) What is a breaker zone
- 10) Define cryovolcanism
- 11) Can plate tectonics affect climate change?  
True or false, if true state at least one point  
If false, why
- 12) Define lateral faulting