

IM.Sc. App. Geo Sem.-6 Examination

AGL-311

Mining & Env. Geology

April-2025

Time : 2-30 Hours]

[Max. Marks : 70

Q-I	A write a complete note on the effects of urbanization and mining on the ecosystem balance	7
	B write a note on the earth's radiation budget and its effect on the global climate change	7

or

Q-I	A write a detailed note on all the factors affecting the earth's heat budget	7
	B write a note on the mitigation measures that can be taken to reduce the impacts of climate change	7

Q-II	A write a detailed note on the natural and anthropogenic factors that results in the cooling of the earth	7
	B write a detailed note on the basic concept of biogeochemical cycles and provide the diagram for any two cycles	7

or

Q-II	A with at least two examples write in detail on how climate change is disproportionately affecting the different regions of the world	7
	B write a detailed note with at least two examples on the positive and negative feedback mechanisms	7

Q-III	A write a note on the marginal marine environments and explain any two in detail with figures	7
	B write a detailed note on land degradation, desertification and droughts – its interrelationship and how does it impact the ecosystem. State any 5 ways to combat it	7

Or

Q-III	A write a note on the tsunami generation process (fig must)	7
	B write a note on the physiographic and sediment characteristics of deltas (fig must)	7

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Q IV	Awrite a note onthe fluvial dominated delta processes (fig must)	7
	Bwrite a complete note on corals and coral bleaching process and its impact on ecosystem	7

or

Q-IV	Awrite in detail on thecoastal erosion and depositional processes (fig must)	7
	Bwrite a detailed note on the internal structure of the earth and how it influences the plate movement(fig must wherever needed)	7

Q-V	MCQs attempt any seven out of twelve	14
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- 1) Define and state the fig for translational landslide movement
- 2) which gas is released from supersonic jets causing ozone depletion
 - a) methane
 - b) sulphur dioxide
 - c) carbon monoxide
 - d) nitric oxide
- 3) define corals and name any two types
- 4) state the full form of NOAA
- 5) state the full form of AVHRR
- 6) What converts nitrogen into the oxides of nitrogen
 - a) River acidification
 - b) Rain
 - c) Lightning
 - d) Acid rain
- 7) Is ozone cycle a biogeochemical cycle – true or false
- 8) which planets do not have ozone layer?
- 9) Define and state the fig for rock toppling
- 10) In what unit is ozone measured?
- 11) what are CFC's
- 12) define osmoregulation