

Time : Three Hours]

[Maximum Marks : 300

INSTRUCTIONS

- (i) Answers must be written in English.
- (ii) The number of marks carried by each question is indicated at the end of the question.
- (iii) The answer to each question or part thereof should begin on a fresh page.
- (iv) Your answer should be precise and coherent.
- (v) The part/parts of the same question must be answered together and should not be interposed between answers to other questions.
- (vi) Candidates should attempt question no. 1 which is compulsory and five more questions selecting one question from each Section.
- (vii) If you encounter any typographical error, please read it as it appears in the text-book.
- (viii) Candidates are in their own interest advised to go through the General Instructions on the back side of the title page of the Answer Script for strict adherence.
- (ix) No continuation sheets shall be provided to any candidate under any circumstances.

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	 (x) Candidates shall put a cross (x) on blank pages of Answer Script. (xi) No blank page be left in between answer to various questions. (xii) No programmable Calculator is allowed. 		6.	Discuss the impact of tectonic process on the topography of drainage basins.	
				OR	
				What information pertaining to lithology and structure deciphered from the study of drainage patterns ?	can be 45
	(xiii) No stencil (with different markings) is allowed.			SECTION-C	
1.	Write short notes on the following :		7.	Explain the mechanics of Folding and Faulting.	45
	(a) Deep sea trenches and island arcs		8.	Describe the mechanism of formation of planar and linear f	eatures
	(b) Topography and its relationship with lithology			in rocks.	
	(c) Stress and strain ellipsoid			OR	
	(d) Modes of preservation of fossils			Give an outline of the tectonic framework of the Indian subco	
	(e) The Vindhyan Supergroup	5×15=75		SECTION-D	45
	SECTION-A		9.	Describe the morphology and basis of classification of gast	opods.
2.	Explain the relationship between the volcanic rock and orogenic belt				45
	of the earth.	45	10.	Write an essay on life through geological time.	
3.	Write notes on :		OR		
	(a) Origin of the Earth			Write short notes on :	
	(b) Internal structure of the Earth.	45		(a) Morphological characteristics of vertebrates(b) Gondwana flora and its significance.	45
4.	Briefly describe the following : (a) Mid-oceanic ridges			(b) Gondwana flora and its significance. SECTION–E	43
			11.		osits of
	(b) Sea-floor spreading			the Aravalli supergroup.	45
	(c) Plate tectonics	45	12.	Write notes on any two of the following :	
	SECTION-B			(a) Stratigraphic nomenclature	
5.	Give an account of the various factors that influence the development			(b) Boundary problems in stratigraphy	
	of major landforms.	45		(c) Igneous activity in the India subcontinent.	45
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