जारतीय वन सेवा परीक्षा 2011 Indian Forest Services Examination 3451Serial No. **D-VSF-L-TYA GEOLOGY** Paper-I Time Allowed : Three Hours Maximum Marks : 200 **INSTRUCTIONS** Candidates should attempt questions 1 and 5 which are compulsory, and any THREE of the remaining questions selecting at least ONE

question from each Section.

All questions carry equal marks. Marks allotted to parts of a question are indicated against each.

Answers must be written in ENGLISH only. Suitable sketches may be drawn, wherever required.

SECTION-A

 Write critical notes, within 150 words each, on any FOUR of the following :-- 10×4=40
(a) Mid-oceanic Ridge

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(b) Transform Fault

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	(c) Digital Image Processing	· · ·			
	(d) Mountain Building Processes				
	(e) Weathering and Mass Wasting.				
2.	(a) Write notes on Island Arcs.	20			
	(b) What are hot spots ? Discuss cause	s and products			
	of volcanoes.	20			
3.	Write notes on :	10×4=40			
	(a) Loess	. a			
_	(b) Morains				
•	(c) Electromagnetic Spectrum	-			
-	(d) Ox-bow Lake.				
4.	What are different types of unconformities ? Why are				
	they significant in the study of geolog	ical history of			
	an area ?	20+20			
•	SECTION—B				
5.	Write notes, within 150 words each, on any FOUR of				
	the following :	10×4=40			
	(a) Principles of Stratigraphy	•			
_	(b) Hard part morphology of a typical	gastropod			

(c) Megafossils and Microfossils

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(d) Pleistocene glaciation

(e) Groundwater management.

(Contd.)

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•	6.	Dis	cuss the following :	20×2=40	
		(a)	Goniatitic suture pattern		
	• .	(b)	Role of Foraminifers in Biostra Correlation.	tigraphic	-
	7,	Dis	cuss the following :	· · ·	
		(a)	Cuddapah Supergroup of type area.	20	
	-	(b)	Discuss criteria for the correlation of rocks of India.	Archaean 20	
• •	8.	Wri	te notes on :	• •	. ,
. .		(a)	Geological investigations required for sea a dam site.	election of 20	-
	· · ·	(b)	Porosity and permeability of rocks significance.		
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