No. of Printed Pages : 1

21APG3C10L

Sl. No.

M.Sc. III Semester Degree Examination, April/May - 2024 APPLIED GEOLOGY

Hydrogeology

(NEP)

Time : 3 Hours Maximum Marks :			: 70	
Note :		Answer any five of the following Questions with question No.1 (Q1) Compulsory, each question carries equal marks.		
1.	Ans (a) (b)	wer the following questions : Define aquifer. Describe the water bearing properties of rocks. Discuss the scope of hydrogeological cycle.	14	
2.	Ans (a) (b)	wer the following questions : Give a detailed account on groundwater resource evaluation. Define Darcy's law and validate with experimental methods.	14	
3.	Ans (a) (b)	wer the following questions : Discuss the process of unsteady radial flow in unconfined aquifers. Explain the well loss and preventive measures.	14	
4.	Ans (a) (b)	wer the following questions : Discuss the specific yields in groundwater development. Describe the land subsidence with preventive measures.	14	
5.	Ans (a) (b)	wer the following questions : Explain the geochemical evolution of groundwater. Discuss the seawater intrusion.	14	
б.	Ans (a) (b)	wer the following questions : Discuss the origin and occurrences of geological formations of groundwater. Explain the hydraulic conductivity by using tracer techniques.	14	
7.	Ans (a) (b)	wer the following questions : Discuss the impact boundaries in aquifers. Explain the construction of shallow wells and deep wells.	14	
8.	Wri (a) (b) (c)	te a short note on : Aquifer compressibility Types of aquifers Advantages of groundwater	14	

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