

Model Question Paper SET1
Paper : MJ 14 (HYDROLOGY)
Subject : Geology

Full Marks: 75

Time: 3 hours

Group A

(Short answer-type compulsory questions)

Q1. Fill in the blanks: [5x1=5]

- a) CGWB stands for _____
- b) The branch of geology dealing with the occurrence, movement and distribution of groundwater is called _____
- c) A geological formation that can store and transmit significant quantities of groundwater is called an _____.
- d) A narrow, deep well constructed using a pipe is commonly called a _____ well
- e) Transmissivity is commonly expressed in units of _____ per day.

Q2. Explain the hydrologic cycle in detail with a neat labelled diagram. [5]

Q3. Describe the different types of groundwater and discuss their origin. [5]

Group B [4 X 15]

Answer any four

(Subjective/ Descriptive questions)

Q4. Explain the different types of aquifers with suitable diagrams

Q5. Explain the concept of cone of depression and radius of influence around a pumping well.

Q6. Discuss surface and subsurface methods of groundwater exploration in detail.

Q7. Discuss groundwater pollution, its sources, types, effects, and control measures.

Q8. Describe various artificial groundwater recharge techniques with suitable diagrams

Q9. Explain porosity, permeability, specific yield, and specific retention.

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