

Enrollment No.

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B.TECH (CE)
IV YEAR, VII SEMESTER EXAMINATION
GROUND WATER

[Time : 03:00 Hours]

[Max. Marks : 70]

NOTE:- ATTEMPT ALL THE QUESTIONS AS PER GIVEN INSTRUCTIONS.**QUESTION NO.-1: ATTEMPT ANY FOUR PARTS.**

(4*3=12)

a)	What is the scope of Ground water in Civil Engineering?
b)	What is well hydraulics?
c)	Draw & explain Hydrological cycle with neat sketch.
d)	Define the terms: (1) Aquifer (2) Aquiclude (3) Porosity
e)	What do you mean by roof top rain water harvesting system?
f)	What is the importance of water management system?

QUESTION NO.-2: ATTEMPT ANY THREE PARTS.

(3*4=12)

a)	Write a note on Ground water Scenario in India.
b)	Discuss the difference in between confined & unconfined aquifer.
c)	Briefly discuss difference between hydrogeology and groundwater.
d)	What is the importance of Ground water?

QUESTION NO.-3: ATTEMPT ANY THREE PARTS.

(3*6=18)

a)	Discuss the design procedure of well in detail.
b)	What are the various methods of Artificial Recharge of Ground Water? Explain in detail.
c)	Discuss the various causes of contamination of ground water in detail.
d)	Difference in between hydrology and hydrogeology.

QUESTION NO.-4: ATTEMPT ANY TWO PARTS.

(2*7=14)

a)	Explain the well maintenance procedure in detail.
b)	Explain various types of Pumping Tests detail.
c)	Discuss the Groundwater Exploration Techniques in detail.

QUESTION NO.-5: ATTEMPT ANY TWO PARTS.

(2*7=14)

a)	Discuss the various types of drainage system in detail.
b)	Explain Dupuits theory in detail.
c)	Drive & explain equation of Darcy's Law in detail.

Printing Pages : 1

Paper Code : - BCE-004

(A) (SVSU) : 2024-2025/R

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B.TECH (CE)
IV YEAR, VII SEMESTER EXAMINATION
CYBER LAW AND ETHICS

[Time : 03:00 Hours]

[Max. Marks : 70]

NOTE:- ATTEMPT ALL THE QUESTIONS AS PER GIVEN INSTRUCTIONS.

QUESTION NO.-1: ATTEMPT ANY FOUR PARTS.

(4*3=12)

- Define the term Cyber Law. Give the importance of cyber laws?
- Explain Minimum Contacts theory.
- State and explain Sliding Scale theory.
- State Jurisdiction aspects in cyber law. Differentiate between subject matter and pecuniary jurisdiction.
- What is Digital Signature? How digital signature work?

QUESTION NO.-2: ATTEMPT ANY THREE PARTS.

(3*4=12)

- Explain different category of Cyber Crime.
- Discuss about the IT Act 2000, and its salient features with the context of individual being booked under this act.
- Write a note on Identity theft and Cyber terrorism.
- Explain the concept of Public and Private Key in reference to data protection.

QUESTION NO.-3: ATTEMPT ANY THREE PARTS.

(3*6=18)

- Explain the process of creation and authentication of Digital Signature with a neat diagram.
- How does Cyber Security become an integral part of person's life? Explain it with a suitable example.
- Give an overview of Computer and Web technology.
- Describe Cyber jurisprudence and Indian cyber law in detail.

QUESTION NO.-4: ATTEMPT ANY TWO PARTS.

(2*7=14)

- Give the concept of Digital Certificate. Compare and contrast digital signature and digital certificate.
- What do you mean by E-Contracting? Discuss salient features of e-contracting.
- Discuss International Law and Jurisdictional issues in cyberspace.

QUESTION NO.-5: ATTEMPT ANY TWO PARTS.

(2*7=14)

- What is Copyright? Explain the Interface with Patent and Copyright law.
- Explain about E-Governance under Indian Perspective. List out advantage and disadvantage of E-Governance?
- Write a short note on E-Commerce and its salient features.

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B.TECH (CE)
IV YEAR, VII SEMESTER EXAMINATION
CONCRETE MATERIALS

[Time : 03:00 Hours]

[Max. Marks : 70]

NOTE:- ATTEMPT ALL THE QUESTIONS AS PER GIVEN INSTRUCTIONS.

QUESTION NO.-1: ATTEMPT ANY FOUR PARTS.

(4*3=12)

a)	Discuss the Boug's compound of cement.
b)	Distinguish between weigh batching and volume batching.
c)	Write a short note on C-S-H gel.
d)	Write about the physical test conduct on cement.
e)	What is segregation and bleeding?
f)	Classify the aggregate on the basis of shape.

QUESTION NO.-2: ATTEMPT ANY THREE PARTS.

(3*4=12)

a)	What are the different tests of hardened concrete?
b)	Explain the engineering properties of aggregate.
c)	Write a short note on Light weight aggregate concrete.
d)	Explain wet process of manufacturing of cement.

QUESTION NO.-3: ATTEMPT ANY THREE PARTS.

(3*6=18)

a)	Discuss different types of cement and their uses.
b)	Explain the procedure to determine standard consistency of cement.
c)	Explain VEE BEE Consistometer test.
d)	What are the different NDT tests?

QUESTION NO.-4: ATTEMPT ANY TWO PARTS.

(2*7=14)

a)	What is the affect of water cement ratio on strength and durability of concrete.
b)	Write a short note on following term in respect of concrete: i) Carbonation attack ii) Chloride attack
c)	Write the procedure of Compacting Factor Test.

QUESTION NO.-5: ATTEMPT ANY TWO PARTS.

(2*7=14)

a)	Draw the neat labeled sketch of slump cone with all dimensions. Explain slump test in detail.
b)	What are the different types of test conducted on cement?
c)	What is the effect of particle shape and texture on the strength of the aggregate?
