Reg. No.:

Question Paper Code: 41515

B.E./B.Tech. DEGREE EXAMINATIONS, JANUARY 2022.

First Semester

Civil Engineering

CY 3151 — ENGINEERING CHEMISTRY

(Common to All Branches (Except Marine Engineering))

(Regulations 2021)

www.IndianUniversityQuestionPapers.com
Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. Why do we express hardness of water in terms of calcium carbonate equivalent?
- 2. What is brackish water?
- Define nanomaterials.
- 4. What are nanoclusters?
- 5. What is reduced phase rule?
- 6. Give two examples of hybrid composites.
- 7. What is meant by cetane number?
- 8. How do you control carbon foot print (any two)?
- State critical mass.
- 10. Write any two uses of a lithium ion battery.

PART B — $(5 \times 16 = 80 \text{ marks})$

- (a) (i) What are the water quality parameters? Explain their significance.
 (8)
 - (ii) Write a note on break point chlorination.

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Jicheng Xie

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