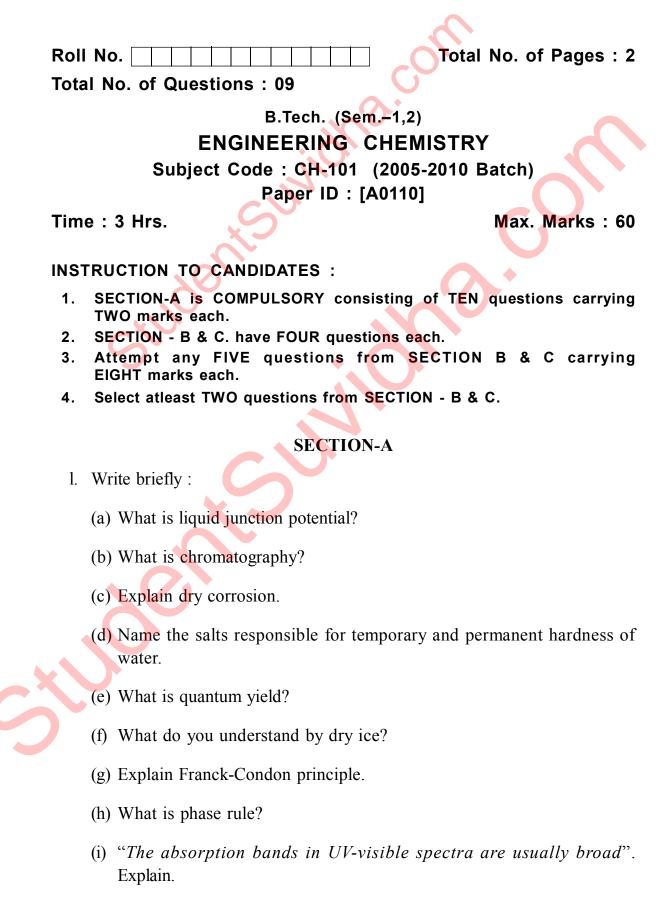
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(j) Which will occur at a higher frequency : the C-O stretch of phenol or Download and Notes tang papers from Student Suvidha.com

[N-1-786]

SECTION-B

- 2. (a) What are the requirements of drinking water for human consumption?
 - (b) Describe ion exchange method for softening of water.
- 3. (a) Describe the mechanism of electrochemical corrosion.
 - (b) Discuss differential aeration corrosion.
- 4. (a) Discuss classification of chromatography.
 - (b) Draw well labelled flow diagram of LC instrument. Discuss briefly.
- 5. (a) Explain the titration curve of strong acid with strong base by conductometry.

(b) Discuss Nernst's equation for electrode potential and emf of cell.

SECTION-C

- 6. (a) Explain the kinetics of photochemical reaction by taking a suitable example.
 - (b) Explain primary and secondary photochemical processes.
- 7. (a) Describe the principle of UV-Vis spectroscopy.
 - (b) Discuss the applications of IR spectroscopy.
- 8. (a) Explain the principle of NMR.
 - (b) What is double resonance? Explain.
- 9. Draw well labelled phase diagram of water and explain.

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