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PG (CBCS)
M.SC. Semester-IV Examination, 2021
CHEMISTRY
PAPER: CEM-404
(CHEMISTRY IN TECHNOLOGY)

Full Marks: 40

Time: 2 Hours

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- Answer any FOUR questions from the following:** **4X10=40**
1. (a) What is fluorescence microscopy?
(b) Define nucleosides and nucleotides. Give examples.
(c) What is principle of circular dichroism? 3+3+4
 2. (a) Cellulose is not a food source for human although it is made up of glucose monomers.
Comment.
(b) Give examples of acidic, basic and neutral amino acid.
(c) Write short notes on: (i) Biochemical effect of pesticides.
(ii) Pitting corrosion. 2+2+3+3
 3. (a) How do you minimize galvanic corrosion?
(b) What is the function of nucleic acid? 5+5
 4. (a) Describe the biochemical effect of arsenic.
(b) Why does cis-platin act as potent drug against various form of cancer? 5+5
 5. (a) What is epifluorescence?
(b) How does epifluorescence microscope work?
(c) Write some applications of this microscopy. 3+3+4
 6. Discuss various methods for corrosion protection. 10
 7. (a) What is the principle of colorimetry?
(b) Discuss the advantages and disadvantages of colorimeter.
(c) Discuss some applications of colorimeter. 3+3+4
 8. (a) Describe the impact of toxic chemicals on enzyme.
(b) Discuss biological function of lipids. 5+5
