



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**

**Question Paper**

**Major Examinations 2020**  
**Semester - III**  
**Subject: INDUSTRIAL CHEMISTRY**  
**Paper: SEC1T**

**Full Marks : 40**

**Time : 2 Hours**

*Candidates are required to give their answer in their own words as far as practicable.  
The figures in the margin indicate full marks.*

**CHEMICAL PROCESS ECONOMICS AND ENTREPRENEURSHIP**

Answer any *two* from the following questions : 2×20

1. (a) Compare QA and QC. 2×20  
(b) Explain the principles of quality management. 5+15
2. (a) Describe the term profitability analysis. 10+10  
(b) Explain different aspects of marketing. 10+10
3. (a) Discuss different factors associated with cost estimation of a project. 10+10  
(b) Enumerate the criteria for economic feasibility of a project. 10+10

4. (a) Explain the term 'sickness' with reference to small scale industries. What are the remedial measures to solve the problem of sickness ?

(b) Explain the term 'SWOT' with example. 10+10

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### INTELLECTUAL PROPERTY RIGHTS

Answer any *two* from the following questions : 2×20

1. Describe different steps for filling application of GI (Geographical Indication) 20

2. (a) What are the importances of intellectual property rights ?

(b) What is industrial design ? What is importance of industrial design ?

(c) What is patent ? What are different types of patents ? 5+10+5

3. Discuss different legislations covering intellectual property rights (IPR) in India. 20

4. Write short notes : 4×5

(a) Trade secret

(b) GATT

(c) WTO

(d) Trade marks

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**BASIC COMPUTER PROGRAMMING IN C  
AND ITS APPLICATIONS IN CHEMISTRY**

Answer any *two* from the following questions : 2×20

1. Draw the basic block diagram of a computer system. Enumerate different parts of a computer. 20
  
  2. (a) What are the differences between application software and system software ?  
(b) What are the applications of programming languages ? 10+10
  
  3. (a) What is the function of operating system ?  
(b) Give examples of basic operating systems.  
(c) What is conditional operator in C language system ?  
(d) What is array ? What are the characteristics of an array ? 2+3+5+10
  
  4. (a) Write short notes on 'Secondary storage devices'.  
(b) Draw a flow chart and write an algorithm to find the highest among three numbers. 5+15
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