

[A-30]

SARDAR PATEL UNIVERSITY
B.Sc. EXAMINATION
SEMESTER – VI
Industrial Chemistry
US06CICH04

SC
No. of printed pages: 02

Date: April 04, 2016 (Monday)
Time: 2:30 p.m. to 5:30 p.m.

Maximum Marks: 70

Q-1 Choose the correct option for each of the following.

[10]

- The task of arranging money for a business to achieve its objective is called management.
(a) Marketing (b) Finance (c) sales (d) All of above
- The period during which use of a property is economically feasible is known as.....
(a) Property life (b) Service life (c) Both (d) none
- Type of capital used in an organization is divided as.....
(a) Fixed (b) Working (c) Both a & b (d) None of above
- The measurement of amount of profit that can be obtained from given situation is ____
(a) profitability (b) net profit assumption (c) excess profit (d) none
- The formulae for capitalized cost factor (K) is ____
(a) $k = (i + 1)^n / (1 + i)^n - 1$ (b) $k = (1 + i)^n + 1 / (1 + i)^n$
(c) $(1 + i)^n + 1 / (1 + i)^n$ (d) none of above
- The formula for break-even is ____
(a) $F \times v / p$ (b) $p / v \times 1 / f$ (c) $f \times p / v$ (d) all of above
- The point at which an order should be placed to replace inventory is called.....
(a) statutory point (b) re - order point (c) pre - order point (d) none of above
- The formula of re-order point is ____
(a) re-order = lead time X average usage (b) re-order = lead time / average usage
(c) re-order = average usage / lead time (d) none of above
- Identify the objective of project development of chemical plant from below.....
(a) to decrease the production (b) to revamping and modernizing existing plant
(c) to stop business (d) none of above
- Identify factor effecting choice of process from given below.....
(a) Cost estimation (b) No. Of engineer required (c) both a & b (d) none of above

Q-2 Attempt the following. (Any Ten)

[20]

- Define: Replacement value, Asset value.
- Enlist different types of insurances.
- Define: Present value, Book value.
- Define: Needs, Wants.
- Define: Products, Sales.
- Name components of marketing environment.
- Define: Lead time, Economic Order Quantity.
- Enlist various factors in project cost estimation.
- Define: Reorder point, safety stock.
- Enlist different types of reactors with suitable examples.
- Explain pilot plant study.
- What are the stages of logical evaluation of process?

Q-3 Attempt the following.

- (a) Explain different types of interest and explain any one in detail. [05]
(b) Define depreciation. Explain any one method for calculating the depreciation. [05]

OR

Q-3 Attempt the following.

- (a) Write a note on taxes. [05]
(b) Explain briefly the source of long term capital. [05]

Q-4

- (a) Write a note on break even analysis. [05]
(b) Explain any five core concepts of marketing. [05]

OR

Q-4 Attempt the following.

- (a) Explain various stages of demands. [05]
(b) Write a note on mathematical methods for profit calculation. [05]

- Q-5** Write a note on primary and secondary factors involved in selection of plant location. [10]

OR

- Q-5** Discuss the needs and objectives of inventory management. [10]

- Q-6** Write note on selection of materials. [10]

OR

Q-6 Attempt the following.

- (a) Write a note on commercial plant. [05]
(b) Discuss principles of plant layout. [05]

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