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**SARDAR PATEL UNIVERSITY**  
**B.Sc. Industrial Chemistry, Semester-6 Examination**  
**March / April - 2019**  
**US06CICH04: Management, Costing & Plant Design**

Date: 01/04/2019, Monday

Time: 10:00 a.m. to 01: 00 p.m.

Total Marks: 70

**Q.1 Answer the following MCQs. (10)**

1. The task of arranging money for a business to achieve its objective is called \_\_\_\_\_ management.  
(a) Marketing (b) Finance (c) Sales (d) All of the above
2. Type of capital used in an organization is divided as \_\_\_\_\_.  
(a) Fixed (b) Working (c) Both a & b (d) None of the above
3. The document which expresses the responsibility of the company to repay a specific sum after a specific period and to pay interest at a specific rate during the intervening period is called \_\_\_\_\_.  
(a) Share (b) Dividend (c) Debenture (d) None
4. The formulae which show the value of the product is \_\_\_\_\_.  
(a) benefit / cost (b) cost / profit (c) Benefit/Profit (d) None
5. The pillars of marketing concept are \_\_\_\_\_.  
(a) Target market (b) Customer needs (c) Integrating marketing (d) All of above
6. What are formulae for P/V ratio?  
(a)  $1 - \text{variable cost} / \text{sales value}$  (b)  $\text{Sales value} - 1 / \text{variable}$  (c) Both a & b (d) None of above
7. The process of determining "How Much to Order" is called \_\_\_\_\_.  
(a) Economic order quantity (b) order quantity (c) Caring quantity (d) none of the above
8. The point at which an order should be placed to replace inventory is called \_\_\_\_\_.  
(a) Statutory point (b) Reorder point (c) Pre-order point (d) None of the above
9. Identify the factor on which the final selection is done.  
(a) Initial cost (b) Maintenance (c) Probable life (d) All of above
10. What gives the idea of the possibility to shape the material & to join it with the other material?  
(a) Economic requirement (c) service requirement (b) Fabrication requirement (d) all of these

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[P.T.O]

**Q.2 Answer the following short questions (ANY TEN) (20)**

1. Define financial management and explain the role of finance manager.
2. Enlist the sources of long term capital.
3. Explain the terms Depreciation, Depletion.
4. Explain the terms: Needs, Wants.
5. Explain the terms: marketing and Sales.
6. Define the marketing mix.
7. What are the primary factors considered in plant location?
8. Explain the terminology: Safety stock.
9. Explain the terminology inventories.
10. Define the pilot plant study.
11. Enlist different types of reactors with suitable examples.
12. Enlist the principles of plant layout.

**Q.3 Define financial management and explain in brief about sources of long term business purpose. (10)**

**OR**

**Q.3 Explain types of interests and method of calculating them. (10)**

**Q.4 Discuss the marketing pricing policy in short. (10)**

**OR**

**Q.4 Explain the mathematical methods for profitability calculation. (10)**

**Q.5 i) Explain the term EOQ & discuss the carrying cost and ordering cost. (05)**

**ii) Explain the term inventory management and give brief about its three forms. (05)**

**OR**

**Q.5 Explain the factors, which are involved in the selection of plant location. (10)**

**Q.6 Explain in details the commercial plant. (10)**

**OR**

**Q.6 Discuss & explain Principles of plant layout. (10)**

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