

# GBCS SCHEME

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18IM72

## Seventh Semester B.E. Degree Examination, Feb./Mar.2022 Value Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. Define :
- (i) Value engineering. (ii) Value analysis.  
(iii) Value (iv) Value management.
- Write the advantages and limitations of value analysis. (10 Marks)
- b. Differentiate between value analysis and value engineering. List and explain the traditional cost reduction techniques. (10 Marks)

OR

- 2 a. List reasons for unnecessary cost of product. Explain types of value and their effect in cost reduction. (10 Marks)
- b. Present a detailed case study of any simple product. (10 Marks)

### Module-2

- 3 a. Define function and functional cost. Explain function evaluation process. (10 Marks)
- b. List and explain any 3 function evaluation methods. (10 Marks)

OR

- 4 a. Explain the steps in problem settling system. (10 Marks)
- b. Explain various steps in problem solving. (10 Marks)

### Module-3

- 5 a. Write the meaning and importance of a value engineering job plan. (10 Marks)
- b. Explain the different phases of the Job plan. (10 Marks)

OR

- 6 a. Write a note on value analysis change proposal and list its benefits. (10 Marks)
- b. List and explain cost reduction programs. (10 Marks)

### Module-4

- 7 a. List and explain new value engineering techniques with suitable examples. (10 Marks)
- b. Explain functional analysis system technique. Write a brief case study of the same. (10 Marks)

OR

- 8 a. What is Value Analysis of Management Practice (VAMP)? List the steps involved and application of VAMP. (10 Marks)
- b. Explain the methodology of total value engineering. Write its need and benefits. (10 Marks)

### Module-5

- 9 a. Explain the application of value analysis in the field of accounting and cost reduction. (10 Marks)
- b. Explain the application of value analysis in manufacturing and quality control. (10 Marks)

OR

- 10 a. Compare the approach of value analysis with other management techniques. (10 Marks)
- b. Explain the application of value analysis in the field of purchasing and material management. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.