

GBCS SCHEME

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18IP/IM651

Sixth Semester B.E. Degree Examination, July/August 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 Discuss the applications of Value Engineering in the areas mentioned below: (20 Marks)
- Manufacturing
 - Marketing
 - Machine Design Engineering
 - Purchasing.

OR

- 2 What is Value Engineering? Explain the different types of values with examples. (20 Marks)

Module-2

- 3 a. State the functions of any 5 engineering products using a noun and a verb. (05 Marks)
b. Explain the 'evaluation of interacting functions' with a case study. (15 Marks)

OR

- 4 a. Describe the steps in 'problem-setting system' with suitable examples. (12 Marks)
b. List any 8 service related problems. (08 Marks)

Module-3

- 5 Explain in detail the different phases of value engineering job plan. (20 Marks)

OR

- 6 a. What is cost reduction programme? (04 Marks)
b. Discuss the essentials for success of cost reduction programme. (16 Marks)

Module-4

- 7 Discuss any 5 Value Engineering techniques. (20 Marks)

OR

- 8 a. Explain the construction of FAST diagram. (08 Marks)
b. Illustrate a FAST diagram for an overhead transparency projector. (12 Marks)

Module-5

- 9 Discuss the applications of value analysis to the following business related activities: (20 Marks)
- Sales
 - Inventory management
 - Quality control
 - Appearance design
 - Purchasing.

OR

- 10 Discuss the various parameters involved in the comparison of value analysis approach with cost cutting approach. (20 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.