

Code: 19HS1601

III B.Tech - II Semester – Regular Examinations – JUNE 2022**ENGINEERING ECONOMICS AND MANAGEMENT
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

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- Note: 1. This question paper contains two Parts A and B.
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
4. All parts of Question paper must be answered in one place.
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PART – A

1. a) Define Engineering Economics.
b) What is the importance of Economic analysis for building material selection?
c) What is the concept of opportunity cost?
d) State the concept of net present value.
e) List the project cost reduction methods.

PART – B**UNIT – I**

2. a) Define Micro and Macro Economics. Write about the Nature and scope of Micro and Macro Economics. 6 M
b) Discuss about the types of efficiency. 6 M
- OR
3. a) Explain the law of supply and demand. 6 M
b) Discuss about flow in economy. 6 M

UNIT – II

4. a) Describe Design. Explain the Design and Selection Process for a product. 6 M
- b) List and explain the different situations deserving elementary economic analysis. 6 M

OR

5. In the design of buildings to be constructed in Alpha State, the designer is considering the type of window frame to specify. Either steel or aluminum window frames will satisfy the design criteria. Because of the remote location of the building site and lack of building materials in Alpha State, the window frames will be purchased in Beta State and transported for a distance of 2500 km to the site. The price of window frames of the type required is Rs. 1000 each for steel frames and Rs. 1500 each for aluminum frames. The weight of steel window frames is 75 kg each and that of aluminum window frame is 28 kg each. The shipping rate is Rs. 1 per kg per 100 km. Recommend which design should be specified and what is the economic advantage of the selection? 12 M

UNIT-III

6. a) Explain about Life cycle costing. 6 M
- b) Differentiate between explicit costs and implicit costs. 6 M

OR

