

**GANPAT UNIVERSITY**  
**B.TECH SEM. III - MECHANICAL ENGINEERING**  
**CBCS REGULAR EXAMINATION NOV/DEC-2014**  
**2ME301 ENGINEERING ECONOMICS & INDUSTRIAL ORGANISATION**

Time: 3 Hours

Total Marks: 70

**Instructions:**

- 1). All questions are **compulsory**.
- 2). Figures to the **right** indicate full marks.
- 3). Answers to the two sections must be written in **separate** answer books.
- 4). Assume all necessary data.

**SECTION I**

- Que-1**
- A Give the various definitions about economics. (03)
- B Define Wealth and distinguish between Individual wealth, collective wealth and national wealth. (04)
- C In what sense is the term goods used in economics? Distinguish between (a) economics goods and free goods (b) material goods and non material goods (c) consumption goods and capital goods. (04)

OR

- Que-1**
- A Discuss economics as a social science. (03)
- B What do you mean by utility? Distinguish between (a) Utility and Usefulness (b) Utility and Satisfaction. (04)
- C What do you understand by the term 'value'? Explain the difference between (a) value and utility (b) value in use and value in exchange. (04)

- Que-2**
- A Explain the chief characteristics of human wants. What is their importance in economics? (04)
- B Define wages. Distinguish between: - (a) Time wages and price wages (b) Nominal Wages and Real Wages. (04)
- C What are the various constitute elements of gross interest.? (04)

OR

- Que-2**
- A Mangoes are selling at the price 50 P. each and a consumer demands 25 mangoes at this price. If the price falls to 40 P. each and the consumer now demands 15 mangoes, find out his elasticity of demand for mangoes. (04)
- B Define the term 'demand' as used in economics and distinguish between price demand, Income demand and cross demand. (04)
- C What is the practical importance of the concept of elasticity of demand? (04)

- Que-3**
- Attempt all.**
- A What is money? How is money an improvement on barter? (04)
- B What is a bank? Explain the functions of a modern commercial bank. (04)
- C What is international trade? Explain the relative advantages of International trade. (04)

**SECTION II**

- Que-4**
- A Explain advantages and disadvantages of Urban plant site. (03)
- B Write a short note on 'flow pattern' (04)
- C Explain process layout and product lay out with neat sketch. (04)

OR

- Que-4**
- A Explain the various considerations in building design. (03)
- B Discuss the type of building construction. (04)



C Write only various procedure step involved in plant layout .

- Que-5 A Write a short note on 'overheads' (04)  
B Two molders cast 25gears in a day. Each gear weight 3kg and the gear material costs Rs12.50 per kg. If the overhead expenses are 150% of direct labour cost and two molders are paid Rs 70 per day calculate the cost of producing one gear. (04)  
C What is depreciation? What are various causes of depreciation. (04)

OR

- Que-5 A What is line organization? What are its limitations? How does the line and staff structure remove these limitations? (04)  
B Discuss herzberg's theory of motivation. (04)  
C Write-down different methods for calculating depreciation. Explain any one of them. (04)

- Que-6 Attempt all. (04)  
A What is delegation? Discuss the process of delegation (04)  
B A machine costing Rs.1,50,000 has a scrap value of Rs.20,000 at the end of 10 years of its serviceable life. If the machine runs for 2,100 hours per years, calculated the depreciation rate per hour of the machine and the total annual depreciation. (04)  
C Explain element of cost. (04)

END OF PAPER