

CHITTAGONG UNIVERSITY OF ENGINEERING & TECHNOLOGY

B. Sc. Engineering Level-1 Term-I, Final Examination 2020

Subject : Civil Engineering

Paper : Engineering Economics (HUM-103)

Time : 2 Hours 30 Minutes

Full Marks : 100

*Answer any TWO questions from EACH section. Use separate script for EACH section. The figures in the right margin indicate full marks. Use standard value if needed.*

**SECTION-A**

- Q.1. (a) What is law of demand? Distinguish between movement along the demand curve and shift of the demand curve. (15)  
(b) Define market equilibrium. Graphically explain how does the market equilibrium changes due to the shifts of the demand and supply curve. (10)
- Q.2. (a) Graphically explain the law of diminishing marginal utility. (10)  
(b) Define substitute good and complementary good. (10)  
(c) What is cross elasticity of demand? (5)
- Q.3. (a) Graphically explain Consumers' Surplus and Producers' Surplus (10)  
(b) What are the assumptions of the perfectly competitive firm? Graphically explain that a perfectly competitive firm can earn supernormal profit, normal profit or it can bear losses in the short run. (15)

**SECTION-B**

- Q.4. (a) What are the differences between Microeconomics and Macroeconomics? (10)  
(b) Explain the methods of calculating national income. (10)  
(c) What is nominal GNP? (5)
- Q.5. (a) Describe the circular flow of income for a three sector economy (10)  
(b) What are the problems of calculating national income in the developing country like Bangladesh? Briefly explain. (15)
- Q.6. (a) What do you understand by Natural Rate of Unemployment (NRU)? Explain the impact of COVID-19 virus in the macroeconomic system. (10)  
(b) Distinguish between frictional and structural unemployment (15)

**--: The End :-**