UNIVERSITY WITH A PURPOSE

End Semester Examination, December 2017

Program: BTech CSE TI/ OG/ SCF
Subject (Course): Managerial Economics
Max. Marks : 100

Course Code: BBCE114

No. of page/s:

Section- A (20 Marks)

Note- Attempt all objective type questions. Each question has 2 Marks.

- 1. The law of demand states that
 - A. Other things remaining equal, as the price increases the demand increases
 - B. Other things remaining equal, as the price increases the quantity demanded decreases
 - C. As the income level of the consumer increases the quantity demanded increases.
 - D. None of the above
- 2. Market equilibrium refers to a situation in which market price
 - A. is high enough to allow firms to earn a fair profit.
 - B. is low enough for consumers to buy all that they want
 - C. is at a level where there is neither a shortage nor a surplus
 - D. is just above the intersection of the market supply and demand curves
- 3. What is the effect of an increase in the price of fuel on the transportation services market where fuel is an input?
 - A The demand will increase
 - B. The demand will decrease.
 - C. The supply will increase.
 - D. The supply will decrease.
- 4. Which of the following market structures has homogeneous products?
 - A. Perfect Competition
 - B. Monopoly
 - C. Monopolistic Competition
 - D. Oligopoly
- 5. Percentage change in demand of X/percentage change in price of Y
 - A. Price elasticity of demand
 - B. Income elasticity of demand
 - C. Cross elasticity of demand
 - D. Promotional elasticity



Duration

: 3 Hrs

- 6. In Economics Central Problem is
 - A. Production
 - B. Money
 - C. Consumption
 - D. Scarcity
- 7. Which of the following **does not** cause a shift in the demand curve?
 - A. Change in the price of the good.
 - B. Change in the income of the buyers.
 - C. Change in the personal preferences.
 - D. Change in the price of the related goods.
- 8. Laffer curve shows the relationship between
 - A. Deadweight loss and tax revenue
 - B. Input and output
 - C. Tax revenue and tax size
 - D. Cost and ouput
- 9. A good is normal if a rise in consumers' income causes
- A. the quantity demanded to increase.
- B. The demand to decrease.
- C. the demand to increase.
- D. None of the above is correct.
- 10. A demand curve is said to be perfectly inelastic if it is
- A. Horizontal
- B. Vertical
- C. Downward Sloping
- D. Upward sloping

Section B (20 Marks)

Note- Which of the following statements are true or false. Each question has 2 Marks.

- i. Loss in total surplus due to market distortion such as tax is known as deadweight loss.
- ii. DVD and TV Screens are substitute goods.
- iii. As income rises, demand for inferior good falls.
- iv. Deadweight loss increases as elasticity decreases.
- v. Binding price ceiling leads to shortage.



- **vi.** Cross elasticity of demand means the sensitivity of quantity demanded of a commodity to a given change in its own price.
- **vii.** If demand curve is more elastic than the supply curve, tax burden lies more on buyers than sellers.
- viii. A shift in demand is referred to as a change in quantity demanded.
- ix. Technological advancement causes a shift in the demand curve.
- **x.** Income Elasticity of demand is negative for inferior goods.

Section C (30 Marks)

Note- Attempt any 3 questions. Each question has 10 Marks.

1. Solve the supply and demand curves for equilibrium price, quantity, consumer surplus, producer surplus and total surplus. Also, show in a diagram. Shade and label the respective area.

$$Q_d = 15 - P$$

$$Q_s = -5 + P$$

- 2. Write short notes on any 5 of the following:
 - I. Perfect Competition
 - II. Cross Elasticity of Demand
 - III. Deadweight loss
 - IV. Market Equilibrium
 - V. Tax Incidence
 - VI. Complements & Substitutes
- 3. Using supply and demand diagrams, show the effect of the following events on market for personal computers:
 - i) The price of computer software rises.
 - ii) The price of computer chip falls.
- 4. What happens to deadweight loss and tax revenue when a tax is increased? Explain with the help of laffer curve.

Section D (30 Marks)

Note- Attempt any 2 questions. Each question has 15 Marks.

1.	Price (In \$)	Quantity demanded (Business travellers)	Quantity demanded (Vacationers)
	150	2100 tickets	1000 tickets
	200	2000	800
	250	1900	600
	300	1800	400

Using the table,

- i) As the price of ticket rises from \$200 to \$250, what is the price elasticity of demand using mid point method for
 - a) Business travelers
 - b) Vacationers
- ii) Calculate the Price elasticity of demand using point elasticity method/ Derivative method for the equation Q^D= 1500- 100P when P= Rs. 10 and Q= 500 units.
- 2. The demand function for Good X is defined as $Q_X = 75 2P_X 1.5P_Y$, where P_Y is the price of Good Y. Calculate the price elasticity of demand using the mid-point formula for $P_X = 20$ and $P_Y = 10$. Determine whether demand is elastic, inelastic, or unit elastic with respect to its own price and whether Good Y is a substitute or a complement with respect to Good X. Define the cross elasticity of demand.
- 3. i) How do the market structures of perfect competition and monopoly differ from each other?
- ii) What happens to consumer and producer surplus when the sale of a good is taxed? How does the change in consumer and producer surplus compare to tax revenue? Explain.