Roll Number:_____

Thapar Institute of Engineering& Technology, Patiala
(Deemed University)
School of Humanities & Social Sciences
Auxiliary Exam Examination-2023

Auxiliary Exam	Course Code: UHU-005
	Course Name: Humanities for Engineers
27th August 2023	Day and Time: Saturday, 5:30 Pm
Time: 3Hours, M. Marks: 100	Name of Faculty: A. Sharma

Instructions:
- **Attempt any five questions. Assume missing data (if any)**
- **Specify the question attempted and page number on the first page of the answer sheet.**

Q.1	Briefly explain three ego states under Transactional Analysis. Add examples, if any.	[10]
Q.2	Discuss Emotional Intelligence and How Emotional Intelligence is important in professional activities with example.	[10]
Q.3	(a) Describe the equilibrium condition of the perfectly competitive industry in the very long run, long run and short run. (b) The total cost function of a perfectly competitive firm is given in the following schedule: | Output Units	Total Cost (in INR)
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0	50
10	120
20	170
30	210
40	260
50	330
60	430 | The prevailing market price is Rs. 7 per unit. Find out the firm's profit maximizing output level?	[10]
Q. 4	(i) The Total Cost function for a monopolist is given by the equation $TC = 900 + 40Q^2$. The demand function for the good produced by the monopolist is given by $2Q = 48 - 0.08P$. What is the profit maximizing price for the monopolist? (ii) There are 100 firms, with identical cost functions, in a perfectly competitive industry. The demand function for the industry is estimated to be $Qd = 2000 - 200P$. If the cost function of a firm is $TC = 200 - 50Q + 2Q^2$, what will be the equilibrium price of the product ?	[2+4+4]
Q. 5	(a) Define the meaning of demand in economics. Also discuss the various factors determining demand for a product. (b) Explain the law of supply. Distinguish between change in quantity supplied and change in supply. (c) The total cost equation of a firm is given by the equation where TC is total cost and Q is the level of output. $TC = 5,000 + 2,000Q - 10Q^2 + 0.25Q^3$	[2*5=10]