

## MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: HSMC 301/HSMC-301/HSMC301 Economics for Engineers (Humanities-II)
UPID: 003446

Time Allotted : 3 Hours

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)	[1 x 10 = 10]
Answer any ten of the following .	(1710-10)
The combination of stagnation and inflation is known as	
In the situation of bankruptcy, a stock which is recorded above common stock	k and below debt account is
What is WPI?	
Sensitivity of demand to change in price is known as	
Decision tree algorithm belongs to thefamily.	
A firm buys products but does not pay to suppliers instantly. This is recorded	as
What is the usage of Power-sizing Model?	
(Via) The owner of the debenture is qualified for Fixed-rate interest. (True / False	)
(XX) A newfatio bassing two risks requirities can be turned risk less if	<u>—</u> ·
On balance sheet, accruals, notes payable, and account payable are listed u	inder current habilities (11 de 7 1 dise)
(XI) A company that issues stocks and bonds to raise funds results in	·
What Is the Benefit-Cost Ratio (BRC)?	
Group-B (Short Answer Type Question)	
Answer any three of the following:	[5 x 3 = 15]
2. What is Income Statement?	(5)
3. What is a patent?	[5]
4. What are Recurring cost and Non-recurring cost?	[5]
5. How can GST give relief to the overall tax burden?	[5]
<ol><li>Is there any Importance of Ethics in Engineering and Engineering Economy?</li></ol>	[5]
Group-C (Long Answer Type Question)	[ 15 x 3 = 45 ]
Answer any three of the following:	•
7. (a) Explain the types of property in the context of Depreciation.	[5]
(b) 'Almost all tangible property can be depreciated' Explain.	[4]
(a) loss important exception is land, which is never depreciated.' Explain	. [6]
<ol> <li>(a) Suppose a professional golfer wants to invest some recent golf winnings in one year. Currently, the bank is paying a rate of 5.5% compounded annu expected to be 2% per year.</li> </ol>	USI HORRETOWN DRINK TO:
identify i, f and i'. Repeat for inflation of 8% per year.	[9]
(b) What is CPI or retail inflation?	_
<ul> <li>9. (a) A firm expanded one of its manufacturing operations inside an existing to and packaging equipment was purchased for \$800,000. Sales revenue million. Operating expenses for that year, not including the capital expenses have new equipment qualifies for 100% bonus depreciation.</li> <li>(i) What is the first-year depreciation charge?</li> <li>(ii) What is the first-year taxable income?</li> </ul>	tot the year mas value
(iii) What are the federal income taxes for the year?	[7]
(b) Illustrate the model of a Balance sheet.	[8]
10. (a) What are the steps involved in the rational decision making process?	171
(b) What do you know about the unusual aspects of engineering decision making	ngr
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	[5]
11. (a) How is CPI used to measure inflation?	[2]
<ul> <li>(b) Does an increase in CPI mean inflation?</li> <li>(c) What are the probability distributions for the annual benefit and life for the following project?</li> <li>The annual benefit's most likely value is \$8000 with a probability of 60%. There is a 30% probability that it will be \$5000 and the highest likely value is \$10,000. A life of 6 years is twice as likely as life of 9 years.</li> </ul>	[8] y a

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