



Dr.J.J.Magdum Trusts,

Dr. J .J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology

Continuous Internal Evaluation - II

Class: SY Year: 2024-25 Sem: I Subject: Statistics and Fuzzy Systems

Date: 30/9/2024

Time: 10am to 11am

Max Marks: 30

Regular batch

Q No 1 : Attempt the following			CO																													
1.	Solve the assignment problem for minimization (10M) <table><tr><td></td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>P</td><td>35</td><td>24</td><td>28</td><td>26</td><td>31</td></tr><tr><td>Q</td><td>34</td><td>32</td><td>35</td><td>24</td><td>32</td></tr><tr><td>R</td><td>29</td><td>25</td><td>38</td><td>35</td><td>33</td></tr><tr><td>S</td><td>28</td><td>26</td><td>27</td><td>33</td><td>32</td></tr></table>		A	B	C	D	E	P	35	24	28	26	31	Q	34	32	35	24	32	R	29	25	38	35	33	S	28	26	27	33	32	CO1,CO3
	A	B	C	D	E																											
P	35	24	28	26	31																											
Q	34	32	35	24	32																											
R	29	25	38	35	33																											
S	28	26	27	33	32																											
2.	B)Solve the assignment problem for maximization (8M) <table><tr><td></td><td>A</td><td>B</td><td>C</td><td>D</td></tr><tr><td>P</td><td>4</td><td>13</td><td>29</td><td>60</td></tr><tr><td>Q</td><td>31</td><td>49</td><td>50</td><td>21</td></tr><tr><td>R</td><td>41</td><td>39</td><td>40</td><td>29</td></tr><tr><td>S</td><td>49</td><td>50</td><td>31</td><td>22</td></tr></table>		A	B	C	D	P	4	13	29	60	Q	31	49	50	21	R	41	39	40	29	S	49	50	31	22	CO1,CO3					
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Q	31	49	50	21																												
R	41	39	40	29																												
S	49	50	31	22																												
3	Find $\int_2^3 y dx$ where $y = e^x/(e^x+1)$ by Trapezoidal rule taking 8 steps. (6M)	CO1,CO3																														
4	Evaluate $\int_1^2 \frac{x+1}{2x+1} dx$ by Simpsons 1/3 rule taking $h = \frac{1}{8}$ (6M)	CO1,CO3																														



Dr. J. J. Magdum College of Engineering

Information Technology [2024-25]

CIE-II

Subject : [PCC-IT302] Digital System and Microprocessor - Theory Faculty : SAYALI HOLKAR

Year : Second Year - Sem III Marks : 30 Date : 29 September, 2024 Duration : 60 Minutes

(Regular)

Figures to the right indicate full marks.

Draw neat diagram wherever necessary.

	Marks	Course Outcome	Blooms Level	Performance Indicator
Q1 A) Draw interfacing of a 4K EPROM and 4k RAM having Starting address 0000H with 8085 Microprocessor, Use demux add data lines & 3.3 decoder (7415138) .	14	CO2,CO3	Apply	
B) Write note on Multiplexer. Implement 4:2 multiplexer using gates.				
Q2	10			
A) Explain opcode fetch cycle.		CO2,CO3	Evaluate.	
B) Write a note on Full Adder.			Understand	
Q3 . Draw and explain the architecture of 8085 microprocessor.				
OR				
Q3. Write a note on BCD to 7 segment Decoder	6	CO2,CO3	Evaluate, Understand	



Dr. J. J. Magdum College of Engineering

Information Technology [2024-25]

CIE-II (Regular)

Subject : [PCC-IT 303] Data Communication - Theory Faculty : POURNIMA PATIL

Year : Second Year - Sem III Marks : 30 Date : 30 September, 2024 Duration : 60 Minutes

Instructions:

1. All questions are compulsory.
2. Figures to right indicate write marks.
3. Draw neat diagram wherever necessary.

Question	Marks	Course Outcome
Q.1		
a. What are the three major classes of guided media? Explain one of them?	7.00	CO5
b. Explain Physical layer in detail.	7.00	CO3
Q.2 Write short note on.		
a.	10.00	CO3, CO5
i. What is OSI? List & Draw all layer of OSI. 05		
ii. Difference between UTP & STP. 05		
b. What is unguided media & its three broad groups ? Explain Radio waves in details (diagram, application).	6.00	CO5
OR		
b. Explain Data link layer		



Dr. J. J. Magdum College of Engineering

Information Technology [2024-25]

CIE-II

Subject : Discrete Mathematical Structures - Theory Faculty : JAYASHREE PATIL

Year : Second Year - Sem III Marks : 30 Date : 1 October, 2024 Duration : 60 Minutes

- All questions are compulsory

- Figures to the right indicate full marks.

- Draw neat diagram wherever necessary.

Sr.No.	Question	Marks	Course Outcome	Blooms Level	Performance Indicator
1	Q.1 4} and $R = \{ \langle 1, 1 \rangle, \langle 1, 4 \rangle, \langle 4, 1 \rangle, \langle 4, 4 \rangle, \langle 2, 2 \rangle, \langle 2, 3 \rangle, \langle 3, 2 \rangle, \langle 3, 3 \rangle \}$ write matrix of R and draw its Graph.	7	CO3, CO6	Create, Evaluate, Understand	
2	b. Explain what is POSET? Draw the Hasse diagram representing the partial order $\{ \langle a, b \rangle \mid a \text{ divides } b \}$ on $\{1, 2, 3, 4, 5, 12, 24\}$	7	CO3, CO6	Create, Evaluate, Analyze, Understand, Remember	
3	Q.2 a. Write short notes on 1. Properties of Binary Relation. 2. Types of functions	10	CO3, CO6	Analyze	
4	b. Let $A = \{1, 2, 3\}$, $B = \{a, b, c\}$ consider the functions $f = \{ \langle 1, a \rangle, \langle 2, b \rangle, \langle 3, c \rangle, \langle 4, c \rangle \}$, In each case state whether the given function is Many-One, One-One, Onto & Into. OR Let $A = \{1, 2, 3\}$, $B = \{a, b\}$, & $C = \{5, 6, 7\}$ consider the functions $f = \{ \langle 1, a \rangle, \langle 2, a \rangle, \langle 3, b \rangle \}$ & $g = \{ \langle a, 5 \rangle, \langle b, 7 \rangle \}$. Find the composition of $g \circ f$.	6	CO3, CO5, CO6	Create, Analyze, Understand, Remember	



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Continuous Internal Evaluation (CIE): II

Class: S.Y. B. Tech. (IT)
Div.: A

Year: 2024-25
Sem: I

Subject: Fundamental of Economics and Management

Date: Tuesday, 01/10/2024

Time: 11.15 am to 12.15 am

Max Marks: 30

Instructions:

1. All questions are compulsory.
2. Figures to right indicate write marks.

Que. No	Sub Que. No	Questions	Marks	CO
Que. 01	a)	Define the term Market. Explain Monopolistic Competition and Oligopoly Market.	07	1
	b)	What is Production Function? Explain different Laws of Production.	07	1
Que. 02	a)	Write short notes on 1. Short Run Cost. 2. perfect competition	10	2
	b)	Define the term Cost and explain kinds of cost ? OR What is Monopoly? Explain types of Monopoly.	06	2