G.V.M's G.G.P.R. College of Commerce and Economics Farmagudi -Goa

BCA (Semester II) Intra Semester Assessment (ISA)-(Test-III) March 2017 ENVIRONMENTAL STUDIES

MARKS: 15 TIME: 45 Minutes

Answer any five of the following questions: (10 mks)

- 1. Explain disaster management.
- 2. What are the impacts of global warming?
- 3. Define acid rain.
- 4. Write on value education.
- 5. State some strategies to combat ozone layer depletion.
- 6. Explain forest conservation act.

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DATA STRUCTURES

MARKS: 15	TIME: 45 Minutes
Q.1. Define strictly binary tree.	(1 mk)
Q.2. Define Leaf Node.	(1 mk)
Q.3. Define Almost complete binary tre	ee. (2 mks)
Q.4. State tree traversal techniques wit	ch example. (3 mks)
Q.5. Write C representation for the following	owing. (3 mks)
a.maketree(x)	
b.setleft(p,x)	
c.isright(p)	
Q.6. Write C program to create and dis	play a binary tree. (5 mks)

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DISCRETE MATHEMATICS

MARKS: 15 TIME: 45 Minutes

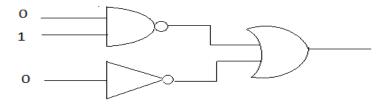
1. Consider p:n is a negative integer & q:n is greater than 10. Express the following compound statements in sentences

i) $(p q) \vee p$, ii) $p \leftrightarrow q$. (2 mks)

2. Check whether the $(r V^s) \rightarrow (^s \Lambda^r)$ is a tautology. (3 mks)

3. Verify $\overline{(x+y)\cdot(x\cdot y)} = \overline{(x\cdot y)}$ (3 mks)

4. Find the output for the following circuit diagram



(2 mks)

5. Which of the following strings belong to the L(R) over σ ={a,b,c,d}, where R= $(a|b)^*cd^*$.

i) aacddc, ii) aaaacddd, iii) bbbcdd, iv) cdd, v) abbbcdd vi) aaaaac (2 mks)

6. Give three strings that belong to the language L given by the grammar $G=\{N,V,\sigma,P\}$, where $N=\{S,Q,R\}$ (with S as the starting point), $V=\sigma=\{a,b,c\}$ and P is given as follows

$$S \rightarrow aQ, Q \rightarrow bQ, Q \rightarrow cQ, Q \rightarrow cR, R \rightarrow b.$$
 (3 mks)

------ ALL THE BEST-----

G.V.M'S G.G.P.R. COLLEGE OF COMMERCE & ECONOMICS FARMAGUDI, PONDA INTRA SEMESTER ASSESSMENT TEST - III B.C.A. SEMESTER II ,MARCH 2017 COST ACCOUNTING

MARKS :- 15	COST ACCOUNTING	017
		Duration:- 45 minutes
().1) Differentiate between T		Salmini Ct.

Q.1) Differentiate between Time Rate system & Piece Rate System of wage payments? (2 marks) Q.2) Explain in brief:

a) LIFO Method

b) Weighted Average Method

(2 marks) (2 marks)

Q.3) Following is a cost data relates to "CMRS Company". •

(9 marks)

1st Opening Stock 250 units @ Rs 20 each. 3^{rd} Purchased 200 units @ Rs. 21 each.

5th Issued 300 units. 7th

Purchased 400 units @ Rs 24 each. 8th

Issued 250 units 12th

Issued 150 units 23rd

Purchased 250 units @ Rs. 25 each.

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INTRA SEMESTER ASSESSMENT TEST-3 SEMESTER II MARCH 2017

F.Y.B.C.A. OPERATING SYSTEM CONCEPTS

MA	RKS:- 15		Duration:- 45 minu	ites
				-
ANSWER THE FOLLOWING :-				
1. 1	Explain External F	ragmentation. Also, explain	in Page Table.	(2 mks)
2. Draw the Gantt chart based on the given processes and calculate the waiting time and the average waiting time, for the Round-Robin				
	Process	with a time quantum of 4 Burst Time	milliseconds.	(2 mks)
	Pı	24		
	P_2	8		
	P_3	3		
	P ₄	9		
	Explain Segmentati and STLR.	on with an example. Also,	elaborate on STBR	(3 mks)
4. Explain the Resource-Allocation Graph with the help of a diagram. Also, explain that "All deadlocks are unsafe, but all unsafe are not deadlocks". (4 mks)				
		W.i. D. 11		
3. E	Explain the Readers	-Writers Problem.		(4 mks)
