Unit Test I

Bharati Vidyapeeth's college of engineering for women,Pune-43.

Academic year 2011-12

SUB-DELD

Class- SE

Marks 30

*Instructions to candidates.

1) Q.1 is compulsory.

2) Solve any 1 from Q.2 & Q.3

3) Neat diagrams must be drawn whenever necessary.

Q.1)

A) Minimize the following logic function using K-map & verify the answer using Quine-McCluskey method.   **8M**

$Y(A,B,C,D)= \sum m(0,1,2,3,5,7,8,9,1,14)$

B) Design & explain 16:1 MUX using 4:1 MUX.   **8M**

Q.2) What is difference between multiplexer & demultiplexer.   **8M**

OR

Q.3) Convert the following octal nos. into it's equivalent Hexadecimal , binary , & decimal numbers.   **8M**

i) $(76)_8$ ii) $(0.7634)_8$ iii) $(1567)_8$

Q.4) Solve any **ONE**.   **6M**

a)Implement full adder using demultiplexer.

b) Simplify the following equation using K-map & realize the minimized expression using basic gates.

$Y= \sum m(1,5,7,9,11,13,15)$.

****************************** ******* ALL THE BEST *************************

Bharati Vidyapeeth's College of Engg. For Women, Pune-43
Computer Engineering Department
UNIT TEST –I

Class: S.E. Computer
Date: 8/8/2011

Sub: DSA
Marks: 30

Instructions: All questions are compulsory

Q1. a) Write a C function for Factorial of given number using Recursion. (6)
    b) Write Definition of Recursion. (2)

Q2. What is Array? Explain Row major and Column major with example. Write Functions For Same. (8)

Q3. a) What is Stack? (2)
    b) Write a program for Reverse given string using Stack data Structure. (8)

Q4. Write Program for String operations (Any 4 operations)
              OR
Write Program for Transpose of Given Matrix. (4)

Bharti Vidyapeeth's college of
Engineering for women, Pune-43.
UNIT TEST - II I
Subject - HSS
Marks 50.   S.E. computer   Date -
                                          Time

Q.1 a) What is Eco-System. Explain need & importance
of conservation of Eco-System?
                                    - 8 Marks

b) what are different sources of non-
conventional energy. Explain in detail?
                                    - 8 Marks.

c) Define following terms
   1) IMR (Infant Mortility Rate)
   2) zero population group.
                                    - 2 Marks.

Q.2. a) What is pollution? what are the steps
Taken by leading IT Industries for
Pollution control.
                                    10 Marks.

b) what is Global warming? Explain effect
of global warming in detail.
                                    - 6 Marks

OR.

Q.3 a) What is Economics. state the nature &
scope of economics.
                                    - 6 Marks.

b) Explain NPP - 2000
                                    - 6 Marks.

c) what are the functions of planning
Commission?
                                    - 4 Marks.

Q.4 a) Explain the terms Demand & Supply. What is the law of demand & Supply?

— 8 Marks

b) Write a short note on
1) Food chain
2) Food web

— 8 Marks

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