ENVIRONMENTAL STUDIES

Duration:- 30 minutes   Marks:- 10

Q.1) Explain classification of Pollutants.   (2 mks)

Q. 2) What are the different sources of Water Pollution?   (2 mks)

Q.3) What is Radioactive Pollution? Write any two effects of Radioactive
    Pollution.

                                                        (2 mks)
Q.4) What are the different methods of disposal of Solid waste. (2 mks)

Q.5) What is Biodiversity? State its levels.   (2 mks)

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G.V.M's G.G.P.R. College of Commerce and Economics
Farmagudi, Ponda-Goa.
B.C.A. (Semester II) Intra Semester Assessment (I.S.A.) Test-I January 2018
OPERATING SYSTEM CONCEPTS

Duration:- 45 minutes   Marks:- 15

ANSWER THE FOLLOWING :-

1. What are the basic elements of a Computer System ?   (2 mks)

2. What is the main difference between the User mode and the
   Kernel mode ?   (2 mks)

3. Explain – Operating System is a Control Program.   (3 mks)

4. Explain the major services of Operating System.   (4 mks)

5. Explain the Process State with the Diagram.   (4 mks)

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DATA STRUCTURES

Duration:- 45 minutes	Marks:- 15

Q. 1) Define the following:
    a) Pushdown list. (2 mks)
    b) Queue Data structure. (2 mks)

Q. 2) Answer the following(Any 2).
    a) State and explain primitive operations on stacks. (3 mks)
    b) Write C representations for Circular Queues. (3 mks)
    c) Discuss the uses of stack data structure. (3 mks)

Q. 3) Write a C Program for validating an expression for
    Parenthesis using stacks. (5 mks)
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Duration:- 45 minutes   Marks:- 15

Q. 1) Explain the following:-

a) Fixed Cost   (1 mk)
b) Cost Accounting   (1 mk)
c) Give any two points of distinction between Cost Accounting
   and Financial Accounting.   (1 mk)

Q. 2) "SASHA Company" submits the following information for the year 2017.
   → Inventories at the beginning of 2017:   (12 mks)
   o Finished goods   7000
   o Work – in – progress   4000
   o Purchase of raw materials   110000
   → Material Inventory:
   o Opening   3000
   o Closing   4000
   → Direct labour   65000
   → Income tax   5000
   → Dividend   3000
   → Factory overhead – 60% of Direct labour cost.
   → Inventories at the close of the year:
   o Finished goods   8000
   o Work-in-progress   6000
     Goodwill written off   10000
   → Other expenses for the year are as follows:
   o Selling expenses   - 10% of sales.
   o Administration expenses – 5% of sales.
   → Sales for the year -   275000

   Prepare statement of Cost. Show all your working Notes.

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

(semester2), I S A - Test I, Jan 2018.
Discrete Mathematics

rKS = 15   Duration = 45 minutes

Answer the following questions

rite each of these sentences in the form "if p, then q".
It is necessary to walk 8 miles to get to the top of
's peak, (b) If you drive more than 400 miles, you will need
uy gasoline (c) your guarantee is good only if you bought   (3marks)
. CD player less than 90 days ago.

nstruct a truth table for the compound proposition below.   (3marks)

$$(p \leftrightarrow q) \vee (\neg q \leftrightarrow r)$$

row that $\neg (p \rightarrow q) \rightarrow \neg q$ is a tautology.   (3marks)

.et $A = \{0, 2, 4, 6, 8, 10\}$, $B = \{0, 1, 2, 3, 4, 5, 6\}$
d $C = \{4, 5, 6, 7, 8, 9, 10\}$. Find   (3marks)

$(A \cup B) \cap C$ and (b) $(A \cap B) \cup C$.

how that $(p \rightarrow r) \vee (q \rightarrow r)$ and $(P \wedge q) \rightarrow r$ are

gically equivalent.   (3marks)