

GVM's GGPR College of Commerce & Economics,
Farmagudi- Ponda, Goa.
B.C.A. (Semester II) Intra Semester Assessment (ISA) I- Test,
January 2019
ENVIRONMENTAL STUDIES

Duration: 30 minutes

Marks: 10

Answer any FIVE of the following questions

(5 X2= 10 Marks)

1. Define Environmental pollution.
2. What are causes of Air pollution?
3. Write a note on consequences of water pollution.
4. Write any four prevention measures that you can take to prevent pollution.
5. Write a note on control measures of land pollution.
6. Define Flood and Cyclone -

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DISCRETE MATHEMATICS

Duration: 45 minutes

Marks: 15

Answer **ANY 3** of the following questions.

(5×3=15)

Q 1. If $A = \{1,2,3,4\}$ $B = \{3,4,5,6\}$ & $U = \{0,1,2,3,4,5,6,7,8,9\}$ then verify that

(i) $A - B = A \cap B^c = B^c - A^c$

(ii) $(A - B) \cup (B - A) = (A \cup B) - (A \cap B)$

Q 2. Given $A = \{1,2,3\}$ & $B = \{a, b, 1\}$ then

(i) Find $A - B$ & $B - A$

(ii) Show that $(A - B) \subset A$ & $(B - A) \subset B$

Q 3. A statistician conducted a survey of 500 people and found that 300 liked brand A and 270 preferred brand B. Then how many of them liked both brands?

Q 4. Let $A = \{x | x < 4, x \in \mathbb{N}\}$. A relation R on the set A is given by

$R = \{(1,1), (1,2), (2,1), (2,3), (3,2)\}$ prove that R is symmetric relation but it is neither reflexive nor transitive.

Q 5. Prove that the relation R on the set of integers \mathbb{Z} as

$R = \{(x, y) | x - y \text{ is divisible by } 3 \text{ \& } x, y \in \mathbb{Z}\}$ is an equivalence relation.

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COST ACCOUNTING

Duration: 45 minutes

Marks: 15

Q.1) The cost of sale of Product-A is made up as follows:

PARTICULARS	Rs.
Materials used in Manufacturing	5,500
Materials used in Packaging	1,000
Materials used in selling and Product	150
Materials used in the Factory	75
Materials used in the Office	125
Labour required in production	1,000
Labour required for Supervision	200
Direct Expenses	500
Indirect Expenses – Factory	100
Office expenses	125
Depreciation – office	75
Depreciation – Factory	175
Selling Expenses	350
Freight on materials	500
Adverting	125

Assuming that all products manufactured are sold, what should be the selling price to obtain a profit of 25% on selling price? (10)

Q. 2) Answer the following

1. Distinguish between Cost Accounting and Financial Accounting . (2)
2. Cost centre. (1)
3. Advantages of Cost Accounting . (2)

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DATA STRUCTURES

<u>Duration: 45 minutes</u>	<u>Marks: 15</u>
Q1) Why is stack called pushdown list?	2 Mark
Q2) What is data structure?	2 Mark
Q3) Convert the following to prefix & postfix expression	4 Mark
a) $A-B/(C*D\$E)$	
b) $A\$B\C	
Q4) Write C Representation for	3 Mark
a) Push operation b) Pop operation	
Q5) Write C program to validate parenthesis in an expression using stack.	4 Mark