Goa Vidyaprasarak Mandal's

Gopal Govind Poy Raiturcar College of Commerce & Economics, Farmagudi. B.C.A. (Semester I) Intra Semester Assessment (ISA) (Test III), September 2018

PROBLEM SOLVING & PROGRAMMING CONCEPTS

Duration: 45minutes

Marks:15

Q.1) State true or false.

(3mks)

- a) An array can store infinite data of similar type.
- b) The gets function automatically appends the null Character at the end of the string.
- c) Accessing an array outside its range is a compile time error.

Q.2) What is an array?

(2mks)

Q.3) Find out errors, if any, in the following code segment.

(2mks)

a) int X[3,4] int matrix[3],[5];

Q.4) State and explain various functions used to read strings.

(3mks)

Q.5) Write a C program to compare two strings.

(5mks)

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

Farmagudi, Ponda-Goa.

B.C.A. (Semester I) Intra Semester Assessment (I.S.A.) Test-III September 2018

BASIC MATHEMATICS

Duration: - 45 minutes Marks: - 15

Q. Answer ANY 3 of the following questions: $(5 \times 3 = 15 \text{ Marks})$

Q1. Prove that

a)
$$\frac{1-\cos\theta}{1+\cos\theta} = \frac{\sec\theta-1}{\sec\theta+1}$$

b)
$$tan^2\theta = \frac{1 - cos^2\theta}{cos^2\theta}$$

- Q2. The sum of 3 terms in arithmetic progression is 15 and their product is 80. Find the 3 numbers.
- Q3. Find 3 numbers in Geometric progression whose sum is 26 and the product is 126.
- Q4. Find the fifth roots of unity.
- Q5. Find

a)
$$\frac{Z1}{Z2}$$
 b) $Z_1 Z_2$

Where $Z_1 = 7 + 2i \& Z_2 = 10 - 7i$

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

Farmagudi, Ponda-Goa.

B.C.A. (Semester I) Intra Semester Assessment (I.S.A.) Test-III September 2018

Environmental Studies

Duration: - 30 minutes Marks	- 15
------------------------------	------

Q1. Fill in the blank	s with the appro	priate alterna	tives given	below. (05)
-----------------------	------------------	----------------	-------------	-------------

							0	, ,				
a)				different	-	that	are	represented	in	a	given	community
	(Gene	etic diversi	ty; Sp	pecies divers	sity; Ecosy	ystem d	liversi	ty)				
b)				ul; Ruby thr				ack hooded bu	lbul)			
c)			-	' in India is.								
d)			•	yal Bengal T Sundarbans	_	dia is			•••••			
e)		-		u conservati ldlife Sanctı								

Q2. Answer any five of the following. (10)

- a) Explain "Invasive species" with two examples.
- b) Why Biodiversity needs to be protected?
- c) State any four bio-geographical regions of India.
- d) Discuss any two methods of Ex-Situ conservation.
- e) What is the importance of "Sacred Groves"?
- f) Explain any two threats to Biodiversity.
- g) Why is India called a Mega-Diverse nation?

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

B.C.A. (Semester I) Intra Semester Assessment (ISA) (test III), September 2018 BUSINESS ACCOUNTING

Duration: 45minutes Marks: 15

Q.1) You are given the following extracts of ledger balances taken from Sunshine company.ltd for the year ending 31st March 2017.Prepare a statement of Profit and loss account as per revised schedule of the companies Act. (15 Marks)

Particulars	Rs.
Opening stock of finished goods	1,90,500
Cost of material consumed	2,92,000
Leave encashment	68,000
Interest on debentures paid	16,250
Goodwill written off	18,000
Provision for taxation	30,000
Office expenses	8,250
Closing stock of finished goods	2,03,000
Discount earned	4,900
Cash sales	2,66,000
Credit sales	3,87,500
Income tax refund	11,500
Sales returns	17,000
Provision for bad debts	8,200
Delivery expenses	7,200
Printing and stationery	22,600
Factory expenses	82,000
Bonus to employees	32,000
Depreciation on Plant and Machinery	50,000

COLLEGE OF COMMERCE & ECONOMICS

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

B.C.A. (Semester 1) Intra Semester Assessment (I.S.A.) Test-III September 2018 COMPUTER ORGANISATION AND ARCHITECTURES

Duration:- 45 minutes Marks:- 15

ANSWER THE FOLLOWING:
1. What is Assembly Language? (2 mks)

2. Explain the Semiconductor Memory. (2 mks)

3. Explain the Bus Interface Unit of 8086 Architecture. (3 mks)

4. Explain the various features of RAID 2 by giving an appropriate example. (4 mks)

5. Explain the Three –Level Cache Organization with the diagram. (4 mks)
