## 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.
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?
Q.3) Find out errors ,if any, in the following code segment.
a) int $X[3,4]$
int matrix[3],[5];
Q.4) State and explain various functions used to read strings.
Q.5) Write a C program to compare two strings.

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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: ( $\mathbf{5 \times 3 = 1 5}$ Marks)

Q1. Prove that
a) $\frac{1-\cos \theta}{1+\cos \theta}=\frac{\sec \theta-1}{\sec \theta+1}$
b) $\tan ^{2} \theta=\underline{1-\cos ^{2} \theta}$

$$
\cos ^{2} \theta
$$

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 Geometricprogression whose sum is 26 and the product is 126 .
Q4. Find the fifth roots of unity.
Q5. Find
a) $\frac{Z 1}{Z 2}$
b) $Z_{1} Z_{2}$

Where $\mathrm{Z}_{1}=7+2 \mathrm{i} \& \mathrm{Z}_{2}=10-7 \mathrm{i}$
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## 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 blanks with the appropriate alternatives given below. (05)
a) The number of different species that are represented in a given community is.
(Genetic diversity; Species diversity; Ecosystem diversity)
b) State bird of Goa is
(Red whiskered bulbul; Ruby throated yellow bulbul; black hooded bulbul)
c) The "Hottest hotspot" in India is
(Indo-Burma; the Western Ghats; Eastern Himalayas)
d) The home for the Royal Bengal Tiger in India is.
(The Sahyadris; Gir; Sundarbans)
e) An example of In-Situ conservation is $\qquad$
(Zoological park; Wildlife Sanctuary; Botanical garden)

## 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?

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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 $31^{\text {st }}$ 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 | $3,66,000$ |
| Credit sales | 11,500 |
| Income tax refund | 17,000 |
| Sales returns | 8,200 |
| Provision for bad debts | 7,200 |
| Delivery expenses | 22,600 |
| Printing and stationery | 82,000 |
| Factory expenses | 32,000 |
| Bonus to employees | 50,000 |
| Depreciation on Plant and Machinery |  |

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

## Duration:- 45 minutes

Marks:- 15

ANSWER THE FOLLOWING :-

1. What is Assembly Language?
2. Explain the Semiconductor Memory.
3. Explain the Bus Interface Unit of 8086 Arehitecture.
4. Explain the various features of RAID 2 by giving an appropriate example.
5. Explain the Three-Level Cache Organization with the diagram.
