

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 I), July 2017

PROBLEM SOLVING & PROGRAMMING CONCEPT

Duration: 45minutes

Marks:15

Q.1) State true or false. (2 mks)

a) main() is where the program begins its execution.

b) Every line in a C program should End with a semicolon.

Q.2) What is an algorithm? (2 mks)

Q.3) Write an algorithm to find sum of 2 numbers. (2 mks)

Q. 4) Describe the C Program structure. (2 mks)

Q.5) Explain the process of executing a C Program. (2 mks)

Q.6) Find errors, if any, in the following program. (2 mks)

```
# Include (stdi o.h)
```

```
Void main ( )
```

```
[
```

```
Printf("Hello");
```

```
]
```

Q.7) Write a C program to swap contents of 2 variables. (3 mks)

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BUSINESS ACCOUNTING

Duration: 45minutes

Marks:15

Q. 1) Following are the transactions of “Anmol Industries Private Ltd” Bicholim Goa.
You are required to prepare a Cash book with Bank and Cash column & balance the same. Their bankers are Bank of India – Bicholim.

1/Mar/17 Cash on hand ` 70500/-

1/Mar/17 Cash at bank ` 19000/-

3/Mar/17 Cash Sales realized as per bill Nos. 1001 – 1015 ` 30000/-

4/Mar/17 Cheque No 5678910 for ` 45000/- drawn on Bank of India
issued to Malika Industries against the bill NO 2323.

5/Mar/17 Cash Sales as per bill nos 1016 – 1024 ` 57000/-

8/Mar/17 Cheque NO 5623265 for ` 75000/- drawn on SBI, received
from M/S V.V. Pankar towards full and final settlement of our
bill NO. 7891.

10/Mar/17 Petty cash expenses ` 500/- as per petty cash folio No.222.

15/Mar/17 Paid to M/S Nayar & Co. ` 55000/- vide cheque No.5678911 as
Per bill No. 1978.

Additional information:-

1) Cash book folio no. 779.

2) No vouchers are prepared incase bills are available.

(prepare any two vouchers). (10 mks)

Q. 2) On 7/7/2017 purchased goods from Mr. Vikrant worth ` 90000/-
& paid only ` 40000/-. Pass the entry. (2 mks)

Q. 3) State the rule of personal Account. (1 mk)

Q. 4) Give examples for the following:-

Expenses (Any four) (1 mk)

Tangible Assets(Any four) (1 mk)

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**B.C.A. (Semester I) Intra Semester Assessment (ISA)(test I), July 2017
COMPUTER ORGANISATION AND ARCHITECTURES**

Duration: 45minutes

Marks:15

ANSWER THE FOLLOWING:-

1. Explain Semiconductor memory. (2 mks)
2. Explain Interrupt Service Routine. (2 mks)
3. Explain the Pentium Evolution. Also, elaborate on the improvements in Chip Organization and Architecture. (3 mks)
4. Explain the Basic Computer Operations. Also, draw the block diagram of the Computer. (4 mks)
5. Explain the High Performance Architecture with the diagram. (4 mks)

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B.C.A. (Semester I) Intra Semester Assessment (ISA) (test I), July 2017

BASIC MATHEMATICS

Duration: 45 minutes

Max. marks: 15

Answer the following questions:

1. Test whether 61 is a prime number. (1)
2. Find the GCD and LCM of 54 and 24. (1)
3. State the nature of roots of equation $2x^2 - 4x + 3 = 0$ (1)
4. If matrix $A^T = \begin{pmatrix} 2 & 0 & 1 \\ -2 & 3 & 4 \\ 1 & 6 & 1 \end{pmatrix}$, then find matrix A. (1)
5. If $\begin{pmatrix} 3 & 4 \\ 6 & -1 \end{pmatrix} = x \begin{pmatrix} 5 \\ 3 & 2x \end{pmatrix}$, find the value of x. (1)
6. Use quadratic formula to find the roots of equation $3x^2 - 5x + 2 = 0$ (2)
7. Verify if $AB = BA$ for $A = \begin{pmatrix} 3 & -1 \\ 4 & 7 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & 5 \\ 2 & -10 \end{pmatrix}$ (2)
8. Find the inverse matrix of the following matrices.
i) $A = \begin{pmatrix} -8 & 12 \\ -2 & 3 \end{pmatrix}$ (4)
ii) $B = \begin{pmatrix} 5 & 3 & 8 \\ 2 & 0 & 1 \\ 1 & 2 & 3 \end{pmatrix}$
9. Salaries of Ravi and Sumit are in the ratio 2:3. If the salary of each is increased by Rs.400, the new ratio is 40:57. What is Sumit's new salary? (2)

*****THE END*****

BCA SEMESTER-I, ISA-I, JULY 2017

ENVIRONMENTAL STUDIES

Marks: 10

Duration: 45 minutes

- 1) Define Environment and state ways to conserve Environment. (2)
- 2) Differentiate between renewable and non renewable resources. (2)
- 3) Write a short note on Deforestation (2)
- 4) Give any two ways of conservation of water resources. (2)
- 5) Give reasons for World Food problem (2)