

GVM's GGPR College of Commerce & Economics

Farmagudi, Ponda – Goa

Intra Semester Assessment Test III

Semester - I

September 2016

F.Y.B.C.A.

Basic Mathematics

Marks: 15

Duration: 45 min

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- 1) Find three numbers in A.P. such that their sum is 30 and their product is 840. (3)
 - 2) Find the first term and the common ratio of the G.P. whose 2nd and 4th term is 64 and 256 respectively. (2)
 - 3) Find the centre and radius of the circle whose equation is $x^2 + y^2 - 6x + 10y + 18 = 0$. (2)
 - 4) Find the area of the triangle whose vertices are (1,2), (5,3) and (2,5). (3)
 - 5) Show that $(\tan\theta \operatorname{cosec}\theta)^2 = 1 + \tan^2\theta$. (1)
 - 6) Find the inverse of the matrix $\begin{bmatrix} 1 & 5 \\ -1 & 2 \end{bmatrix}$. (2)
 - 7) Find the determinant of the matrix $\begin{bmatrix} 1 & 0 & 8 \\ -2 & 4 & 3 \\ 8 & 7 & -6 \end{bmatrix}$. (2)

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FARMAGUDI, PONDA-GOA

INTRA SEMESTER ASSESSMENT TEST-III
SEMESTER I
SEPTEMBER 2016

F.Y.B.C.A.
COMPUTER ORGANISATION AND ARCHITECTURES

MARKS:- 15

Duration:- 45 minutes

ANSWER THE FOLLOWING :-

1. Perform the following operations. (1 mk x 2 = 2 mks)
 - i. $(+3) + (+4)$
 - ii. $(-4) + (-1)$

2. Perform the following conversions. (1.5 mk x 2 = 3 mks)
 - i. $(11001)_2 = (X)_{10}$
 - ii. $(73)_{10} = (X)_2$

3. Explain the difference between the Static RAM and the Dynamic RAM. (3 mks)

4. Explain the various features of RAID 4, by giving an appropriate example. (3 mks)

5. Explain the Three-level Cache Organization with the diagram. (4 mks)

Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College of Commerce & Economics
Ponda Goa

SEMESTER I, ISA-III SEPTEMBER 2016
BUSINESS ACCOUNTING

Marks: 15

Duration: 45 min

Q.I. Match the pairs:

(5)

- A**
- a) Revenue Expenditure
b) Authorised capital
c) Current assets
d) Purchase of machinery
e) Fixed rate of return

- B**
- i) Inventory
ii) Debenture capital
iii) Ratio analysis
iv) Nominal capital
v) Entity concept
vi) Capital expenditure
vii) Carriage outward

Q. II. From the following trial balance you are required to prepare P/L Account for the year ended 31/3/2016.

(10)

| Particulars | Amount | Particulars | Amount |
|-------------------|--------|-------------------|---------|
| Stock | 75000 | Sales | 450000 |
| Furniture | 60000 | Eq. Share capital | 1000000 |
| Advertising | 2500 | Trade payable | 25000 |
| Carriage outward | 1500 | Rent received | 12000 |
| Salaries | 55000 | Transfer fees | 2500 |
| Plant / machinery | 150000 | Discount received | 1650 |
| Wages | 28000 | 5% Debentures | 50000 |
| Purchases | 121500 | | |
| Discount | 1400 | | |
| Freight | 2200 | | |
| Insurance | 3500 | | |
| Land | 290000 | | |

Additional information:

- Closing stock 86000/-
- Depreciation on furniture @ 5% & Plant/machinery 2%.
- Charge tax on profit @ 10%.

**G.V.M's G.G.P.R. COLLEGE OF COMMERCE AND ECONOMICS
FARMAGUDI, PONDA-GOA.
INTRA SEMESTER ASSESSMENT TEST -3, September 2016**

Subject : BCA101-PROBLEM SOLVING & PROGRAMMING CONCEPTS.

Marks : 15

Semester : 1ST .

I. FILL IN THE BLANKS.

(5x1=5)

1. _____ is the collection of similar data types.
2. Union can be defines as _____.
3. _____ is the way to declare pointers.
4. _____ is the build in string function to compare two strings.
5. '\0' is to check the _____ condition.

II. Answer the following.

(2x2=4)

1. Write about a) pointers -> read and write
b) types of arrays with an appropriate example.
2. Write about types of arrays with an example.

III. Answer the following.

(2x3=6)

1. Explain Structures with an example .
2. Write any three string functions with appropriate syntax and example.

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INTRA SEMESTER ASSESSMENT TEST-III
BCA SEMESTER I SEPTEMBER 2016

ENVIRONMENTAL STUDIES

Marks: 10

Duration: 30 minutes

Answer ANY FIVE of the following:- (2 marks each)

- Q. 1) Explain the detail classification of resources.
- Q. 2) Why it is necessary to conserve resources?
- Q.3) Elaborate on the importance of human resources.
- Q. 4) What are the causes of deforestation?
- Q. 5) Write on the different Methods of forest conservation.
- Q. 6) Explain food Chain and food Web.
