

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

**B.C.A. (Semester V) Intra Semester Assessment (ISA)(test I), July 2017
SOFTWARE TESTING**

Duration: 45 minutes

Marks:15

- Q.1) Define the following terms: (2 x 2 = 4)
a) testing
b) clear box testing.
- Q. 2) Differentiate between Quality Assurance and Quality Control. (2 mks)
- Q.3) Explain the Importance of Static testing by humans. (2 mks)
- Q.4) State the principles of testing. (3 mks)
- Q. 5) Discuss any two methods of white box testing technique. (4 mks)

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OPERATIONS RESEARCH**

Duration: 45 minutes

Max. marks: 15

Answer the following questions:

1. A company is making two products A and B. The cost of producing one unit of product A and B is Rs. 60 and Rs. 80 respectively. As per the agreement, the company has to supply at least 200 units of product B to its regular customers. One unit of product A requires one machine hours where as product B has machine hours abundantly within the company. Total machine hours available for product A are 400 hours. One unit of each product A and B requires one labour hour each and total of 500 labour hours are available. The company wants to minimize the cost production by satisfying the given requirements. Formulate the problem as a linear programming problem. (3)

2. Use graphical method to solve the following linear programming problem.

$$\text{Maximize } Z = 120x_1 + 100x_2$$

$$\text{Subject to, } 10x_1 + 5x_2 \leq 80$$

$$6x_1 + 6x_2 \leq 66$$

$$4x_1 + 8x_2 \geq 24$$

$$5x_1 + 6x_2 \leq 90$$

$$\text{where } x_1, x_2 \geq 0$$

(6)

3. Solve the following linear programming problem using simplex method.

$$\text{Maximize } Z = 7x_1 + 5x_2$$

$$\text{Subject to: } -x_1 - 2x_2 \geq -6$$

$$4x_1 + 3x_2 \leq 12$$

$$\text{where } x_1, x_2 \geq 0$$

(6)

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HUMAN RESOURCE MANAGEMENT

Duration: 45 minutes

Marks:15

Q. I) Explain the following:-

- | | |
|--------------------|---------|
| 1) Human Resources | (2 mks) |
| 2) Selection | (2 mks) |
| 3) Planning | (1 mk) |

Q. II) Define Human Resource Planning.

Explain its objectives(Any four). (5 mks)

Q.III) What do you mean by Recruitment? State & Explain

(any two) Internal sources & (any two) external sources
of recruitment with their merits and demerits.

(any 2 - 2 points) (5 mks)

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ANDROID PROGRAMMING**

Duration: 45 minutes

Marks:15

ANSWER THE FOLLOWING:-

1. State the various features of Android? Also, state the API level and the version of Nougat. (2 mks)
2. Explain the importance of AVD with an appropriate example. (2 mks)
3. Explain the Anatomy of Android Application. Give an appropriate example. (3 mks)
4. Explain the procedure to create an Android App and to display the text "WELCOME TO TYBCA" on the Emulator. (4 mks)
5. Explain the application framework layer of the Android Architecture with the diagram. (4 mks)

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WEB TECHNOLOGY

Duration: 45 minutes

Marks:15

Q1. Write HTML structure? (2 mks)

Q2. Write a Code to design a table structure ? (4 mks)

Students	Marks			total
	Sub1	Sub2	Sub3	
Student1	50	50	60	160
Student2	40	70	50	160
Student 3	70	80	70	220
Student 4	90	90	90	270

Q3. List the type of css and explain which is best ? (2 mks)

Q4. Write the type of list and write syntax for it? (3 mks)

Q5. Differentiate between Get and Post method? (3 mks)

Q6. Full form of PHP _____ (1 mk)
