

G.V.M'S G.G.P.R. COLLEGE OF COMMERCE & ECONOMICS
FARMAGUDI, PONDA
INTRA SEMESTER ASSESSMENT TEST-I
BCA SEMESTER V AUGUST 2016
OPERATION RESEARCH

Marks: 15

Duration: 45 minutes

Q. 1) A company sells two different products A & B making a Profit of ` 40/- & 30/- Per unit respectively. They are both produced with the help of a common production process and are sold in two different markets. The production process has a total capacity of 3000 man-hours. It takes 3 hours to produce a unit of A and one hour to produce a unit of B. The market has been surveyed and the company officials feel that the maximum number of units of A that can be sold is 800 units and that of B is 1200 units.

- i) Formulate this problem as an LP model to maximize the profit. (2 mks)
ii) Solve the above LP problem using graphical method. (5 mks)

Q. 2) a) Solve the following LPP using simplex method.

$$\begin{aligned} \max z &= 7x_1 + 5x_2 \\ \text{S.t. } x_1 + 2x_2 &\leq 6 \\ 4x_1 + 3x_2 &\leq 12; x_1, x_2 \geq 0. \end{aligned} \quad (5 \text{ mks})$$

OR

b) Solve the following LPP using artificial variable technique.

$$\begin{aligned} \max z &= 3x_1 - x_2 \\ \text{S.t. } 2x_1 + x_2 &\geq 2 \\ x_1 + 3x_2 &\leq 2; x_1, x_2 \geq 0. \end{aligned} \quad (5 \text{ mks})$$

Q. 3) Obtain the dual of the following LPP

$$\begin{aligned} \min z &= x_1 + 2x_2 + 5x_3 \\ \text{S.t. } x_1 + x_2 &\geq 2 \\ 2x_1 + x_2 + 6x_3 &\leq 6 \\ x_1, x_2, x_3 &\geq 0. \end{aligned} \quad (3 \text{ mks})$$

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INTRA SEMESTER ASSESSMENT TEST-I
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HUMAN RESOURCE MANAGEMENT

Marks: 15

Duration: 45 minutes

Q.I. Define the following : (2x2)

- a) Human resource planning.
- b) Recruitment.
- c) Job analysis

Q.II. Answer the following. (any three) (3x3)

- 1) "Human resource planning is a pre-requisite for effective management of human resources." In the light of this statement, analyse the significance of human resource planning.
- 2) Explain internal sources of recruitment.
- 3) Distinguish between job enlargement and job enrichment.
- 4) Define human resource management and explain its features.

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INTRA SEMESTER ASSESSMENT TEST-I
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SOFTWARE TESTING

Marks: 15

Duration: 45 minutes

ALL QUESTIONS ARE CUMPULSORY.

Q.1 Answer the following.

- 1) What is Software Testing? (1 mark)
- 2) Define SDLC. (1 mark)
- 3) What is White Box Testing? List its types. (1 mark)

Q.2) Answer the following.

- 1) Define Quality Control and Quality Assurance. List its differences. (2 marks)
- 2) What are the principles of Software Testing? (2 marks)
- 3) Explain Desk Checking. (2 marks)
- 4) Differentiate between verification and validation. (2 marks)

Q.3) Answer the following.

- 1) List and explain the different phases of SDLC. (4 marks)

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INTRA SEMESTER ASSESSMENT TEST-I
SEMESTER V
AUGUST 2016

T.Y.B.C.A.
ANDROID PROGRAMMING

MARKS:- 15

Duration:- 45 minutes

ANSWER THE FOLLOWING :-

1. What is an API level in Android? State the API level and the version of Lollipop and Marshmallow. (2 mks)
2. What is the importance of AVD? Give an appropriate example. (2 mks)
3. Explain the various great features supported by Android. Elaborate on the use of Google Cloud Messaging. (3 mks)
4. Explain the Libraries and runtime layer of the Android Architecture with the diagram. (4 mks)
5. Explain the various steps involved to display the text "WELCOME TO GOOGLE ANDROID" on the Emulator. (4 mks)

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INTRA SEMESTER ASSESSMENT TEST-I
BCA SEMESTER V AUGUST 2016
WEB TECHNOLOGY

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Marks: 15

Duration: 45 minutes

I. State true or False

(5x1=5)

1. Each style uses the same basic procedure for identifying sources in the body of your page.
2. The purpose for attributing is to let the reader know much work you did in preparing your web page.
3. It does not really matter where you place your attribution in the body of your page, as long as it is within the same paragraph as the use of the original source.
4. In every style manual citations are found on a separate page at the end of the body of the page.
5. Attributes are the building blocks of an html document.

II. Answer the following.

(2x2=4)

1. Categorize the types of html elements in detail.
2. Explain the concept of Tiers in detail.

III. Answer the following.

(2x3=6)

1. Explain the following terms....a) DNS b) www c) http d) url e) ftp f) html.
2. State what is ...a) web server and its types b) web browser and its types.
