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**BCA SEM VI**

**21-22**

**Question Papers**



Roll No:

Total no. of Questions: 06

Total No: of pages: 02

**B.C.A (Semester-VI) Examination**  
**E-COMMERCE APPLICATIONS(CAC-121)**

Duration: 2 hours

Maximum Marks: 60

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.

**1. Answer the following:**

**A. Match the following:**

[5 x 1 Marks]

- |   |  |
|---|--|
| 1. 1 <sup>st</sup> Generation of e-commerce | a. B2B & C2C   |
| 2. 2 <sup>nd</sup> Generation               | b. Facilitate the search for the required product or service |
| 3. 3 <sup>rd</sup> Generation               | c. Online malls and web stores                               |
| 4. 4 <sup>th</sup> Generation               | d. B2C e-commerce  |
| 5. Electronic Markets                       | e. B2B2C2C   |

**B. Expand the following acronyms:**

[5 x 1 Marks]

1. EDIFACT
2. EDICON
3. EDIFICE
4. ANSI
5. PSTN

**2. Answer the following:**

- a. Define E-Commerce. [2 Marks]
- b. List the advantages of e-mails as alternative methods of Communication. [3 Marks]
- c. What are the threats to email security? [5 Marks]

**3. Answer the following:**

- a. Define online marketing and advertising.
- b. List the Key Aspects of SMM Strategy.
- c. Write a note on Types of Content Marketing.

[2 Marks]

[3 Marks]

[5 Marks]

**4. Answer the following:**

- a. What is meant by web analytics?
- b. List 6 Applications of e-commerce to SCM.
- c. Diagrammatically describe the supply chain activity.

[2 Marks]

[3 Marks]

[5 Marks]

**5. Answer the following:**

- a. What is Cost Estimation and Pricing?
- b. List the features of Electronic Data Interchange.
- c. Write a note on Design principles of E-commerce cataloging.

[2 Marks]

[3 Marks]

[5 Marks]

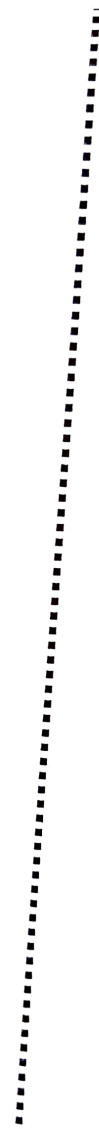
**6. Answer the following:**

- a. What is Electronic Fund Transfer?
- b. List advantages and disadvantages of electronic payments.
- c. List the advantages and disadvantages of VAN's.

[2 Marks]

[3 Marks]

[5 Marks]



Roll No.:

Total No. of questions: 06

Total No. of pages: 02

**RCA Semester End Examination**

CAC-120: Multimedia Technology

Semester VI

CBCS

**Hours: 02hrs**

**Instructions:**

- 1) All questions are compulsory
- 2) Figures to the right indicate full marks

**Max. Marks: 60**

**I. A) Answer the following:**

**(5x1=5)**

- a. Define quantization.
- b. State a point of difference between linear and non-linear multimedia.
- c. What is an audio file format?
- d. What is manipulating a graphic image?
- e. Define sample rate?

**B) Fill in the blanks:**

**(5x1=5)**

- a. \_\_\_\_\_ is the "weaving" part of the multimedia definition, where source documents such as montages, graphics, video cuts, and sound merge into a final presentation.
- b. Sound pressure levels are measured in \_\_\_\_\_.
- c. \_\_\_\_\_ are mathematical tables that define the color of a pixel displayed on the screen.
- d. \_\_\_\_\_ is an extension of multimedia and it uses the basic multimedia elements of imagery, sound and animation.
- e. \_\_\_\_\_ is a communication standard developed in the early 1980's for electronic musical instruments and computers.

2. Answer the following:

- A) According to a graphic designing principle, it is important to place the content in the proper space and time. Justify. 10
- B) Give the advantages and disadvantages of vector graphics. 2
- C) State and explain any 5 graphic formats. 3

3. Answer the following:

- A) Citing example, explain what is additive color model. 10
- B) For any graphical scheme, it is mandatory to plan your approach, organise your tools, and configure your computer workspace. Justify the statement. 2
- C) Explain in detail the elements of multimedia. 3

4. Answer the following:

- A) Calculate the audio data size for a 50 second, 8-bit, 42.5 kHz stereo music. 10
- B) List and explain the characteristics of digital sound. 2
- C) Provide detailed explanation about audio streaming. 3

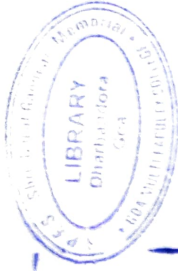
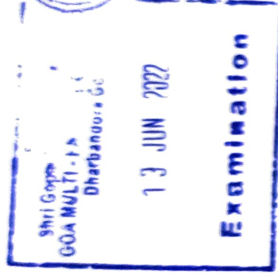
5. Answer the following:

- A) State how sound waves work. 10
- B) Elaborate 3-D drawing and rendering. 2
- C) Define VFX. Explain in detail the different categories of Visual effects. 3

6. Answer the following:

- A) What is reverberation and flanging effect of audio. 5
- B) Briefly explain compression and its two types. 10
- C) Explain in detail codec in video. 2

-----ALL THE BEST-----



Roll No:

Total No. of Questions: 06

Total No. of pages: 02

B.C.A. SEMESTER END EXAMINATION, JUNE 2022

CLOUD COMPUTING (CAD-111)

SEMESTER VI

Duration: 2 hours

Total Marks: 60

Instructions: i) All questions are compulsory.

ii) Figures to the right indicate full marks.

**Q.1.A. Fill in the blanks with appropriate word(s):**

(5x1=05)

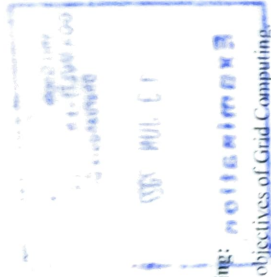
1. \_\_\_\_\_ controls and coordinates the use of the hardware among various application programs and the users.
2. \_\_\_\_\_ is the 'delivery of computing services over the internet, enabling faster innovation, flexible resources and economies of scale.
3. \_\_\_\_\_ provides networking components such as routers, switches, and bridges as a service.
4. \_\_\_\_\_ provides environment for building, testing, and deploying software applications, without focusing on managing underlying infrastructure.
5. \_\_\_\_\_ applies the resources of numerous computers in a network to work on a single problem at the same time.

**Q.1.B. Mention the full form of the following:**

(5x1=05)

1. EC2
2. CSP
3. IPv4
4. SaaS
5. VMM

P.T.O



**Q.2. Answer the following:**

- A. Mention any two objectives of Grid Computing. (02)
- B. Differentiate between LAN and WAN. (03)
- C. What is Hypervisor? Explain briefly the types of hypervisors. (05)

**Q.3. Answer the following:**

- A. State the types of virtualization. (02)
- B. Briefly explain the types of Process Affinity. (03)
- C. Explain any five guiding principles of SOA. (05)

**Q.4. Answer the following:**

- A. Explain the term 'Distributed Shared Memory' (02)
- B. State any three advantages of cluster computing. (03)
- C. Explain the working of Virtual machine. (05)

**Q.5. Answer the following:**

- A. Mention the error, if any, in the following IPv4 addresses. (02)
  - a. 111.56.016.78
  - b. 221.34.70.8.20
- B. Explain the three major components of the virtualized environment. (03)
- C. Explain any five real-time cloud applications. (05)

**Q.6. Answer the following:**

- A. Explain the term 'Machine image' and mention its use. (02)
  - B. Differentiate between Point-to-point and Multi-point type of connections. (03)
  - C. State and explain the benefits of using VM. (05)
-



Total no. of Questions: 06

B.C.A (Semester-VI) Examination

DATA SCIENCE CONCEPTS (CAD-110)

Duration: 2 hours

Maximum Marks: 60

Total No: of pages: 02

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.

1. Answer the following:

A. Match the following:

[5 x 1 Marks]

1. Bagging
2. Boosting
3. Gradient boosting
4. Loss function
5. Random forest

- a. Additive model
- b. Train-test split
- c. Gradient Boosting Machine
- d. Output from weak learners
- e. Random Forest algorithm

B. Define the following:

[5 x 1 Marks]

1. Data science
2. Data analysis
3. Data cleaning
4. ANN
5. Dependent variable

2. Answer the following:

- a. Name 4 careers in data science [2 Marks]
- b. Compare supervised and unsupervised machine learning. [3 Marks]
- c. Compare feature selection and dimensionality reduction. [5 Marks]

3. Answer the following:

- a. List the techniques of feature selection. [2 Marks]
- b. List the steps in K-NN Algorithm. [3 Marks]



[5 Marks]

- c. Compare inferential and descriptive statistics.

**4. Answer the following:**

- a. What is logistic regression?
- b. List three assumptions in linear regression.
- c. Write a note on Naïve-Bayes Classifier Algorithm.

[2 Marks]

[3 Marks]

[5 Marks]

**5. Answer the following:**

- a. List four applications of Naïve-Bayes Classifier Algorithm.
- b. List strengths and weaknesses of decision trees.
- c. Write a note on regression.

[2 Marks]

[3 Marks]

[5 Marks]

**6. Answer the following:**

- a. Name the two main types of decision trees.
- b. List the steps involved in Random Forest Algorithm.
- c. List the steps in SLR model development.

[2 Marks]

[3 Marks]

[5 Marks]

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**BCA Semester End Examination 2022**

CAC-120: Multimedia Technology

Semester VI

CBCS



**Hours: 02hrs**

**Max. Marks: 60**

**Instructions:**

- 1) All questions are compulsory
- 2) Figures to the right indicate full marks

**1. A) Answer the following:**

**(5x1=5)**

- a. Define VFX.
- b. State why GIF is not suited for photographic images.
- c. What are frames in video technology?
- d. Define interactive multimedia?
- e. What is a container format in video media?

**B) Fill in the blanks:**

**(5x1=5)**

- a. \_\_\_\_\_ is any combination of text, art, sound, animation and video delivered to you by the computer.
- b. VGA stands for \_\_\_\_\_.
- c. \_\_\_\_\_ is a structure of linked elements through which the user can navigate.
- d. \_\_\_\_\_ is the frequency of a light wave within the narrow band of the electromagnetic spectrum to which the human eye responds.
- e. \_\_\_\_\_ type of effect refers to elements created by making use of a computer which can also include 3-D objects.

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10

2. Answer the following:

- Justify
- A) Multimedia is shifting from being localized to being distributed. 2
- B) Briefly explain the PNG file format. Also, state why TIFF is not well suited for web pages? 3
- C) List and explain in detail the three distinct colour models of colour used in multimedia. 5

10

3. Answer the following:

- A) Citing example, explain what is subtractive colour model. 2
- B) Calculate the size of 16-bit stereo audio of 2 minutes with sampling rate 44.1 kHz. 3
- C) Explain the application of multimedia in the field of education and entertainment using suitable examples. 5

10

4. Answer the following:

- A) State the Nyquist Sampling Theorem. 2
- B) Differentiate between vector and raster graphics. 3
- C) Explain in detail the concept of digital audio. 5

10

5. Answer the following:

- A) Define meta graphics. Give examples. 2
- B) State the advantages of AVI. 3
- C) Explain the concepts of compression and its types in context of audio media. 5

10

6. Answer the following:

- A) Explain in brief the process of converting analog signal to digital. 2
- B) Define graphic media. In what way have the movies with big budgets and tight scheduled driven computer graphics. 3
- C) Define codec. Discuss interframe and intraframe compression. 5

ALL THE BEST

Roll No:

Total No. of Questions: 06

**B. Com Semester End Examination**

International Economics – CCI 18

Semester No: VI

CBCS Ordinance

Duration: 02 Hrs.

**Instructions:**

- 1 All questions are compulsory
2. Answer sub- questions in question 1 and 2 in not more than 100 words each.
- 3 Answer questions 3 to 6 in not more than 400 words
4. Figures to the right indicate maximum marks to the question

**Q.1 Answer any four of the following**

**(4X4=16 Marks)**

- a) What are the advantages of international trade?
- b) Write a brief note on terms of trade.
- c) Write a brief note on anti-dumping levies.
- d) Explain in brief on countervailing duties.
- e) Explain sub components of current account in balance of payments.
- f) What is currency devaluation and revaluation?

**Q.2 Answer any four of the following**

**(4X4=16 Marks)**

- a) What is disequilibrium in balance of payment?
- b) Explain different types of foreign exchange transactions.
- c) What is managed floating exchange rate system?
- d) Explain hedging and exchange rate risk management.
- e) Explain four determinants of Foreign direct Investment.
- f) Write a brief note on foreign portfolio Investment.

**Q.3 A)** Describe product life cycle theory of international trade.

**(12 Marks)**

**OR**

**Q.3 B)** Explain the salient features of international trade.

**Q.4 A)** Explain different classifications of tariff barriers.

**(12 Marks)**

**OR**

**Q.4 B)** Explain different types disequilibrium in BoP.

**Q.5 A)** Examine the factors influencing short-term exchange rates

**(12 Marks)**

**OR**

**Q.5 B)** Briefly explain the following concepts of Foreign Exchange Rates.

- i) Currency depreciation and appreciation.
- ii) Concept of PPP dollar.

**Q.6 A)** Examine the various determinants of Foreign Portfolio Investment **(12 Marks)**

**OR**

**Q.6 B)** Explain several entry modes adopted by MNC in International business.

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Maximum Marks: 80

Roll No: \_\_\_\_\_

Total no. of Questions: 06

**B.C.A (Semester-VI) Examination**  
**E-COMMERCE APPLICATIONS(CAC-121)**

Duration: 2 hours

Maximum Marks: 60

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.

**1. Answer the following:**

**A. Match the following:**

- |                 |  |
|-----------------|--|
| 1. Privacy      | [5 x 1 Marks]  |
| 2. Integrity    | a. Knowing who sent the information                  |
| 3. Authenticity | b. Keeping your information private                  |
| 4. SPAM         | c. Knowing that the information has not been changed |
| 5. VIRUS        | d. Self-replicating, malicious codes                 |
|                 | e. Junk mail   |

**B. Fill in the blanks:**

- [5 x 1 Marks]
1. \_\_\_\_\_ is the display of a page of ads before the requested content.
  2. \_\_\_\_\_ is an ad which moves across the user's screen or floats above the content.
  3. \_\_\_\_\_ is an ad which changes size and which may alter the contents of the webpage.
  4. \_\_\_\_\_ is a method by which a large ad will be downloaded in smaller pieces to minimise the disruption of the content being viewed.
  5. \_\_\_\_\_ is an ad which changes the background of the page being viewed
- 2. Answer the following:**
- a. List any four Advantages of E-commerce Websites. [2 Marks]
  - b. Describe the steps in e-commerce. [3 Marks]
  - c. Write a note on applications of m-commerce. [5 Marks]



**3. Answer the following:**

- a. What is Customer relationship management (CRM)?
- b. Compare push and pull strategies.
- c. Write a note on Web Advertisements.

[2 Marks]

[3 Marks]

[5 Marks]

**4. Answer the following:**

- a. What is meant by web counter?
- b. Explain 3 Applications of CRM to E-commerce.
- c. Diagrammatically describe Order Management Cycle (OMC).

[2 Marks]

[3 Marks]

[5 Marks]

**5. Answer the following:**

- a. Define Product and service digitization.
- b. List the Advantages of Remote Servicing.
- c. Write a note on B2B business models.

[2 Marks]

[3 Marks]

[5 Marks]

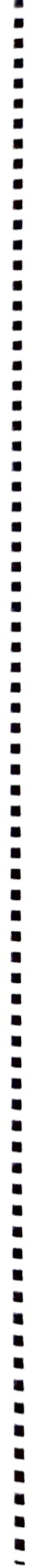
**6. Answer the following:**

- a. Define cataloguing.
- b. Diagrammatically represent Types of Value-Added Networks.
- c. Elaborate upon Credit Card Payment Process.

[2 Marks]

[3 Marks]

[5 Marks]



## B.Com Semester End Examination

### CC 17 : Human Resource Management

Semester: VI

Duration: 2 Hrs.

Maximum Marks: 80

#### Questions:

*Answer All the Questions.*

*The marks are indicated at the right side of the corresponding question.*

*Section I Consists of questions carrying four marks each.*

*Sec II consists internal choices*

*Please read the question paper carefully and in case of any discrepancy, ask to replace it within 15 mins of the commencement of the examination.*

#### SECTION I

**Answer any four questions.**

**(4×4=16)**

- Distinguish between Recruitment & Selection.
- Write explanatory note on Job Analysis.
- Explain the concept of Job Enrichment as a method of employee empowerment.
- Discuss the concept of Workers' Participation in Management.
- Distinguish between Group Incentive Plans and Individual Incentive Plans.
- Throw some light on problems of Labour Unions in India.

**Write Short Notes on the following. (Any four)**

**(4×4=16)**

- Career Planning in HRM
- Job Specification
- Profit Sharing Scheme
- Taylor's Differential Piece Rate System
- HR Outsourcing
- Intramural & Extramural Facilities in Labour Welfare



*Signature*  
*12.11.22*

SECTION II

3. (A) Define Human Resource Planning. Explain the importance of having HRP policies in an organization.

OR

(X) What are the various factors responsible for job design? Explain in brief. (12 Marks)

4. (A) What is selection? What are the various selection tests available to select a potential candidate? Explain in brief (Hint: The criterion of Selection)

OR

(X) Explain the Features, Advantages and Disadvantages of Time wage as well as Piece wage rate system. (12 Marks)

5. (A) DO you think participative form of Management is the best way? In this light, comment on the various methods of encouraging workers' participation in management.

OR

(X) Define Employee Empowerment. What are the advantages of giving autonomy to the employees? Discuss the forms of empowerment in brief. (12 Marks)

6. (A) What do you mean by Labour Welfare? Discuss some statutory and non-statutory welfare programmes specific for labour community in India.

OR

(X) What is a Trade Union? What are its various functions and objectives? Explain in brief.(12 Marks)

