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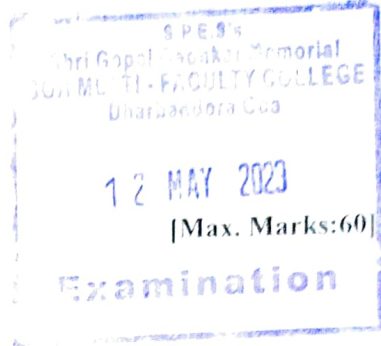
B.C.A SEM VI

22-23

Question Papers

Total No. of Printed Pages:02

B.C.A. (Semester – VI)
EXAMINATION MAY - 2023
CLOUD COMPUTING



[Time:2 Hours]

- Instructions:** i) All questions are compulsory.
ii) Figures to the right indicate full marks.

Q1 A. Match the following cloud computing services with their corresponding (5×1=5) descriptions:

Cloud service	Description
a. IaaS	i. A general category of cloud computing and remote access services
b. PaaS	ii Used to build dynamically scalable computing system
c. SaaS	iii A category of cloud service where the service provider offers customers the ability to manage and deploy containerized applications and cluster.
d. CaaS	Iv Scalable programming platform for developing applications.
e. XaaS	v For end users who want to benefit from the elastic scalability of the cloud without doing any software development installations configuration and maintenance.

B) Answer the following:

(5×1=5)

- Explain distributing processing.
- What is a bare-metal hypervisor?
- In case of which cloud deployment model is the provider in control of the infrastructure, and eventually, of the customer's core logic and sensitive data?
- What is an API? Explain.
- State a difference between Web 2.0 and Web 1.0.

- Q2**
- Describe AWS and Salesforce.com with respect to cloud computing platforms. 2
 - Explain any 3 types of clusters in cluster computing. 3
 - Briefly summarize the challenges still open in the cloud computing. 5

- | | | |
|-----------|--|---|
| Q3 | A. Explain the features – increased security and aggregation of the virtualization technology. | 2 |
| | B. Describe the private, public and hybrid deployment models of the cloud. | 3 |
| | C. What is a Web Service? State any 4 reasons why web services are used for Service Oriented Architecture. | 5 |
| Q4 | A. Describe symmetric and asymmetric multiprocessing. | 2 |
| | B. With respect to virtualization, explain the following terms: guest, host and virtualization layer. | 3 |
| | C. Name any one IaaS provider. Describe any 4 issues with IaaS. | 5 |
| Q5 | A. Briefly explain the types of connections in a computer network. | 2 |
| | B. Describe some scenarios in which Virtual Machines can be used. | 3 |
| | C. What are the services included with PaaS? State and describe any 5 such services. | 5 |
| Q6 | A. Briefly explain Microsoft Azure. | 2 |
| | B. What are some benefits of Infrastructure-as-a-Service? State any 3. | 3 |
| | C. Discuss LAN, MAN and WAN with respect to networking. | 5 |

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B.C.A. Semester VI
EXAMINATION APRIL 2023
E-Commerce Applications

[Time:2 Hours]

[Max. Marks:60]

- Instructions:** i) *All questions are compulsory.*
ii) *Figures to the right indicate full marks.*

Q1 Answer the following: (5×1=5)

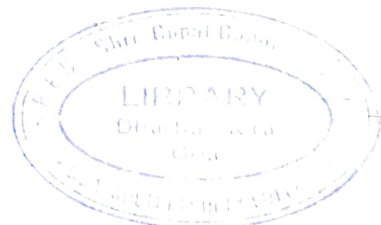
A. Match the following:

- | | |
|-------------------------|--|
| 1. Phishing | A. Self – fulfilment or in-house fulfilment |
| 2. Spam | B. Process of removal of business layers responsible for intermediary functions |
| 3. Spoofing | C. Junk mail |
| 4. Disintermediation | D. Pretends to be a trusted individual |
| 5. Merchant Fulfillment | E. Fooling recipient thinking email coming from someone other than apparent sender |

B. State whether following statements are **true** or **false** (5×1=5)

1. The C2C model of e-commerce is a model in which a consumer sells products and/or services directly to another consumer.
2. B2G increases the cost of transactions with reference to licenses
3. B2G is also referred to as public sector marketing
4. E-commerce uses a public key that is not secure
5. Indirect cost means, cost incurred by the organization such as utilities and quality control.

- Q2** A. List any four applications of E-commerce. (2 marks)
- B. What is content marketing? why it is important? (3 marks)
- C. Explain the operational, credit and legal risk of e-payments. (5 marks)



- Q3** A. Explain Web counters. (2 marks)
B. Write a short note on order receipt and accounting. (3 marks)
C. Explain product and service digitization. (5 marks)
- Q4** A. Explain any two Website design principles. (2 marks)
B. List and discuss different types of catalogs. (3 marks)
C. Explain steps involved in search engine marketing. (5 marks)
- Q5** A. Write short note on Web analytics. (2 marks)
B. Write short note on EDI and paperless trading. (3 marks)
C. Define Encryption. Discuss SSL, SET, S-HTTP security protocols. (5 marks)
- Q6** A. Explain concept of Public key Infrastructure. (2 marks)
B. Write short note on firewalls. (3 marks)
C. State advantages and disadvantages of value-added network. (5 marks)

Total No. of Printed Pages: 2

BCA (Semester – VI)
EXAMINATION MAY - 2023
Data Science Concepts

[Time:2 Hours]

[Max. Marks:60]

- Instructions:** i) Question 1-6 are compulsory
ii) Figures to the right indicate full marks.

Q1 A. Match the following: 5*1=5

Column A

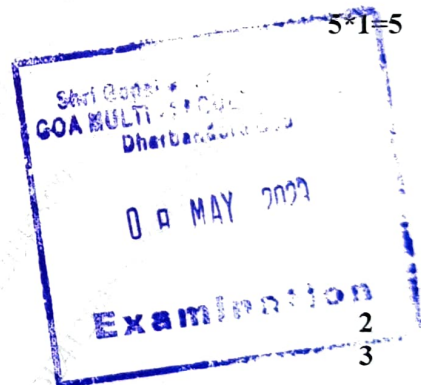
- i. Association rule mining
- ii. Forward selection
- iii. Strong learners
- iv. Prescriptive ML System
- v. Naïve bayes Algorithm

Column B

- a. Wrapper method
- b. Uses data to make suggestions
- c. Assume all feature are independent and unrelated
- d. Aprori Algorithm
- e. High prediction accuracy

- B) Answer the following
- i. What is Dimensionality Reduction?
 - ii. What is Market Basket Analysis?
 - iii) What is Data Science?
 - iv. What is Data Analysis?
 - v. What is Classification?

5*1=5



Q2 A. List any 2 applications of Clustering. 2
B. State any 3 features of machine learning. 3
C. Explain the K-Nearest Neighbour algorithm. 5

Q3 A. Give any two examples of data visualization. 2
B. Explain the terms Support and Confidence using the dataset given below. 3

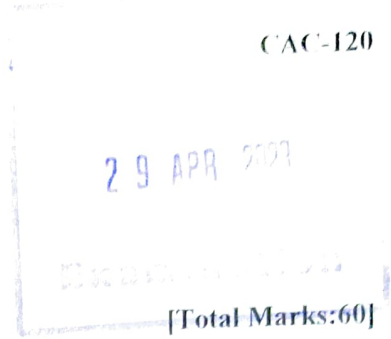
- Customer 1: Apples, Oranges, Grapes
- Customer 2: Oranges, Apples, Gum
- Customer 3: Oranges, Bananas, Grapes
- Customer 4: Gum, Bananas, Bread
- Customer 5: Apples, Oranges, Bread

- C. Explain Artificial Neural Network. 5
- Q4 A. Give 2 points of difference between Descriptive Statistics and Inferential Statistics. 2
- B. List any 3 disadvantages of Decision Trees. 3
- C. Give 5 points of difference between K-Means and K-Medoid clustering algorithm. 5
- Q5 A. List any 2 steps involved in data cleaning process. 2
- B. State the 3 categories of Logistic Regression. 3
- C. Give 5 points of difference between Supervised Learning and Unsupervised Learning. 5
- Q6 A. How is the final output calculated in Random Forest Algorithm? 2
- B. Define Feature Selection and list any 2 advantages. 3
- C. Explain the Ensemble Learning Techniques used in Machine Learning. 5



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T.Y.B.C.A. (Semester – VI)
EXAMINATION APRIL 2023
CORE COURSE
Multimedia Technology



[Duration: 2 Hours]

- Instructions:** i) All questions are compulsory.
ii) Figures to the right indicate full marks.

Q.1. A. Match the Columns.

(5×1=05)

- | A | B |
|---------------|------------------|
| i. Audio CD | a. Non-linear |
| ii. VFX | b. Interactive |
| iii. Magazine | c. 44.1 KHz |
| iv. Web media | d. Yellow Pages |
| v. Directory | e. Autodesk Maya |
| | f. Longevity |

B. Define the following.

(5×1=05)

- i) Pre-production.
- ii) Web-based multimedia.
- iii) Hypermedia.
- iv) Storyboard.
- v) Print media.

Q.2. A. What are 2 Dimensional shapes?

(02)

B. State 3 points of difference between Raster and Vector Graphics.

(03)

C. Explain the 5 elements of Multimedia.

(05)

Q.3. A. Define colour correction.

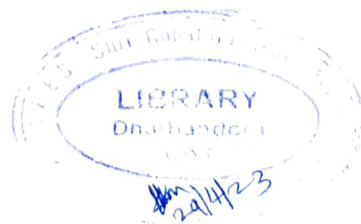
(02)

B. List and explain any 2 audio effects.

(03)

C. Write a note on JPEG file format.

(05)



- Q.4. A. Write a point of difference between DPI and PPI. (02)
B. List and explain any 3 principles of video editing. (03)
C. Write a note on .aiff file format. (05)
- Q.5. A. Define Grayscale image. (02)
B. State 3 points of difference between Lossy and Lossless video compression. (03)
C. Explain Graphics Manipulation Effects. (05)
- Q.6. A. List any 2 advantages of newspaper. (02)
B. List and explain the 3 characteristics of digital audio. (03)
C. Write a note on AVI video file format. (05)