PGIIIS-024-A-22

M.Sc III Semester (CBCS) Degree Examination

COMPUTER SCIENCE

Data Science

Paper : SCT3.1

(New Syllabus)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidates:

   i)   **Section A is Compulsory.**

   ii)   **Answer any FIVE questions from Section B.**

SECTION - A

1.   **Answer the following questions.**   (10×2=20)

   a)   List out Data Pre-processing steps.

   b)   What is data warehouse metadata ?

   c)   List the characteristics of a data ware house.

   d)   What is meant by Mining Multilevel Association Rules?

   e)   What is frequent item set?

   f)   What is decision tree pruning?

   g)   Define Data Classification.

   h)   List out different classification Techniques.

   i)   What is clustering?

   j)   State the categories of clustering methods.

SECTION - B

2. a) Discuss in detail about evolution of data mining. (6)

   b) What is KDD process? Explain. (6)

3. a) Discuss in detail about data cleaning steps in data mining. (6)

   b) Write and explain the major issues in data mining. (6)

4. a) Explain constraint -based association mining. (6)

   b) Demonstrate the use of following frequent item set terminologies by taking the example of market basket analysis.
      i) Support
      ii) Confidence
      iii) Transactions
      iv) Frequent item sets. (6)

5. a) Explain mining multidimensional data from transactional databases and relational databases. (6)

   b) Briefly discuss application of pattern mining. (6)

6. a) Define Decision tree in data mining. Write an algorithm for decision tree in classification. (6)

   b) Explain the Naive Bayesian classification algorithm. (6)

7. a) Explain clustering with K-means algorithm. (6)

   b) Explain different data types used in clustering. (6)

8. Write notes on any **two** of the following (2×6=12)

   a) Data warehouse.

   b) Association Rule mining

   c) Classification Accuracy.

   d) Data Mining trends.

_____

PGIIIS-022-A-22

M.Sc. III Semester Degree Examination

COMPUTER SCIENCE

Advanced Java

Paper : HCT - 3.1

(New CBCS Syllabus)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidate

   i)   Section A is compulsory.

   ii)   Answer any FIVE questions from Section B.

SECTION - A

(10×2=20)

1.   a)   What is method overloading?

     b)   Define Applet Life cycle?

     c)   Why exceptions classes are used?

     d)   Briefly explain final class.

     e)   How to create your own exception?

     f)   Write a Java program to reverse a given string.

     g)   List the AWT events.

     h)   Define Class.

     i)   What is the use of Runnable interface.

     j)   What is Swing classes?

SECTION - B

2. a) Explain the steps involved to connect Java application and database. (6)

    b) Explain How to create class in heritance in Java. (6)

3. a) Create a JAVA applet for drawing different shapes based on user selection. (6)

    b) Explain the different networking classes and Interfaces. (6)

4. a) Briefly explain the following terms:

    i)   Interface

    ii) Thread

    iii) Synchronization. (6)

    b) Explain the different stream classes for reading and writing data from console. (6)

5. a) Write a windows based program using AWT Controls for multiplication of two numbers. (6)

    b) Illustrate Java threading concept with suitable example. (6)

6. a) Write a swing program to calculate the square and square root. (6)

    b) What is interface? How Java Supports Multiple Inheritance. (6)

7. a) Explain Text fields, Buttons combo Boxes classes with example. (6)

    b) Write a Java program to which creates a list containing at least 3 countries. On the click of any country, the capital of that country should be displayed in a Text field. (6)

8. Write a short notes on any **TWO** of the following. (2×6=12)

    a) Multi Level hierarchy

    b) Java Security

    c) Icons and Labels.

    d) Lookup Services.

_____

PGIIIS-027-A-22

M.Sc III Semester (CBCS) Degree Examination

COMPUTER SCIENCE

Information Security and Cyber laws

Paper : OET - 3.2

(New Syllabus)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidate

i)   Section A is Compulsory.

ii)   Answer any Five questions from Section B.

SECTION - A

Answer the following questions.   (10×2=20)

1.   a)   What is vulnerability?

      b)   Define data security.

      c)   List any four common cyber crimes

      d)   What is session hijacking?

      e)   What is spoofing?

      f)   How to prevent malware?

      g)   What is transposition cipher?

      h)   Define cyber forensics.

      i)   What is cyber law?

      j)   What are types of digital signature?

SECTION - B

2.   a)   Briefly discuss internal and exeranl threats in information security.   (6)

      b)   Why is Data Security important ? Explain main elements of Data Security.   (6)

3. a) What are the types of cybercrimes? Explain how to file a cybercrime complaint? How to use cybercrim. Gove. In? (6)

   b) List the Common Phishing Attacks. How to Protect Against them? (6)

4. a) Explain any two methods of Session Hijacking. (6)

   b) Briefly discuss effects of cyber warfare. (6)

5. a) Explain any two password-cracking techniques used by the hackers. (6)

   b) What is Computer forensics? Explain the importance of Computer Forensics. (6)

6. a) Explain Classification of Ciphers based on the types of operations (6)

   b) Discuss any two types of intrusion detection systems. (6)

7. a) Explain the features of IT Amendment Act 2008. (6)

   b) What is Digital Signature? Explain how Digital Signature works (6)

8. Write notes on any **two** the following (2×6=12)

   a) Digital Crime

   b) Authentication and Access control.

   c) Firewalls

   d) Section 66 A

_____

PGIIIS-026-A-22

M.Sc III Semester (CBCS) Degree Examination

COMPUTER SCIENCE

E-Commerce

Paper : OET - 3.1

(New Syllabus)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidates:

    i)   Section A is Compulsory.

    ii)   Answer any Five questions from Section B.

SECTION - A

1.   Answer the following questions.   (10×2=20)

    a)   Write the evolution of e-commerce.

    b)   What do you mean by WWW?

    c)   Define M-Commerce.

    d)   Give the significance of DNS.

    e)   Define Router.

    f)   Write the advantages of HTML.

    g)   What do you mean by UML?

    h)   Describe ACH.

    i)   Give the characteristics of VAN.

    j)   What do you mean by CERC?

SECTION - B

2.   a)   Mention the differences between traditional commerce and E-commerce.   (6)

       b)   What are the advantages and disadvantages of E-commerce?   (6)

3. a) What is Netscape navigator? Give the features of Netscape navigator.   (6)

    b) Visit the amazon's site and print a list of current books on e-commerce. Find a review of one of the books. Review the services you can get form amazon and describe all the benefits you can receive.   (6)

4. a) Explain Internet and its applications.   (6)

    b) Explain client-server computing model.   (6)

5. a) Explain IP address system with example.   (6)

    b) Explain different protocols with an example each.   (6)

6. a) Give the key elements of business model and explain.   (6)

    b) Explain the SCM process.   (6)

7. a) Explain the process of online credit card transactions.   (6)

    b) What are the design factors of E-payment systems?   (6)

8. Write notes on any **Two** of the following   (2×6=12)

    a) B2C E-Commerce.

    b) Web browsers.

    c) E-commerce design models.

    d) EDI process.

———————————

Roll No _____   [Total No. of Pages : 2]

PGIIIS-025-A-22

M.Sc III Semester (CBCS) Degree Examination

COMPUTER SCIENCE

Computer Graphics

Paper : SCT - 3.2

(New Syllabus)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidates:

i)   Section A is Compulsory.

ii)   Answer any FIVE questions from Section B.

SECTION - A

1.   Answer of the following questions.   (10×2=20)

a)   What are the uses of animation?

b)   How to scale polygons?

c)   What is resolution? How it is measured?

d)   What is affine transformation function? Write its functions?

e)   List any two key differences between the line drawing algorithms.

f)   How bounding rectangle is drawn on any object?

g)   Write matrix expression for general fixed point scaling.

h)   Define perspective projection.

i)   What are the uses of chromaticity diagram

j)   Define key-frame systems.