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Reg. No. | | | | | | | | |

V Semester B.C.A. Degree Examination, January/February- 2025
COMPUTER APPLICATIONS
Web Programming
(NEP Scheme F+R)

Time : 2½ Hours **Maximum Marks : 60**

Instructions to Candidates:

Answer any Four questions from each Sections.

SECTION - A

I. Answer any Four questions. Each question carries 2 marks. (4×2=8)

1. Define Web Server.
2. What is MIME?
3. What is Event Bubbling?
4. What are the main differences of SAX and DOM?
5. Differentiate between echo and print.
6. Write the syntax to create and delete a cookie in PHP.

SECTION - B

II. Answer any Four questions. Each question carries 5 marks. (4×5=20)

7. Write a program to demonstrate the visibility property of CSS.
8. Explain Navigator Object.
9. Explain XML namespace.
10. Explain the working of XSLT processor.
11. Explain various conditional statements in PHP with an example.
12. Write a program to demonstrate exception handling in PHP.

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SECTION - C

III. Answer any Four questions. Each question carries 8 marks. **(4×8=32)**

13. Explain in detail http request and http response phase.

14. Explain different methods of accessing form elements in Javascript.

15. a) Define XML schema. Differentiate between XML schema and DTD.

    b) Explain simple and complex XML schema types.

16. Explain in detail different types of arrays in PHP with example.

17. Explain file read and file write methods with example.

18. Outline the steps involved in connection to a database in PHP.

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V Semester B.C.A Degree Examination, January/February - 2025

COMPUTER SCIENCE

Cyber Crime Cyber Law and Intellectual Property Rights

(NEP Scheme , Freshers + Repeaters)

Time : 2½ Hours **Maximum Marks : 60**

Instructions to Candidates:

Answer All parts.

PART - A

I. Answer any **FOUR** questions. Each question carries **2** marks. **(4×2=8)**

1. What is Cyber Crime? Give an example.
2. What is Phishing?
3. What is Social Media Monitering?
4. Write any Two ways of digital wallets security.
5. Explain any Two types of Wi-Fi network security devices.
6. Define :
   a) Copyright
   b) Trade mark

PART - B

II. Answer any **FOUR** questions. Each question carries **5** marks. **(4×5=20)**

7. Explain different types of Cyber Crime.
8. Explain how to spot Email Phishing.
9. What are the most frequent security threats on Social media?
10. Write any Five smart tips for Internet banking.

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11. Explain the method of Installation and configuration of Anti-Virus.

12. What is Geographical Indicators (GI)? Write the significance of Geographical Indicators.

PART - C

III. Answer any **FOUR** questions . Each question carries **8** marks. **(4×8=32)**

13. Explain various issues and challenges of Cyber Security.

14. Discuss different data Protection laws in India.

15. Explain any Four social media platforms that are most widely used.

16. Explain Common frauds related to digital payments and their Preventive Measures.

17. Explain any four types of Intellectual Property Rights (IPR).

18. Write a note on traditional knowledge and IPR.

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V Semester B.C.A Degree Examination, January/February - 2025

COMPUTER SCIENCE

Cyber Crime Cyber Law and Intellectual Property Rights

(NEP Scheme , Freshers + Repeaters)

Time : 2½ Hours **Maximum Marks : 60**

Instructions to Candidates:

Answer All parts.

PART - A

I. Answer any **FOUR** questions. Each question carries **2** marks. **(4×2=8)**

1. What is Cyber Crime? Give an example.
2. What is Phishing?
3. What is Social Media Monitering?
4. Write any Two ways of digital wallets security.
5. Explain any Two types of Wi-Fi network security devices.
6. Define :
   a) Copyright
   b) Trade mark

PART - B

II. Answer any **FOUR** questions. Each question carries **5** marks. **(4×5=20)**

7. Explain different types of Cyber Crime.
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PART - C

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15. Explain any Four social media platforms that are most widely used.

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18. Write a note on traditional knowledge and IPR.

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V Semester B.C.A. Degree Examination, January/February- 2025
COMPUTER SCIENCE
Data Analytics
(NEP F+R Scheme)

Time : 2½ Hours **Maximum Marks : 60**

Instructions to Candidates:

Answer all Sections.

SECTION - A

I. Answer any **Four** questions. Each question carries **Two** marks. **(4×2=8)**

1. Mention any two goals of Data Analytics.
2. What is Prescriptive Analytics.
3. Define the term: Mutually exclusive.
4. What is linear correlation?
5. What is power BI service?
6. Define case study.

SECTION - B

II. Answer any **Four** questions. Each question carries **Five** marks. **(4×5=20)**

7. Explain Data Analytics tools in details.
8. Explain the process of text analytics.
9. In a Binomial distribution Mean = 6 and Variance = 1.5 . Find a) $P(x=2)$ b) $P(x \leq 2)$.
10. Distinguish between correlation and regression.

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11. Explain the types of case study with example.

12. What is Power Query? Explain the features of Power Query.

SECTION - C

III. Answer any **Four** questions. Each question carries **Eight** marks. **(4×8=32)**

13. Explain the features of web analytics and its key components.

14. What is Hypothesis Testing? Explain various types of Hypothesis testing.

15. Calculate correlation coefficient using Karl Pearson's method.

x	1	2	3	4	5
y	10	9	8	7	6

16. Define Regression. Explain the different types of Regression with suitable examples.

17. Explain different types of charts in power BI.

18. Write a case study on how netflix applies data analytics for content recommendations and personalization.

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V Semester B.C.A. Degree Examination, January/February - 2025
COMPUTER SCIENCE
Data Mining
(NEP Scheme F+R)

Time : 2½ Hours **Maximum Marks : 60**

Instructions to Candidates:

1) Answer any Four questions from each Parts.
2) Answer All Parts.

PART - A

Answer any Four questions. Each question carries Two marks. **(4×2=8)**

1. What is time series analysis?
2. What is correlation analysis? Give an example.
3. Define Entropy.
4. What is predictive data mining task?
5. What is Decision Tree?
6. What do you mean by Distributed Algorithm?

PART - B

Answer any Four questions. Each question carries Five marks. **(4×5=20)**

7. What are the difference between Data Mining and Knowledge Discovery in data base?
8. Explain Naive Bayesian Method.
9. Write short note on K-Nearest Neighbours algorithm and its applications.
10. Explain the classification of clustering algorithm.

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11. What is Descriptive Data Mining tasks? Mention the types of Descriptive Mining tasks.

12. Explain ETL process and pipelining principle in ETL.

PART - C

Answer any Four questions. Each question carries Eight marks. **(4×8=32)**

13. Explain various applications of Data Mining.

14. Explain the features of Data-ware housing.

15. Write a short note on Scalable DT Techniques.

16. Explain how K-Mean clustering algorithm is working give examples.

17. Define C4.5. Explain the key improvements of C4.5 over ID3.

18. What is Data Parallism? Explain in detail.

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V Semester B.C.A. Degree Examination, January/February - 2025
COMPUTER SCIENCE
Computer Graphics
(NEP Scheme F+R)

Time : 2½ Hours **Maximum Marks : 60**

Instructions to Candidates:

Answer All Sections.

SECTION - A

I. Answer any Four questions. Each question carries Two marks. **(4×2=8)**

1. What is an image processing?
2. Mention any four applications of computer graphics.
3. Define Transformation.
4. List out various types of text clipping.
5. Define window and viewport.
6. What is gravity field effect?

SECTION - B

II. Answer any Four questions. Each question carries Five marks. **(4×5=20)**

7. Explain the different factors affecting the CRT. **(5)**
8. Explain midpoint circle drawing algorithm. **(5)**
9. What is 2D reflection? Explain in detail. **(5)**
10. Explain Cohen Sutherland algorithm for the clipping with suitable illustration. **(5)**
11. Differentiate between parallel projection and perspective projection. **(5)**
12. Define Segment. Explain different attributes of Segment. **(5)**

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SECTION - C

III. Answer any Four questions. Each question carries Eight marks. **(4×8=32)**

13. Explain shadow mask method in color CRT with neat diagram and write it's advantages. **(8)**

14. Draw the line for given end points (20, 10) and (30, 18) using Bresenham's line drawing algorithm. **(8)**

15. Define Composite Transformation. Prove that two successive translations are additive and two successive scalings are multiplicative. **(8)**

16. With the neat diagram explain polygon surfaces and polygon tables. **(8)**

17. Explain depth buffer algorithm for hidden surface elimination. **(8)**

18. Write a note on:

    i) Light Pen. **(4)**

    ii) Direct View Storage Tube (DVST). **(4)**
