

**RS 16071**

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

FIRST SEMESTER

Computer Science

Paper 1 : COMPUTER FUNDAMENTALS AND PHOTOSHOP

(W.e.f. 2016-17 Admitted batch)

Maximum : 75 marks

Time : Three hours

SECTION A — ( $5 \times 5 = 25$  marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Explain various uses of Computer.
2. Write a short note on fourth generation Computers.
3. Write a short note on Mouse.
4. Write a short note on Cache memory.
5. Write a short note on Option bar in Adobe Photoshop.
6. Write a short note on screen modes in Adobe Photoshop.
7. What is image size and resolution?
8. Write a short note on Patch tool in Adobe Photoshop.
9. Write short note on Brush stroke filter in Adobe Photoshop.
10. What are Blur filters in Adobe Photoshop?

SECTION B — ( $5 \times 10 = 50$  marks)

Answer ALL the questions.

Each question carries 10 marks.

11. What is Computer? Explain the block diagram of Computer.  
Or
12. Explain various Number Systems.
13. Explain various Magnetic storage devices.  
Or
14. Explain various types of Software.

15. Explain how to create and save a document in Adobe Photoshop.  
Or
16. Explain various features and advantages of Adobe Photoshop.
17. Explain various Colour modes and adjustments in Adobe Photoshop?  
Or
18. Explain how to crop and straighten an image in Adobe Photoshop.
19. Explain Distort and Noise filters in Adobe Photoshop.  
Or
20. Explain Pixelate and Sharpen filters in Adobe Photoshop.
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**RS 16071**

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2018.

FIRST SEMESTER

Computer Science

Paper I — COMPUTER FUNDAMENTALS AND PHOTOSHOP

(w.e. from 2016-17 Admitted Batch)

Maximum : 75 marks

Time : Three hours

(No additional sheet will be supplied)

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. List the characteristics and limitations of computer.
2. Write a brief note on types of computers.
3. Explain system software and application software.
4. Explain windows desktop and icons.
5. Write the steps to create a document in Photoshop.
6. Write a brief note on tool box in Photoshop.
7. Write a note on image size and resolution in Photoshop.
8. Explain about patch tool in photo shop.
9. Write about artistic filter in Photoshop.
10. Write a note on light effects in photo shop.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

11. Explain the block diagram of a computer.

Or

12. Explain different number systems with examples.

13. Explain any three input and output devices.  
Or
14. Write a detailed note on computer memories.
15. Explain page layout and background in Photoshop.  
Or
16. Write a detailed note on photoshop program window.
17. Explain different color modes and adjustments in Photoshop.  
Or
18. Write a detailed note on advanced retouching and smoothing skin options in Photoshop.
19. Explain the process of editing a photo shoot in Photoshop.  
Or
20. Explain brush store filter and blur filter and distort filters in Photoshop.
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**RS 66077**

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, APRIL/MAY 2018.

SIXTH SEMESTER

Computer Science

Paper VII — WEB TECHNOLOGIES

Maximum : 75 marks

Time : Three hours

(No additional sheet will be supplied)

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What is the use of HTML?
2. What is a Frame?
3. What is CSS?
4. What is a layer?
5. What is DHTML?
6. What is Javascript?
7. Why data validation is required?
8. What is a status bar?
9. What is XML?
10. What is a web application?

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

11. Explain HTML structure with example.
- Or
12. Write a HTML code implementing frames concept.
  13. Explain the creation of your own styles in CSS.
- Or
14. How do you format blocks of information?

15. Write a Javascript implementing mathematical functions.  
Or

16. Explain exception handling in javascript.

17. Write a DHTML code implementing messages and confirmations.  
Or

18. Explain rollover buttons with examples.

19. Explain XML advantages.  
Or

20. Write about various web services.

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**RS 31013**

THREE YEAR B.A./B.Sc.(CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2018.

THIRD SEMESTER

Computer Applications

Paper III — NETWORKS AND INTERNET FOUNDATION

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Write a note on Network Interface Cards (NIC) and Switches.
2. Explain analog and digital signal transmission.
3. Write a note on SMTP and HTTP protocols.
4. Write a note on cryptography.
5. Write a brief note on internet Service Providers.
6. What is news groups? Explain.
7. Explain in brief about Internet infrastructure.
8. Explain about intranet security.
9. Write a brief note on WML protocol.
10. Write a brief note on firewalls.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

11. Explain the advantages and disadvantages of Networks.

Or

12. Write a detailed note on types of topologies.

13. Explain different layers present in Network Architecture.

Or

14. Write a detailed note on Address Resolution Protocol (ARP) and Reverse Address Resolution Protocol (RARP).

15. Write a detailed note on search engines.

Or

16. Write the steps for setting windows environment for dial up networking.

17. Explain in detail about Intranet architecture.

Or

18. Explain how intranet is used as a business tool.

19. Write a detailed note on wireless network equipment.

Or

20. Write a detailed note on virus and antivirus.

**RS 31013**

THREE YEAR B.A./B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

THIRD SEMESTER

Computer Applications

Paper III — NETWORKS AND INTERNET FOUNDATION  
(Common to B.A. and B.Sc.)

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — ( $5 \times 5 = 25$  marks)

Answer any FIVE questions.

1. What is networking? What are its types?
2. Discuss repeaters and bridges.
3. Write a note on application layer.
4. Discuss Reverse Address Resolution Protocol (RARP).
5. What is Internet? What are its uses?
6. Discuss about audio on Internet.
7. What is a protocol? Explain.
8. What is intranet? Explain.
9. What is the purpose of WM L protocol? Explain.
10. Discuss the need of firewalls.

SECTION B — ( $5 \times 10 = 50$  marks)

Answer ALL questions.

11. Discuss advantages and disadvantages of network.
- Or
12. Discuss different types of topologies.
  13. Discuss network architecture.
- Or
14. Write a note on SMTP, IMAP, HTTP and Telnet.

15. Discuss about search engines.

Or

16. Discuss about newsgroups in detail.

17. Discuss about Intranet Architecture in detail

Or

18. Discuss about Internet security in detail.

19. Write the list of wireless networking equipment? Explain the need of each one.

Or

20. Write a detail note on virus and antivirus.

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**RS 36073**

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

THIRD SEMESTER

COMPUTER SCIENCE

Paper III — OBJECT ORIENTED PROGRAMMING USING JAVA

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

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SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Write a short note on Java Virtual Machine.
2. Explain various data types present in Java.
3. Write short note on Switch statement in Java.
4. Discuss break and continue in Java.
5. What is a Constructor? What are its special properties?
6. What is Vector? How it differs from an Array?
7. What is package? List some system packages in Java.
8. Write a short note on Thread Synchronization in Java.
9. Write a short note on finally in Java.
10. Write differences between Applications and Applets.

SECTION B — (5 × 10 = 50 marks)

Answer ALL the questions.

Each question carries 10 marks.

11. Explain the basic Concepts of Object Oriented Programming.

Or

12. Explain structure of Java program with example.

13. Explain various operators in Java.

Or

14. Explain various Looping structures in Java.

15. What is Inheritance? Explain various forms of Inheritance.

Or

16. Explain Method Overriding in with example.

17. What is an Interface? Explain how to define and implement an Interface in Java.

Or

18. Explain Thread Life Cycle in Java.

19. What is an Exception? Explain how to handle the Exceptions in Java.

Or

20. Explain the Life cycle of an Applet in Java.

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**RS 41014**

THREE YEAR B.A./B.Sc./B.Com. (CBCS) DEGREE EXAMINATION, APRIL/MAY 2018.

FOURTH SEMESTER

COMPUTER APPLICATIONS

Paper IV — PROGRAMMING IN C

(Common to B.A. & B.Sc.)

(w.e.f 2016-17 admitted batch)

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

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SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the flowchart symbols with examples.
2. Define the following terms with examples.  
(a) Variables (b) Constants
3. Explain GO TO statement with example.
4. Explain break and continue statement with examples.
5. What is an array? How do you access the elements of an array?
6. What is a string? Explain declaring a string with an example.
7. Define a function. What is a function prototype?
8. What is recursion? Explain with an example.
9. Define a pointer. What are the uses of pointers?
10. Write a brief note on enumerated data types.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

11. Define Algorithm Explain the features of algorithms.
- Or
12. Explain different operators present in 'C'.

13. Explain different types of If statements with examples.

Or

14. Explain different iterative statements in 'C' language.

15. Write a program to find the sum of two matrices using two-dimensional arrays.

Or

16. Explain any four string handling functions with example.

17. What is a function? Explain the concept of passing parameters to functions.

Or

18. Write a detailed note on storage classes.

19. Write a detailed note on pointers and arrays.

Or

20. What is a structure? Explain nested structures and arrays of structures.

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**RS 41014**

THREE YEAR B.A./B.Sc. (CBCS) DEGREE EXAMINATION, MARCH/APRIL 2019.

FOURTH SEMESTER

Computer Applications

Paper IV — PROGRAMMING IN 'C'

(W.e.f 2016–17 Admitted Batch)

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

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SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. What is algorithm? What are the features of algorithms?
2. Write about input and output statements in C.
3. Write about switch statement with example.
4. Explain how can declare and initialize two dimensional arrays.
5. Explain any two methods for reading and writing strings.
6. What is recursion? Explain with example.
7. What are the differences between call-by-value and call-by-reference?
8. Write about enumerated data types.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

9. Explain basic structure of C program with example.

Or

10. Explain the following.

- (a) Flowchart and its significance.
- (b) Data types

11. Explain break, continue and go to statements with example.

Or

12. Explain iterative statements with example.

13. (a) Explain one-dimensional array with example.

(b) Explain operations on arrays.

Or

14. What is string? Explain different string handling functions.

15. Explain about functions with example.

Or

16. Explain different storage classes in C.

17. Explain about pointers with example.

Or

18. Explain unions with example.

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(No additional sheet will be supplied)

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SECTION A — ( $5 \times 5 = 25$  marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. List the objectives of DBMS.
2. Explain the advantages of DBMS.
3. What are relational keys? Explain with examples.
4. List out the advantages of relational algebra.
5. Define attribute. Explain different types of attributes.
6. Write a note on specialization.
7. Explain set operations in SQL.
8. Write a brief note on Embedded SQL.
9. Explain the advantages of PL/SQL.
10. Distinguish Function Vs procedure.

SECTION B — ( $5 \times 10 = 50$  marks)

Answer ALL questions.

Each question carries 10 marks.

11. Write a detailed note on evolution of Database Management System.

Or

12. Explain in detail about different data models.
13. Explain in detail about CODD's Rules.

Or

14. Write a detailed note on relational algebra.

15. What is degree of relationship? Explain different relationship degrees with examples.

Or

16. Explain Super type/subtype relationship in EER model with example.

17. (a) Explain aggregate functions with examples.

(b) Write a brief note on views.

Or

18. What is a constraint? Explain different types of constraints in detail.

19. Explain different control structures present in PL/SQL.

Or

20. Write a detailed note on cursors in PL/SQL.

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RS 51015

8-11-2019 AM

THREE YEAR B.A./B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019

FIFTH SEMESTER

COMPUTER APPLICATIONS

(Common to B.A. and B.Sc)

Paper V — DATABASE MANAGEMENT SYSTEMS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Define the following terms.
  - (a) Data
  - (b) Information
  - (c) DBMS
2. What is an attribute? Explain different types of attributes.
3. Define the following :
  - (a) Fully functional dependency
  - (b) Partial Dependency.
4. Write the syntax and example for CREATE TABLE command.
5. Explain the following SQL operators with examples.
  - (a) BETWEEN
  - (b) IN
  - (c) LIKE
6. Explain different types of literals in SQL.
7. Explain conversion functions with examples.
8. Write a brief note on sub queries.
9. Explain IF statement with an example.
10. Compare Function Vs Procedure.

PART B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

11. Explain the advantages and disadvantages of DBMS.

Or

12. Explain different steps involved in converting E-R model into Relations.

13. Define Normalization. Explain 1NF, 2NF, 3NF with examples.

Or

14. Write a detailed note on categories of SQL commands.

15. (a) Explain UPDATE statement in SQL with example.

(b) Write a brief note on Enable/Disable constraint.

Or

16. (a) Explain Commit, Rollback and Save Point commands with examples.

(b) Explain the following clauses with example.

(i) GROUP BY

(ii) ORDER BY

17. Write a detailed note on Indexes and Views.

Or

18. Write a detailed note on Joins.

19. What is a cursor? Explain explicit cursor management.

Or

20. Write a detailed note on packages.

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**RS 56076**

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

FIFTH SEMESTER

Computer Science

Paper VI — SOFTWARE ENGINEERING

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

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SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Write a brief note on project management.
2. Explain about software estimation.
3. Write a brief note on feasibility study.
4. Write a note on measuring quality.
5. Write a brief note on Abstraction.
6. Write a brief note on Cohesion.
7. Explain the design process for user interface.
8. Explain in brief about interface design activities.
9. Write short notes on Software Quality Assurance.
10. Explain in brief about validation and system testing.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

11. Explain the following software engineering paradigms

- (a) Linear Sequential Model
- (b) Spiral Model.

Or

12. Write a detailed note on COCOMO model.
13. Describe different steps in requirement engineering process.

Or

14. Write a detailed note on requirement analysis models.

15. Write a detailed note on Software Architecture.

Or

16. Explain Architectural design and Procedural design in software design.

17. Write a detailed note on Human-Computer Interface design.

Or

18. Write a detailed note on Interface standards.

19. Explain about Software Reliability.

Or

20. Write a detailed note on Control Structure testing and Black Box testing.

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**RS 51016 A**

THREE YEAR B.A./B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

FIFTH SEMESTER

Computer Applications

Paper VI-A: ELECTRONIC COMMERCE (ELECTIVE)

(Common to B.A. & B.Sc.)

Time : Three hours

Maximum: 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Define E-commerce. Explain the scope of E-commerce.
2. Write a brief note on inter organizational E-commerce systems.
3. Explain access equipment in network infrastructure.
4. Explain the usage of internet in E-commerce.
5. Write a brief note on security services.
6. What is encryption? Explain any one encryption technique.
7. Write a brief note on Electronic Fund Transfer.
8. Write a brief note on properties of electronic cash.
9. Write about WAP gateway.
10. Write a brief note on ethical issues in e-commerce.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

11. Explain the categories of Business-to-Consumer E-commerce.

Or

12. Write a detailed note on EDI.

13. Explain about Access Media and Network Infrastructure for E-commerce.

Or

14. Write a detailed note on Intranet and Extranet.

15. Explain the security threats on Internet and their impact.

Or

16. Explain the usage of firewalls in network.

17. Explain different types of Electronic Payment Systems.

Or

18. Write a detailed note on Mobile Commerce.

19. Write a detailed note on WAP.

Or

20. Write a detailed note on regulations and laws related to E-commerce.

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(No additional sheet will be supplied)

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SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. What do you mean by URL? Explain the various components of an URL.
2. What are the applications of SGML?
3. What is a Prompt pop up box? How it is different from Confirm pop box?
4. What do you mean by Object?
5. Write any three differences between HTML and DHTML.
6. What is meant by Data Binding?
7. Write the uses of XML.
8. Define DTD. Write the types of DTD.
9. Write the stages of Servlet life cycle.
10. What are the problems with Servlet?

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

Each question carries 10 marks.

11. What is CGI? Enlist and explain various environmental variables that are associated with CGI. (2+8)  
Or
12. What is the concept of image map and hot spot? Illustrate it with suitable HTML code. (10)

13. Write the applications and basics of Javascript. (5+5)  
Or
14. Explain any five string handling functions of string object in javascript with suitable examples. (10)
15. Define CSS. Explain in detail about various style sheets. (2+8)  
Or
16. Discuss in detail about Event Model. (10)
17. Explain in detail about Data types in XML Schemas. (10)  
Or
18. What is an XML Processor? Differentiate between DOM and SAX. (2+8)
19. What is a cookie? What are its advantages and disadvantages? (10)  
Or
20. Explain the anatomy of JSP page. (10)
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**RS 11011**

THREE YEAR B.A./B.Sc. (CBCS) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

FIRST SEMESTER

COMPUTER APPLICATIONS

Paper I — FUNDAMENTALS OF COMPUTERS

(Common to B.A. and B.Sc.)

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

1. Write a short note on Generations of Computers.
2. Discuss various Applications of Computer in brief.
3. Write a short note on Primary Memories.
4. Write a short note on Optical disks.
5. Differentiate System software and Application software.
6. Write a short note on Firmware.
7. What is Flowchart? Explain various symbols used in Flowchart.
8. Write an algorithm to swap two given numbers.
9. Write a short note on Search Engine.
10. Write a short note on Malware and Virus.

PART B — (5 × 10 = 50 marks)

Answer ALL the questions.

Each question carries 10 marks.

11. Explain the basic organization of Computer.  
Or
12. Explain any three input and three output devices.
13. Explain various types of Magnetic Storage devices.  
Or
14. Explain Basic Processor Architecture.

15. Explain various functions of Operating Systems.  
Or

16. Write a detailed note on Design and implementation of correct, efficient and maintainable programs.

17. What is Algorithm? Explain various types of control structures used in Algorithms.  
Or

18. Explain the categorization of High-level languages.

19. Write a detailed note on Electronic Mail.  
Or

20. Discuss Peer-to-Peer computing in detail.

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