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PI—01—2024

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

MARCH/APRIL, 2024

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-101

(Fundamentals of Computer Science and Information Technology)

(Tuesday, 2-4-2024)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) *All questions are compulsory.*

(ii) *Figures to the right indicate full marks.*

(iii) *Assume suitable data, if required.*

(iv) *Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.*

1. Attempt any *five* of the following (**3** marks each) :

15

(a) Define Computer.

(b) What is Microcomputer ? Explain.

(c) What is Workstation ? Explain.

P.T.O.

- (d) Explain use of Joystick.
- (e) Explain Compact Disk in short.
- (f) What is Cache Memory ? Explain.
- (g) What is E-mail ? Explain.

2. Attempt any *three* of the following (5 marks each) : 15

- (a) Explain in detail Basic Computer Organization.
- (b) Explain in detail input device Keyboard and Mouse.
- (c) What is Digital Versatile Disk ? Explain in detail.
- (d) Explain types of Computer Network.
- (e) Explain Client and Server Computer.

3. Attempt any *three* of the following (5 marks each) : 15

- (a) What are the characteristics of Computer ? Explain.
- (b) Describe in detail Monitor and Printer.
- (c) Differentiate between RAM and ROM.
- (d) What is Operating System ? Explain types of Operating system.
- (e) Discuss in brief Data Transmission Modes.

4. Attempt any *three* of the following (5 marks each) : 15

- (a) What are the Generations of Computer ? Explain.
- (b) What are Biometric Devices ? Explain its use.

- (c) Describe in brief Disk Operating System.
 - (d) Explain in detail OSI Model.
 - (e) Discuss in brief File Transfer Protocol.
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) Minicomputer
 - (b) Light pen
 - (c) USB Flash Drive
 - (d) Web Browser
 - (e) Linux Operating System.

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PI—07—2024

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

MARCH/APRIL, 2024

(Revised/CBCS Pattern)

COMPUTER APPLICATION

(Office Automation)

(Thursday, 4-4-2024)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data if required.

1. Attempt any *five* of the following :

15

(a) Font tab.

(b) Inserting table in word.

(c) Slide show.

(d) Goal seek.

(e) Cut copy paste.

(f) View button.

(g) Row height.

P.T.O.

2. Attempt any *three* of the following : 15
- (a) Explain in detail opening screen of Microsoft PowerPoint.
 - (b) Explain print dialog box in detail.
 - (c) What is chart ? Explain types of chart in detail.
 - (d) Explain adding audio and video on slide.
 - (e) Describe creating database in MS-Access in detail.
3. Attempt any *three* of the following : 15
- (a) Discuss about editing options in MS-Word.
 - (b) Explain Header and Footer in detail.
 - (c) What is formula ? Explain basic functions in detail with example.
 - (d) Explain reports in MS-Access in detail.
 - (e) Explain different views of slides.
4. Attempt any *three* of the following : 15
- (a) Explain opening screen of MS-Access.
 - (b) Explain mail merge in detail.
 - (c) Explain advantages of MS-Access.
 - (d) Explain cell formatting in Excel.
 - (e) Explain string function.

5. Attempt any *three* of the following :

15

- (a) Explain basic numerical function.
- (b) Explain data validation in detail.
- (c) Explain procedure to creating forms in MS-Access.
- (d) Explain Style tab.
- (e) Different presentation views.

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PI—13—2024

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

MARCH/APRIL, 2024

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper-BCA-103

(Programming in C)

(Saturday, 06-04-2024)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

(iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt any *five* of the following (3 marks each) :

15

(a) Explain keywords in C language.

(b) What is constant ? Explain.

(c) Explain concept of Interpreter in brief.

P.T.O.

- (d) Explain Exit controlled loop.
- (e) Explain goto statement.
- (f) Explain strlen() and strcpy() function.
- (g) Define if-else statement.
2. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain flowchart and flowcharting symbols in detail.
- (b) Explain structure of C program.
- (c) Explain for loop statement with a suitable example.
- (d) Write a program in C to calculate square of a given number.
- (e) Explain formatted I/O statement.
3. Attempt any *three* of the following (5 marks each) : 15
- (a) Differentiate between while and do-while loop.
- (b) Explain break and continue statement with example.
- (c) What is user define function ? Explain with example.
- (d) Write a program in C to find the given number is even or odd.
- (e) Write a program in C for addition of 1 to 100 even numbers.
4. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain call by value with a suitable example.

- (b) What is Structure ? Explain with example.
 - (c) What is Array ? Explain types of array.
 - (d) Explain operators in C language.
 - (e) Explain Nested if-else statement with example.
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) Compiler
 - (b) Switch statement with example
 - (c) Gets() and puts() function
 - (d) Data Types
 - (e) Recursion.