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GK—01—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-101

(Fundamentals of Computer Science and Information Technology)

(Wednesday, 19-4-2023)   **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 and explain computer.

  (*b*)   What is Minicomputer ? Explain.

  (*c*)   What is Light pen ? Explain.

P.T.O.

(*d*) Write a short note on DVD.

(*e*) Define and explain operating system.

(*f*) What is E-Mail ? Explain.

(*g*) Explain Web Browser in short.

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

(*a*) Explain the characteristics of Computer.

(*b*) Explain Monitor and Printer in detail.

(*c*) Differentiate between CD and DVD.

(*d*) Explain in detail Windows Operating System.

(*e*) What are the Data Transmission Modes ? Explain.

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

(*a*) Draw and explain the Basic Computer Organization in detail.

(*b*) Explain in detail Keyboard and Mouse.

(*c*) Explain the types of Operating System.

(*d*) What is File Transfer Protocol ? Explain.

(*e*) What is Mainframe Computer ? Explain.

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

(*a*) Explain in detail Computer Generations.

(*b*) What is Computer Memory ? Explain RAM in detail.

(*c*) Describe in brief Disk Operating System.

(*d*) Explain types of Computer Network.

(*e*) Discuss in brief Client and Server.

5. Write short notes of any *three* of the following (**5** marks each) : 15

(*a*) Types of Web Browser

(*b*) Biometric Devices

(*c*) Cache Memory

(*d*) Memory Card

(*e*) ROM.

This question paper contains **3** printed pages]

GK—09—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

(Office Automation)

(Friday, 21-4-2023)   **Time : 10.00 a.m. to 1.00 p.m.**

Time—Three Hours   *Maximum Marks*—75

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

(*ii*)   *All* questions carry equal marks.

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

1.   Attempt any *five* of the following :

(*a*)   Font tab

(*b*)   Custom dictionary

(*c*)   Slide show

(*d*)   Goal seek

(*e*)   Find and replace

(*f*)   View button

(*g*)   Slide transition.

P.T.O.

2.   Attempt any *three* of the following :

   (*a*)   Explain in detail opening screen of MS-Word.

   (*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 :

   (*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 custom animation effect in detail.

4.   Attempt any *three* of the following :

   (*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 :

(*a*)   Explain any *four* aggregate function.

(*b*)   Explain data validation in detail.

(*c*)   Explain procedure to creating forms in MS-Access.

(*d*)   Explain Style tab.

(*e*)   Describe the use of slideshow in MS-PowerPoint.

GK—16—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-103

(Programming in C)

(Tuesday, 25-4-2023)   **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)   What is Variable ? Explain.

(b)   Explain the concept of Compiler.

(c)   Explain if-statement with example.

P.T.O.

(d) Explain Break statement.

(e) What is Keyword ? Enlist the keyword in C.

(f) What is Array ? Explain.

(g) Explain strupr( ) and strlwr( ) function.

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

(a) Explain history of C language.

(b) Describe the data types used in C language.

(c) Explain Switch statement with suitable example.

(d) Write a program in C to find the smallest number among three numbers.

(e) Define and explain getch( ) and getchar( ) function.

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

(a) Differentiate between entry controlled and exit controlled loop.

(b) Explain nested for-loop.

(c) Explain two-dimensional array with example.

(d) Write a program in C for addition of 1 to 10 numbers in C.

(e) Write a program in C to calculate Square of a given number.

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

(a) Explain call by reference with example.

(b) What is Union ? Explain with example.

(*c*) What is Algorithm ? Explain.

(*d*) What is Structure ? Explain accessing structure member.

(*e*) What is Recursion ? Explain with example.

5. Write short notes of any *three* of the following (**5** marks each) : 15

(*a*) constants

(*b*) goto statement

(*c*) printf( ) and scanf( ) statement

(*d*) if-else statement

(*e*) for loop statement