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GK—05—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper AK-05

(Business Accounting with Tally)

(Thursday, 20-4-2023)

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.*

1. Attempt any *five* of the following (3 marks each) : 15

- (a) Explain the subsidiary book in tally.
- (b) What is account estimate ?
- (c) Explain the ledgers in tally ERP-9.
- (d) Explain the valuation principles in tally ERP-9.

P.T.O.

- (e) What is trading account ?
- (f) Explain the WDV and SLM methods.
- (g) Define the various types of account.

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

- (a) What is the difference between Accounting and Book-keeping ?
- (b) Explain the Journal() and Payment() voucher system.
- (c) What is bank reconciliation statement in tally ERP-9 ?
- (d) Explain in detail preparation of trading and profit account.
- (e) Explain the Balance Sheet of Sole Proprietary Business.

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

- (a) Explain the procedure to CREATE a company in tally.
- (b) Explain the procedure to BACKUP and RESTORE in tally.
- (c) Explain the procedure to DELETE a Godown in tally.
- (d) Explain the procedure to CREATE Stock CATEGORY in tally.
- (e) Explain the procedure to DISPLAY GROUPS in tally.

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

- (a) Explain the understanding of final account of company.
- (b) Explain the golden rules of financial accounting.

- (c) What are the various modes of accounting ?
- (d) What are the voucher systems in tally ? Explain it.
- (e) Explain the benefits of accounting policies.

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

- (a) Write a short note on accounting measurement discipline.
- (b) Write a short note on Double entry system of Book-keeping.
- (c) Write a short note on creating of book account.
- (d) Write a short note on stock group and stock items.
- (e) Write a short note on objectives of financial accounting.

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GK—25—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

ELEMENTS OF STATISTICS

(Thursday, 27-4-2023)

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) Non-programmable calculator is allowed.

(v) Each question carries equal marks.

1. Attempt any *five* of the following : 15

(a) Explain collection of data.

(b) Write drawbacks of Statistics.

(c) Define probability of an event.

(d) Explain Standard deviation.

(e) Explain Simple correlation.

(f) Explain n factorial (n!).

(g) What is the probability of occurring 53 Sunday's in a leap year ?

P.T.O.

WT

(2)

GK—25—2023

2. Attempt any *three* of the following :

15

- (a) Explain types of data.
- (b) Write scope of statistics in field of Economics.
- (c) Give any *two* definitions of statistics.
- (d) Calculate median from the following data :

Class	Frequency
20—25	12
25—30	19
30—35	22
35—40	16
40—45	11
45—50	7

- (e) Calculate mode from the following data :

Weight	No. of Students
37	8
25	10
28	15
17	11
45	9
54	6

WT

(3)

GK—25—2023

3. Attempt any *three* of the following :

15

- (a) Define correlation. Explain positive and negative correlation.
- (b) Writes merits and demerits of mean.
- (c) Explain dispersion.
- (d) Calculate variance from the following data :

X	F
5—10	8
10—15	13
15—20	22
20—25	12
25—30	9
30—35	2

- (e) Find standard deviation from the following data :

Score	Freq.
0—15	5
15—30	15
30—45	17
45—60	13
60—75	6

P.T.O.

4. Attempt any *three* of the following :

15

- (a) Explain Karl Pearson's coefficient of correlation.
- (b) Explain regression equations.
- (c) Calculate coefficient of correlation from the following data :

X	Y
7	8
2	3
9	2
4	10
6	4

- (d) Obtain the regression equation of X on Y from the following data :

X	Y
5	4
9	7
7	6
6	3
4	5

- (e) Find means of x and y from the two regression lines :

$$2X - 3Y + 4 = 0$$

$$7X + 2Y - 4 = 0$$

5. Attempt any *three* of the following : 15

- (a) Explain sample space.
- (b) Explain event.
- (c) If A and B are any *two* not mutually exclusive event then prove that :

$$P(A \cup B) = P(A) + P(B) - P(A \cap B).$$

- (d) If one card is drawn from a pack of 52 cards then what is the probability of obtaining ace or face card.
- (e) If one ball is drawn from a bag containing 25 balls, numbered from 1 to 25, then what is the probability that the number on drawn ball will be either prime or perfect square ?

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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.

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GK—13—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-202

(Organizational Behavior)

(Monday, 24-4-2023)

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 necessary.

1. Attempt any *five* of the following :

15

(a) What is meant by Organizational Behavior ?

(b) Define Individual Behavior.

(c) Define Personality.

(d) What is meant by Group Behavior ?

(e) Define Perception.

(f) Define Leadership.

(g) What is meant by Work Stress ?

P.T.O.

2. Attempt any *three* of the following : 15
- (a) Explain the scope of Organizational Behavior.
 - (b) Write down the importance of Leadership.
 - (c) Describe the Determinant Personality.
 - (d) Explain the Contingency Theory of Leadership.
 - (e) Write down the consequences of Work Stress.
3. Attempt any *three* of the following : 15
- (a) Describe the significance of Organizational Behavior.
 - (b) Explain the components of Attitude.
 - (c) Discuss on Maslow's Theory.
 - (d) Write down the Group Development Stage.
 - (e) Describe the types of Stress.
4. Attempt any *three* of the following : 15
- (a) Discuss on emerging challenges in Organizational Behavior.
 - (b) Write down the importance of Motivation.
 - (c) Explain the nature of Group Behavior.
 - (d) Describe the group decision-making.
 - (e) Write down the causes of Work Stress.

WT

(3)

GK—13—2023

5. Write short notes of any *three* of the following :

15

- (a) Nature of Organizational Behavior
- (b) Determinant of Individual Behavior
- (c) Trait of Personality
- (d) Styles of Leadership
- (e) Strategies for Managing Work Stress.

GK—13—2023

3

This question paper contains 3 printed pages]

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) Explainstrupr() 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

This question paper contains 3 printed pages]

GK—21—2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

(Web Technology)

(Wednesday, 26-4-2023)

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) Explain SPAN tag in HTML.

(b) What is W.W.W. ? Explain.

(c) Explain FRAMESET tag.

P.T.O.

- (d) Explain Embedded Style Sheet.
- (e) Explain Radio Button Control.
- (f) What is Telnet ? Explain.
- (g) Explain ordered list in HTML.

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

- (a) Explain Creating Email Hyperlinks in HTML with example.
- (b) Explain tag in HTML.
- (c) Explain TABLE, TR, TH, TD tag with example.
- (d) Explain input and output statements of JavaScript.
- (e) Explain different Text-Level Elements in HTML.

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

- (a) What is JavaScript ? Explain features of JavaScript.
- (b) Explain MARQUEE tag with example.
- (c) Explain HTML, HEAD, TITLE, BODY tags.
- (d) How to create hyperlinks in HTML document ? Explain with example.
- (e) Explain <div> tag with example.

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

- (a) Explain <form> tag with attributes.
- (b) Explain tag with all attributes.

- (c) Write HTML code to design HTML Login form which includes Text control, Password Field Control, Submit Button and Reset Button Control.
 - (d) Explain <frame> tag in HTML.
 - (e) Explain External Style Sheet with example.
5. Write short notes of any *three* of the following (5 marks each) : 15
- (a) Variables in JavaScript
 - (b) Using Images as links
 - (c) Scrolled List
 - (d) Web browser
 - (e) Un-ordered List.

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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.