# GK-23-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

## **BCA (Fifth Semester) EXAMINATION**

#### **APRIL/MAY, 2023**

(CBCS/Revised Pattern)

## COMPUTER APPLICATION

(Cloud Computing)

(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 cloud computing in brief.
- (b) Explain AJAX.

				10/7
		Bolt Tro		
		AND BOTH AND	30/82	
WT			GK-	-23-2023
	(c)	Explain SOAP.		
	( <i>d</i> )	Explain web enabled application.		
	(e)	Explain Big table.		
	( <i>f</i> )	Explain emergence of software as a service.		
	(g)	Explain HDFS.		C. A.
2.	Attem	apt any three of the following (5 marks each):		15
	(a)	Explain laas.		OF THE
	(b)	Explain Amazon EC2.		io, 84
	(c) S	Explain mainframe architecture.	S. S	
30	(d)	Explain REST.		
	(e)	Explain Microsoft azure.	ARSO	
3.	Attem	apt any three of the following (5 marks each):		15
	(a)	Explain client server architecture.		
	(b)	Explain GFS.		
	(c)	Explain DEV 2.0.		
	(d)	Explain 3-tier architecture.		
	(e)	Explain internet of services.		
4.	Attem	apt any three of the following (5 marks each):		15
	(a)	Explain PaaS.		
E.		BEIGN. SELLIN		
50		38CB61AA1307A2B3BBC109A177E6F1A4		
V.				

WT (3) GK—23—2023

- (b) Explain relational databases.
- (c) Explain mashups.
- (d) Explain SOAP Vs. REST.
- (e) Explain Cloud computing applications.
- 5. Write short notes on any three of the following (5 marks each): 15
  - (a) Cloud computing applications
  - (b) GFS
  - (c) HBase
  - (d) Microsoft Azure
  - (e) Dynamo.

# GK-22-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

# BCA (Third Year) (Fifth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS/Revised Pattern)

## COMPUTER APPLICATION

Paper BCA-504-A

(Computer Network)

(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) What is computer Network? Explain.
- (b) Explain Ring Topology.
- (c) Explain in brief Coaxial Cable.

WT

WT (3) GK—22—2023

- (c) Explain in detail Radio Transmission.
- (d) Explain TCP/IP reference model in detail.
- (e) Explain concept of Collision detection and recovery.
- 5. Write short notes on any three of the following (5 marks each): 15
  - (a) Fiber Optics cable
  - (b) Bluetooth
  - (c) Extranet
  - (d) HTTP
  - (e) Digital Signature.

# GK-32-2023

## FACULTY OF SCIENCE

# **BCA (Fifth Semester) EXAMINATION**

#### APRIL/MAY, 2023

(CBCS/Revised Pattern)

## COMPUTER APPLICATION

(Mobile Application Development)

(Friday, 28-4-2023)

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

15

- (a) Define the Android Manifest.xml.
- (b) Discuss the Android architecture.
- (c) Explain intent.
- (d) Discuss the grid view control.
- (e) Explain input event

WT		( 2 ) GK—32—	-2023
	( <i>f</i> )	Explain 3D graphics.	\$
	(g)	Bluetooth.	
2.	Answ	ver any three of the following:	15
	(a)	Explain activity life cycle with a suitable diagram.	NEW.
	( <i>b</i> )	Discuss Android features.	
	(c)	Explain Android emulators.	
	(d)	Discuss the Android Application Framework.	
3.	Answ	ver any three of the following:	15
	(a)	Explain application template in detail.	
	(b)	What is Menu? How is it used in program? Explain.	
	(c)	Write a program in Android to use the concepts of Bu	uttor
		control.	
	(d)	What is Services? Explain the types of Android services.	
4.	Answ	ver any three of the following:	15
	(a)	Write the methods of Media Player Class.	
	(b)	How to implement Zoom In or Zoom Out application in Andro	id.
)V	(c)	Write a program to Fade in Fade out animation effect to An	ıdroid
		App.	
	(d)	Discuss the 3D graphics with a suitable example.	
		82AFD9962C61B706BCCD76D2E6497090	

$\operatorname{WT}$	$(\bigcirc 3)$	GK-32-2	023
---------------------	----------------	---------	-----

- 5. Answer any three of the following:
  - (a) Explain SQLite Databases.
  - (b) Explain Wi-Fi Connectivity.
  - (c) What is GPS? How to find the current location using GPS?
  - (d) Explain JSON Parsing.

GK-32-2023

3

# GK-06-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

#### BCA (Third Year) (Fifth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS/Revised Pattern)

## COMPUTER APPLICATION

Paper BCA-501

(System Analysis and Design)

(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.
  - (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:

15

- (a) Define System and explain concept of system.
- (b) What is an initial investigation?
- (c) Explain feasibility study with technical.

WT			GK-	-06	2023
	(d)	Explain decision tree in detail.			. 60
	(e)	Explain dimensions of Planning in system analysis.			
	( <i>f</i> )	Define the term "Data Dictionary". Give an example.			
	(g)	Explain HIPO charts.			
2.	Attem	pt any three of the following:			15
	(a)	Describe system development Life-cycle and explain its	vario	us ph	ases.
	(b)	Explain physical and abstract system.			
	(c)	Explain Cost/Benefit Analysis.			
OFFIFE,	(d)	Explain elements of system.	OUT		
	(e)	Explain file structures and organization.		310x	
3.5	Attem	pt any three of the following:			15
P	(a)	Explain the characteristics of system in detail.			
	( <i>b</i> )	What is the role of a Systems Analyst? Explain.			
	(c)	Explain manmade information system in detail.			
	(d)	Explain input/output form design in detail.			
	(e)	Explain flow charts of any system.			
4.	Attem	pt any three of the following:			15
	(a)	Explain fact finding process and techniques.			
ξ <sup>γ</sup>	( <i>b</i> )	Explain basis for planning in system analysis.			

$\operatorname{WT}$		3	)			GK-06-2023
---------------------	--	---	---	--	--	------------

- (c) What are Gantt Charts? Explain in detail.
- (d) Explain Operational and Economic Feasibilities.
- (e) Explain an open and closed system in detail.
- 5. Write short notes of any three of the following:
  - (a) Data flow diagram
  - (b) IPO charts
  - (c) Pseudo codes
  - (d) Objectives of database design
  - (e) Decision tables.

# GK-14-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

# BCA (Third Year) (Fifth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS/Revised Pattern)

## COMPUTER APPLICATION

Paper AK-15

(Web Development and PHP Programming)

(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 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 features of PHP in brief.
- (b) Explain if-else statement in PHP.
- (c) Explain Constants in PHP.

WT ( 2 ) GK—14—2023

- (d) Explain database terms in MySQL.
- (e) Explain While Loop in PHP.
- (f) Discuss the concept of Constructor in PHP.
- (g) What is Overloading in PHP? Explain.
- 2. Attempt any three of the following (5 marks each):
  - (a) What is PHP? Explain how to add PHP script in web pages with example.
  - (b) Explain Expressions in PHP.
  - (c) Explain how to define a function and call a function in PHP with example.
  - (d) Explain any five MySQL commands in brief.
  - (e) Explain Connecting to MySQL and Selecting the Database using PHP-MySQL function.
- 3. Attempt any three of the following (5 marks each): 15
  - (a) Explain Implicit and Explicit Casting in PHP.
  - (b) Explain various data types in MySQL.
  - (c) Explain the use of Include() and Require() in PHP with example.
  - (d) Explain any five Date and Time Functions in PHP.
  - (e) Explain how to handle HTML Form data in PHP with example.

GK—14—202	2ء
	OIN-14-20

- 4. Attempt any three of the following (5 marks each):
  - (a) Explain data types in PHP.
  - (b) Explain the concept of Classes and Objects in PHP with example.
  - (c) Write a PHP program to create an array, insert elements into an array, access that elements from array and display it on web page.
  - (d) What is MySQL? Explain in brief.
  - (e) Explain any five array functions in PHP.
- 5. Write short notes of any three of the following (5 marks each): 15
  - (a) String functions in PHP
  - (b) Switch statement in PHP
  - (c) Inheritance in PHP
  - (d) Executing Simple Queries
  - (e) Comments in PHP.