VI-23-2024

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper-BCA-504B

(Cloud Computing)

(Tuesday, 3-12-2024)

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

Time—3 Hours

Maximum Marks—75

- N.B. := (i) Attempt all questions.
 - (ii) Figures to the right indicate full marks.
 - (iii) Assume suitable data, if necessary.
- 1. Answer the following (any five):

15

- (a) Explain the concept of retrospective.
- (b) Explain internet of services.
- (c) What is microsoft azure? Explain.
- (d) Explain big table.
- (e) Explain Dev 2.0 platforms.
- (f) Explain google app engine.
- (g) Explain Amazon EC2.

WT			VI—23—2024
2.	Answ	ver the following (any three):	15
	(a)	Explain mainframe architecture.	
	(b)	Explain SaaS Architecture.	
	(c)	Explain client server architecture.	
	(d)	Explain cloud computing in detail.	
	(e)	Explain 3-tier architecture with TP monitors.	
3.	Answ	ver the following (any three):	15
	(a)	Explain web application servers.	
	(b)	What is internet technology? Explain in detail.	
	(c)	Explain emergence of software as a service.	
	(d)	Explain web-enabled application.	
	(e)	Explain Dynamo.	
4.	Answ	ver the following (any three):	15
	(a)	Explain infrastructure as a service.	
	(b)	Explain platform as a service.	
	(c)	Differentiate between Soap and REST.	
	(d)	Explain mashups user interface service.	
	(e)	Explain data in cloud.	

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- 5. Write short notes on (any three):
 - (a) Hbase
 - (b) Web Services
 - (c) Ajax asynchronous rich interfaces.
 - (d) Rational database and cloud file systems.
 - (e) HDf.

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FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper-BCA-504A

(Computer Network)

(Tuesday, 3-12-2024)

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

15

- (a) LAN and WAN
- (b) Bluetooth
- (c) Microwave
- (d) Ring Topology
- (e) URL
- (f) DNS
- (g) What is Computer Network?

WT		(2)	VI—22—2024
2.	Atten	npt any three of the following (5 marks each):	15
	(a)	Explain OSI reference model.	
	(<i>b</i>)	Explain Traditional Cryptography in detail.	
	(c)	Explain IP address.	
	(d)	Explain Twisted pair cable in detail.	
	(e)	Explain Transposition Ciphers in detail.	
3.	Atten	npt any three of the following (5 marks each):	15
	(a)	Explain Intranet and Extranet in detail.	
	(b)	Explain TCP/IP reference model.	
	(c)	Explain Network Security issues in detail.	
	(<i>d</i>)	Explain Fiber optic cable in detail.	
	(e)	Explain Data Encryption Standard (DES).	
4.	Atten	npt any three of the following (5 marks each):	15
	(a)	Explain FTP and HTTP in detail.	
	(b)	What is Ethernet? Explain types of Ethernet.	
	(c)	Explain Internet Architected in detail.	
	(d)	What is Topology ? Explain Bus and Mesh topology	gy.
	(e)	Explain DHCP in detail.	

WT (3) VI—22—2024

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

- (a) Firewall.
- (b) Wireless LAN.
- (c) Radio Transmission.
- (d) Digital signature.
- (e) What is internet? Explain ISP.

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VI—28—2024

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper-BCA-503

(Mobile Application Development)

(Thursday, 05-12-2024)

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

15

- (a) Explain the Wi-Fi Connectivity.
- (b) Explain the Internal Storage.
- (c) Explain the Rotate Animation.
- (d) Explain the Playing Audio and Video.
- (e) Explain the Intents.
- (f) Explain the features of ART.
- (g) Explain the Resources.

WT				A (2)			V	I—28—2024
2.	Attem	pt any thr	ree of th	e followi	ng (5 1	marks)	each :		15
	(a)	Explain in	n detail	activity	life cy	cle.			
	(<i>b</i>)	Explain in	n detail	Android	Applic	cation S	Structure	е.	
	(c)	Explain in	n detail	working	with A	Android	lManifes	t.xml.	
	(d)	Explain in	n detail	services	to app	olication	n.,		
	(e)	Write an a	android	applicatio	on to di	isplay "	Hello Ar	idroid" m	essage wher
		click on b	utton.						
3.	Atten	pt any thr	ree of th	e followi	ng (5 1	marks)	each :		15
	(a)	Explain in	n detail	Buttons	contro	l with	example	5,	
	(b)	Explain in	n detail	Radio B	uttons	contro	l with e	xample.	
	(c)	Explain in	n detail	Dialog k	oox.				
	(d)	Explain in	n detail	Styles a	nd The	emes.			
	(e)	Write an	android	applicat	ion to	demon	strate o	n Toggle	Buttons.
4.	Atten	pt any thr	ree of th	e followi	ng:				15
	(a)	Explain in	n detail	Layouts					
	(b)	Explain in	n detail	System	Permis	sions.			
	(c)	Explain in	n detail	Intent F	ilters.				
	(d)	Explain in	n detail	creating	applic	ation t	emplate.		
	(e)	Explain in	n detail	Recycler	View	and L	ist View		

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- 5. Attempt any three of the following (5 marks each):
 - (a) Explain in detail Zoom Animation and Scale Animation.
 - (b) Explain in detail 2D and 3D graphics.
 - (c) Explain in detail Shared Preferences.
 - (d) Explain in detail SQLite Databases.
 - (e) Explain in detail Google maps.

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FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(CBCS/Revised Pattern)

COMPUTER APPLICATION

BCA-501 (SAAD)

(System Analysis and Design)

(Friday, 29-11-2024)

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 (3 marks each):

15

- (a) Explain Gantt charts.
- (b) Discuss characteristics of system.
- (c) Define system.
- (d) Explain technical feasibility.
- (e) Enlist objectives of database design.

WT (3) VI—11—2024

- (c) Explain Pseudo codes.
- (d) Explain elements of system.
- (e) Discuss HIPO charts.
- 5. Write short notes on any three of the following (5 marks each): 15
 - (a) Determining user's requirements and analysis.
 - (b) IPO charts.
 - (c) Physical view of data.
 - (d) Economic feasibilities.
 - (e) Physical and abstract system.

VI—18—2024

FACULTY OF COMPUTER SCIENCE AND TECHNOLOGY

BCA (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper-BCA-502

(Web Development and PHP Programming)

(Monday, 2-12-2024)

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 (3 marks each):

15

- (a) Array Functions.
- (b) String Functions.
- (c) Switch.
- (d) MySQL Commands.
- (e) PHP Objects.

WT			(2)		VI—18—202	24
	(<i>f</i>)	Multidim	ensional array.			
	(g)	Include() and Require().			
2.	Attem	pt any <i>th</i>	ree of the following (5 ma	rks each):	1947 854	5
	(a)	Explain 1	history and features of PH	iP.		
	(<i>b</i>)	Explain	Constants in PHP.			
	(c)	Explain	PHP expressions in detail.	97 1 1 1 1 P		
	(d)	Explain	Installation of PHP.			
	(e)	Explain	how to Execute Simple Qu	ieries ?		
3.	Attem	t pt any th	ree of the following (5 ma	rks each) :	4 1	5
	(a)	Explain :	if-esle statement with suit	able example	19kg - 2549,	
	(b)	Explain	how to Updating Records	with PHP.		
	(c)	Explain	Looping statements.			
	(<i>d</i>)	Explain	Implicit and Explicit casti	ng in PHP.		
	(e)	Explain	MySQL Commands.			
4.	Attem	pt any <i>th</i>	ree of the following (5 ma	rks each):	1	5
	(a)	Explain	Conditional statements.			
	(b)	Explain .	Arrays and its types.			
	(c)	Explain	Overloading.			

WT (3) VI—18—2024

- (d) Explain Constructor and Destructor.
- (e) Explain Object Methods.
- 5. Write short notes on any three of the following (5 marks each): 15
 - (a) Explain Data types in PHP.
 - (b) Explain PHP Functions.
 - (c) Explain Arrays.
 - (d) Explain Inheritance.
 - (e) Explain Date and Time Function.