GK-11-2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS Pattern)

COMPUTER APPLICATION

Paper S6.CC.1

(Advance Networking Concepts)

(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) Figures to the right indicate full marks.
 - (iii) Assume suitable data, if required.
- 1. Solve the following (any five):

15

- (a) What is a network? Explain the benefits of networking.
- (b) What is the use of a Network Interface Card?
- (c) Explain IP datagram.
- (d) Explain UDP protocol.
- (e) What is Email? Explain.

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()	What is a virtual LAN?	
()	g) Explain WAN.	Pala Labor
2. S	Solve the following (any two):	
(6	a) Explain the network architecture.	905, 2910,
	b) What is connection oriented and connectionless servi	ces ?
	Explain the TCP/IP reference model in detail.	
	Solve the following (any two):	
	(a) Explain the working of the router and switch.	ED), VOL
	Explain 10Base2 and 10Base5 Ethernet technology.	SOFT OF THE PROPERTY OF THE PR
Size OF	Explain wireless LAN. Solve the following (any two):	
	what are different types of ICMP messages?	
	b) Explain DHCP.	
5. 5	Solve the following (any two):	
	Explain the transport services primitives.	
	b) Explain the TCP Frame format.	
ELE MAN	What are the elements of transport protocols?	
	SELLE SPORT	
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WT		(3) GK—11—2023
6.	Solve	the following (any two):
	(a)	Explain the cryptography.
	(<i>b</i>)	What is the client-server model?
	(c)	Explain the concept of firewalls.
7.	Solve	the following (any two):

Explain VTP. (a)

- Explain VLAN configuration. (*b*)
- Explain trunking with ISL.

GK-35-2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS Pattern)

COMPUTER APPLICATION

(Data Mining and Data Warehousing)

(Saturday, 29-4-2023)

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 the concept of regression.
- (b) Describe database/OLTP systems.
- (c) Introduce data mining metrics.
- (d) Write a note on classification.

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WT				(3)		GK-35-2023	
6.	Atten	mpt any <i>tu</i>	o of the follo	wing:	The State of the S	10	
	(a)	Explain	Agglomerative	e algorithm.		SECIE BOTH	
	(<i>b</i>)	Explain 1	K-means clus	tering algorithms		in still but	Y
	(c)	Explain	RBICH.	Soft Si		SE S	
7.	Atten	npt any tu	o of the follo	wing:		10	Ç,
	(a)	Explain	Minimum Spa	anning Tree.	Day Street		
	(b)	Explain	Apriori Algori	ithm.			KE,
	(c)	Explain 1	Data Parallel	ism.			
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FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS Pattern)

COMPUTER APPLICATION

Paper S6.CC.5

(Enterprise Resource Planning) (ERP)

(Saturday, 29-4-2023)

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 DSS in detail.
- (b) Explain Data Management.
- (c) What is ERP Market?

(d) What is Data Mining? (e) Explain BPR in short. (f) What is JIT and Kanban? (g) Explain CTO in short. 2. Attempt any two of the following: (a) Describe the evolution of ERP. (b) Explain the introduction to ERP in detail. (c) Explain advantages of ERP in detail. 3. Attempt any two of the following: (a) Explain integrated management information. (b) Explain the Business Modelling in detail. (c) Explain Integrated Data Model. 4. Attempt any two of the following: (a) What is EIS? Explain. (b) Explain Supply Chain Management. (c) Explain Data Warehousing in detail. 5. Attempt any two of the following: (a) What is CAD/CAM? Explain in detail. (b) Explain Manufacturing Resource Planning. (c) Explain the MTO and MTS.			
 (e) Explain BPR in short. (f) What is JIT and Kanban? (g) Explain CTO in short. 2. Attempt any two of the following: (a) Describe the evolution of ERP. (b) Explain the introduction to ERP in detail. (c) Explain advantages of ERP in detail. 3. Attempt any two of the following: (a) Explain integrated management information. (b) Explain Integrated Data Model. 4. Attempt any two of the following: (a) What is EIS? Explain. (b) Explain Supply Chain Management. (c) Explain Data Warehousing in detail. 5. Attempt any two of the following: (a) What is CAD/CAM? Explain in detail. (b) Explain Manufacturing Resource Planning. 	WT		GK—36
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(b) Explain Manufacturing Resource Planning.	5.	Attempt any two of the following:	
		(a) What is CAD/CAM ? Explain in detail.	
(c) Explain the MTO and MTS.		(b) Explain Manufacturing Resource Planning.	
		(c) Explain the MTO and MTS.	
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6.	Attempt any two of the following:	10
	(a) What is Quality Management? Explain in detail.	
	(b) What is Materials Management? Explain in detail.	py St. Car
	(c) Explain concept of Finance in ERP Module.	
7.	Attempt any two of the following:	10
	(a) Explain the benefits of ERP.	
	(b) What is QAD? Explain in detail.	
	(c) Explain Oracle Corporation.	
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GK-34-2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS Pattern)

COMPUTER APPLICATION

(Mobile Communication)

(Saturday, 29-4-2023)

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) Draw neat labelled diagram wherever necessary.
- 1. Solve the following (any five):

15

- (a) Give the applications of mobile communication.
- (b) Explain the performance criteria of Cellular System.
- (c) Explain the motivational factors for specialized MAC.
- (d) Explain DECT.

WT		(2) GK	-34-202
	(e)	Explain IEEE 802.11.	
	(<i>f</i>)	Describe HIPERLAN.	20 Kg
	(g)	Explain Mobile IP.	-BFC)
2.	Solve	the following (any two):	
	(a)	Explain the Basic Cellular System of mobile communica	tion.
	(<i>b</i>)	Explain the Operation of Cellular System.	
	(c)	Explain working of Analog Cellular System.	
3.	Solve	the following (any two):	97 1
D)K	(a)	Explain the historical development of wireless communic	eation.
	(b)	Explain planning of a cellular system.	
DR.	(c)	Explain SDMA for mobile communication.	
4.	Solve	the following (any two):	1
	(a)	Explain the simplified reference model.	
	(b)	Explain FDMA for mobile communication.	
	(c)	Explain CDMA for mobile communication.	
5.	Solve	the following (any two):	1
	(a)	Give the differences between SDMA and FDMA.	
	(b)	Differentiate between TDMA and CDMA.	
0\Z	(c)	Write the comparative differences of Infrared and Radio Tr	ansmissio

WT	(3)	GK-34-2023

- 6. Solve the following (any two):
 - (a) Explain in detail GSM.
 - (b) Explain in detail TETRA.
 - (c) Explain working of Bluetooth technology in mobile communication.
- 7. Solve the following (any two):
 - (a) Explain Dynamic Configuration protocol in detail.
 - (b) Explain mobile ad-hoc networks in detail.
 - (c) Explain your view of market for mobile communication.

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GK-10-2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-602

(Python)

(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) 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 Python interpreter.
- (b) Discuss comments in Python.
- (c) Discuss sets in Python.
- (d) How do you define class in Python? Explain with example.

WT (3) GK—10—2023

- (b) Discuss the concept of List in Python.
- (c) Explain packages in Python.
- (d) Explain data types in Python.
- (e) Write a Python program to find the numbers which are divisible by 7 and multiple of 5 within the given range.
- 5. Write short notes of any three of the following (5 marks each): 15
 - (a) Getting input from user in Python
 - (b) Creating Checkbutton
 - (c) TKinter module
 - (d) Passing query to MySQL
 - (e) Operators in Python.

GK-02-2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-601

(Software Engineering)

(Tuesday, 18-4-2023)

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 software engineering? Explain.
- (b) Explain the software Myths.
- (c) Describe the activities of SDLC.

WT (3) GK—02—2023

- (c) Explain the elements of Data Dictionary.
- (d) What is Black Box Testing? Explain.
- (e) Explain with example the concept of Unit Testing.
- 5. Write short notes of any three of the following (5 marks each): 15
 - (a) Concurrent Models
 - (b) Validation
 - (c) Pseudo Code
 - (d) Input and Output Design
 - (e) White-Box Testing.

GK-17-2023

FACULTY OF SCIENCE AND TECHNOLOGY

BCA (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER APPLICATION

Paper BCA-604-A

(Windows Programming)

(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 .Net Technology ? Explain.
- (b) Explain the concept of Intellisense.
- (c) Explain TextBox control.

WT			GK-	-17—2023
	(<i>d</i>)	What is Array ? Explain.		
	(e)	What is ADO.Net? Explain.	OF CV.	
	(<i>f</i>)	What are Indexers ? Explain.		
	(g)	Describe Multicast Delegates in brief.		
2.	Attem	apt any three of the following (5 marks each):		15
	(a)	Explain .Net Framework in detail.		
	(b)	Describe in brief Common Language Runtime (CLR	6	
	(c)	What are the important classes used in Windows Appli	cation	? Explain.
	(d)	Describe in brief Checkbox and Radio Button contro	h.	
	(e)	Explain Dialog boxes in detail.		
3.	Attem	apt any three of the following (5 marks each):	S. A.	15
b	(a)	Explain the concept of call by value with example.		
	(b)	Describe Customs events in detail.		
	(c)	What are the advantages of ADO.NET ? Explain.		
	(d)	Explain the project types used in .Net.		
	(e)	Explain combobox control with example.		
4.	Attem	apt any three of the following (5 marks each):		15
	(a)	Describe in brief out parameter with example.		
	(b)	Explain in detail array list class.		

WT (3) GK—17—2023

- (c) What are Delegates? Explain with example.
- (d) Explain concept of disconnected data access through Dataset Objects.
- (e) Explain menus in windows application.
- 5. Write short notes of any three of the following (5 marks each): 15
 - (a) IDE components
 - (b) Label Control
 - (c) Jagged array
 - (d) Retrieving and Updating Data from Tables
 - (e) String Class.