GF-24-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Fifth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-504-B

(Basics of Linux)

(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 OS.
- (b) Explain history of Linux
- (c) Explain Unix.

- (c) Explain in detail Hardware Requirement for Linux.
- (d) Explain in detail File Processing Commands.
- (e) Explain in detail Input Mode.
- 5. Write short notes on any three of the following (5 marks each): 15
 - (a) login
 - (b) rc.sysinit & rc
 - (c) Remote Login
 - (d) Sending Files to Printer
 - (e) Distribution of Linux.

GF-32-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Third Year) (Fifth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

(Data Science)

(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 carry equal marks.
 - (ii) Figures to the right indicate full marks.
- 1. Attempt any five of the following:

15

- (a) Explain scalable and non-scalable data.
- (b) Explain descriptive and inferential statistics.
- (c) Explain data analysis and its Hypothesis techniques.
- (d) Explain predictive analysis and segmentation using clustering.
- (e) Explain importance of data science in future.
- (f) Explain project deployment tools.
- (g) Explain data computational techniques conventional and modern.

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	Attempt any three of the following:	15
	(a) Explain artificial intelligence.	00,00
	(b) Explain machine learning big data.	
	(c) Explain data scientist roles and responsibilities.	O.F.D
	(d) Explain data mining.	
	(e) Explain data warehousing.	
.	Attempt any three of the following:	15
	(a) Explain essential of algorithms and data structure.	
	(b) Explain use of statistics methods and technique.	
	(c) Write difference between data mining and data science.	
	(d) Explain regression.	
	(e) Explain data visualization.	
£139	Attempt any <i>three</i> of the following:	15
	(a) Explain data structure.	_0
	(b) Explain research methodology basics and importance.	
	(c) Explain research methodology basics and importance. (c) Explain optimization of data science.	
	(e) Explain software engineering trends and technique.	

-2023

- 5. Write short notes on any three of the following:
 - (a) Classification
 - (b) Big data fundamentals
 - (c) Parallel computing and algorithms
 - (d) Data acquisition and data science life cycle
 - (e) Experimentation.

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GF-15-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Third Year) (Fifth Semester) EXAMINATION APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper CS-502

(Python)

(Monday, 24-4-2023)

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

Time—Three Hours

Maximum Marks—75

- N.B. := (i) Attempt all questions.
 - (ii) Figures to the right indicate full marks.
- 1. Attempt any *five* of the following:

15

- (a) Explain the step of installing Python on windows.
- (b) Write a program in Python to find the sum of natural numbers.
- (c) Explain mathematical function with examples.
- (d) Write a program in Python to print the element of an array in reverse order.
- (e) Explain web using flask.
- (f) Write a Python program to convert a list to string method.
- (g) Explain error processing in Python.

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GF—15—2023

5. Write short notes on any three:

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- (a) Polymorphism
- (b) Correcting with database
- (c) OOPs
- (d) Exception Raising
- (e) Set.

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GF-23-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Third Year) (Fifth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

(Software Testing)

(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 concept of quality.
- (b) Explain software reliability.
- (c) Explain cost of quality.

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	(d)	Explain black box testing.		U.P. F.
	(e)	Explain validation testing.		
	(f)	Explain quality control.		
	(g)	Explain basic path testing.		
2.	Attem	pt any three of the following (5 marks each):	<i>,</i>	15
	(a)	Explain McCall's quality factors in detail.		
	(b)	Explain an overview of the Testing Process.	3P.2	
	(c)	Explain software review and its types.		ST. Co
	(d)	Explain control structural testing.		agiot
	(e)	Explain testing concepts for WebApps.		
3.	Attem	apt any three of the following (5 marks each):	90 P.	15
N. C.	(a)	Explain validation testing.		
	(b)	Explain internal and external views of testing.		
	(c)	Describe software quality assurance plan.		
	(d)	Explain navigation testing.		
OKIE	(e)	Explain targeted quality factors.		
4.	Attem	pt any three of the following (5 marks each):		15
	(a)	Explain a framework for product metrics.		
	(b)	Explain strategic approach to software testing.		

- (c) Explain formal technical reviews.
- (d) Explain system testing in detail.
- (e) Describe software testing fundamentals in detail.
- 5. Write short notes on any three of the following (5 marks each):
 - (a) Write a note on metrics for requirements mode.
 - (b) Write a note on art of debugging.
 - (c) Write a note on user interface testing.
 - (d) Write a note on ISO9126 quality factors.
 - (e) Write a note on content testing.

GF-06-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Fifth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper AF-06

(Windows Programming)

(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 (3 marks each):

15

- (a) Explain visual studio and IDE components in detail.
- (b) Explain intelligense in Visual Studio IDE.
- (c) Explain textbox and label control with properties.
- (d) Explain String class and its methods.
- (e) Explain properties in detail.
- (f) Explain finally block in detail.
- (g) Explain advantages of ADO.Net.

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2.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain Common Language Runtime (CLR) in detail.	
	(<i>b</i>)	Explain .Net architecture in detail.	
	(c)	Explain Listbox and Combobox controls.	
	(<i>d</i>)	Explain Array and Array List class.	
	(e)	Explain indexers with example.	
3.	Attem	apt any three of the following (5 marks each):	15
	(a)	What is interface? Explain creating and using interface	es.
	(b)	What is exception handling? Explain in detail.	2501
	(c)	Explain how to connect SQL Server using ADO.Net.	
5	(d)	Explain jagged array in detail.	
	(e)	Explain disconnected data access in detail.	153 P.
4.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain creating and using name spaces.	b ⁷
	(b)	Explain different types of dialog boxes in detail.	
	(c)	Explain Out parameter in detail.	
	(d)	Explain multicast delegates with example.	
	(e)	Explain how to retrieve and update data stored in data	base server.
5.	Write	short notes of any three of the following (5 marks each)	: 15
	(a)	Explain Common Type System (CTS).	
	(b)	Explain call by value in detail.	
	(c)	Explain different project types.	
	(d)	Explain differences between Java and C#.	
ST	(e)	Explain button, check boxes and radio button.	

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