# GF-20-2023

#### FACULTY OF COMPUTER STUDIES

# B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS Pattern)

# COMPUTER SCIENCE

Paper S6.CC.2

(Android Programming)

(Tuesday, 25-4-2023)

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

Time—Three Hours

Maximum Marks—75

- N.B. : (i) Figures to the right indicate full marks.
  - (ii) Assume suitable data, if required.
  - (iii) All questions are compulsory.
- 1. Attempt any *five* of the following:

15

- (a) Explain dialog activity.
- (b) Explain edit text control.
- (c) What is option menu?
- (d) Explain preference activity.
- (e) Explain drawable animation.

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	(f) What is activity?	
	(g) Explain toggle button.	OF STATE
2.	Attempt any two of the following:	10
		1981) OF
	(a) Explain installing android studio.	9KY 9817
	(b) Write a program to demonstrate push notification.	
	(c) Explain android stack.	2601 DIE.
3.	Attempt any two of the following:	10
	(a) Explain localization with example.	
	(b) Explain activity life cycle.	
	(c) Explain android operating system features.	
4.	Attempt any two of the following:	10
	(a) What is shared preference ?	
	(b) Explain status bar notification.	
£9.50	(c) Write a short note on intents.	
5.	Attempt any two of the following:	10
Sport	(a) Write a program to demonstrate alert dialog.	
	(b) What is pending intent? Explain with example.	
	(c) Explain using GPS to find current location.	
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6. A	ttempt any two of the following:	10
(a	Explain SQLite database.	
( <i>b</i>	Explain button control with example.	agily 24cr 3kg
(c)	Explain context menu with example.	the state of the s
7. A	ttempt any two of the following:	10 0
(a	Explain android application structure.	Part Faller
( <i>b</i>	Explain publishing android application.	Cally Sold
(c	Explain android manifest.xml file.	Cen Centre
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And Vice	Cologo, Cologo Bagan Baratra	
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# GF-11-2023

#### FACULTY OF SCIENCE AND TECHNOLOGY

#### B.Sc. (CS) (Sixth Semester) EXAMINATION

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

(CBCS Pattern)

#### COMPUTER SCIENCE

(Cloud Computing)

(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) Write a short note on client server architecture.
- (b) Write a short note on Dev 2.0 platform.
- (c) Write a short note on Microsoft Azure.
- (d) Write a short note on SOAP services.
- (e) Write a short note on Big Table.
- (f) Write a short note on REST service.
- (g) Write a short note on parallel computing.

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2.	Attem	pt any <i>two</i> of the following:		10
	(a)	Explain Mainframe architecture.		
	( <i>b</i> )	Explain Successful SaaS architecture.		
	(c)	Explain platform as a service.		
3.	Attem	pt any <i>two</i> of the following:		10
	(a)	Explain web services SOAP and REST.		
	( <i>b</i> )	Explain AJAX; asynchronous 'rich' interface.		
	(c)	Explain cloud file system : GFS and HDFS.		
4.	Attem	pt any <i>two</i> of the following:		10
	(a)	Define MapReduce model.		
	( <i>b</i> )	Explain HBase and Dynamo.	(2)	
	(c)	Explain Relational database.		
5.	Attem	pt any <i>two</i> of the following:		10
	(a)	Explain Internet of services.		
	(b)	Explain 3-tier architecture with TP monitor.		
	(c)	Explain Infrastructure as a service : Amezon EC2.		
6.	Attem	pt any two of the following:		10
	(a)	Explain Mashups: user interface services.		
	<i>(b)</i>	Explain cloud data store.		
	(c)	Explain parallel efficiency of MapReduce.		
7.	Attem	pt any $two$ of the following:		10
	(a)	Explain Internet technology and web-enabled applica	ations	
	(b)	Explain web application servers.		
	(c)	Define cloud computing with example.		

#### GF-36-2023

#### FACULTY OF SCIENCE AND TECHNOLOGY

# B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS Pattern)

COMPUTER SCIENCE

Paper S6.CC.5

(Cyber Security)

(Saturday, 29-4-2023)

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

Time—Three Hours

Maximum Marks—75

- N.B. := (i) Attempt all questions.
  - (ii) All questions carry equal marks.
- 1. Attempt the following (any five):

15

- (a) Explain the need of cyber security.
- (b) What is Cryptography?
- (c) Explain the concept of Digital Signature.
- (d) Explain the concept of Reverse Hijacking.
- (e) What is tampering in Cyber Crime?
- (f) Give some example of Symmetric Cryptography.
- (g) Explain with example the concept of Hacking.

WT			GF—36—2023
2.	Atten	apt any three of the following:	15
	(a)	Describe the scope of the Act.	
	( <i>b</i> )	Explain the concept of Meta tags.	
	(c)	Explain Asymmetric Cryptography.	about the same of
	(d)	Explain the concept of Framing.	
	(e)	Discuss the applications of the Public Key Encryptio	n. Film Dolf
3.	Atten	apt any three of the following:	15
	(a)	What are the steps of RSA algorithm? Explain.	
	(b)	Discuss the technology behind Digital Signature.	Sc. Doll
	(c)	Explain the composition of Appellate Tribunal.	
DE	(d)	Explain the steps in verifying a Digital Signature.	
	(e)	Which information leads to make a Obscene for Publishin	g it in Electronic
		Form ?	
4.	Atten	apt any three of the following:	15
	(a)	Explain how does symmetric cryptography work?	
	(b)	Discuss the cyber crimes related with tampering with	n Documents.
	(c)	What is PKI in Digital Signature ? Explain.	
	(d)	Discuss the laws related with digital signature.	
	(e)	Discuss the powers of Adjudicating officer to impose	penalty.

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- 5. Write short notes of any three of the following:
  - (a) Hacking
  - (b) Offences: Breach of Confidentiality and Privacy
  - (c) Cyber squatting
  - (d) Components of Public Key Encryption
  - (e) Cyber Crime.

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# GF-35-2023

# FACULTY OF SCIENCE AND TECHNOLOGY

#### B.Sc. (CS) (Sixth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS Pattern)

#### COMPUTER SCIENCE

Paper AF-41

(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) Write a note on clustering.

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	(d)	Write a note on Outliers.	
	(e)	What is Point Estimation ? Explain.	30/10
	( <i>f</i> )	Describe the concept of Association Rules.	. (ĉ
	(g)	What is Hypothesis Testing?	
2.	Atter	mpt any two of the following:	10
	(a)	What is social implication of data mining? Explain in detail.	
	(b)	Explain time series analysis with example.	
	(c)	Differentiate data mining Vs. knowledge discovery in database	es.
3.	Atter	mpt any two of the following:	10
	(a)	Write a short note on OLAP.	
	(b)	Explain KDD process in detail.	
	(c)	Write a detailed note on information retrieval.	
4.	Atter	mpt any two of the following:	10
	(a)	Explain statistical perspective on Data Mining.	
	(b)	Explain Bayes' theorem.	
	(c)	Explain about neural networks in detail.	
5.	Atter	mpt any two of the following:	10
	(a)	Explain NN supervised learning in detail.	
	(b)	Explain about Bayesian classification.	
	(c)	Explain about Perceptron.	
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6.	Attempt any two of the	following:			OF.	10

- (a) Describe in detail the concept of Divisive Clustering
  - (b) Explain BRICH in detail.
  - (c) Explain minimum spanning tree.
- 7. Attempt any two of the following:
  - (a) Explain Sampling Algorithm in detail.
  - (b) What is Partitioning? Explain.
  - (c) Explain Data Parallelism.

# GF-28-2023

#### FACULTY OF SCIENCE AND TECHNOLOGY

#### B.Sc. (CS) (Sixth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS Pattern)

#### COMPUTER SCIENCE

(Digital Image Processing)

(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) 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 advantages and disadvantages of MATLAB.
- (b) Explain Image types.
- (c) Explain any two fundamental steps in DIP.

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6.	Attempt any two of the following:				10

- (a) Explain Restoration Techniques.
- (b) Explain HSV images and restoration.
- (c) Explain model of image Degradation process.
- 7. Attempt any two of the following:
  - (a) Explain the basics of color image representation.
  - (b) Explain non-linear spatial filtering.
  - (c) Explain elements of digital image processing system.

GF-28-2023

# GF-10-2023

# FACULTY OF SCIENCE AND TECHNOLOGY

# B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS/Revised Course)

#### COMPUTER SCIENCE

Paper BCS-602

(Fundamentals of Image Processing)

(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 carry equal marks.
  - (ii) Assume suitable data, if necessary.
- 1. Attempt any *five* of the following:

15

- (a) Explain applications of image processing.
- (b) Explain brightness in digital image processing.
- (c) Explain model of image degradation and restoration process.
- (d) What is MATLAB operator? Explain it.
- (e) How Reading, displaying and writing of images?
- (f) Explain multidimensional array.
- (g) What is Digital image processing? Explain it.

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2.	Attem	apt any three of the following:	15
	(a)	Explain basic intensity transformation function using imadust.	
	( <i>b</i> )	Explain histogram and its types.	
	(c)	Explain advantages and disadvantages of MATLAB.	
	(d)	How to representating digital images in computer? Explain it.	
	(e)	Explain using MatLabScratch pad.	
3.	Attem	apt any three of the following:	15
	(a)	Explain color models and color spaces.	OF
	(b)	Explain fundamentals of filtering.	
	(c)	Explain Geometric transformation function in image restoration.	
	(d)	Explain elements of Visual Perception, Brightness, Discrimination	and
		Adaptation.	
	(e)	Explain RGB color model in image processing.	
4.	Attem	apt any three of the following:	15
	(a)	Explain MATLAB environment in detail.	
	(b)	Explain histogram equalization.	
	(c)	What is data class in digital image representation?	
	(d)	Explain matrix representation in digital image representation.	
	(e)	What is image and its types?	

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- 5. Write short notes on any three of the following:
  - (a) Fundamental steps in digital image processing
  - (b) Components of image processing system
  - (c) Neighbourhood
  - (d) CMY color model
  - (e) Scratch pad.

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#### GF-19-2023

#### FACULTY OF SCIENCE AND TECHNOLOGY

#### B.Sc. (CS) (Sixth Semester) EXAMINATION

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

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper AF-21

(Linux Administration)

(Monday, 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) Explain Boot loader in brief.
- (b) Explain how to change user information.
- (c) Explain various runlevels in Linux.
- (d) Explain chkconfig in brief.
- (e) Explain backup commands with syntax and example.
- (f) Explain communication commands.
- (g) Explain NFS in brief.

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2.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain features of Linux.	
	( <i>b</i> )	Explain various text editors in Linux.	
	(c)	Explain various printing commands with syntax and example.	
	(d)	Explain linux file/directory structure.	7
	(e)	Explain how to perform system maintenance.	
3.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain how to manage users in detail.	
	(b)	Explain installation steps of Linux.	
	(c)	Explain concept of permissions in detail.	
	(d)	Explain any five administrative commands with syntax and example	ple.
	(e)	Explain network printer configuration in brief.	
4.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain concept of DHCP.	
2 Th	(b)	Explain backup strategies and operations in Linux.	
	(c)	Explain booting process of Linux.	
	( <i>d</i> )	Explain logging into and working with Linux.	
DE	(e)	Explain network configuration tools.	
5.	Write	short notes on any three of the following (5 marks each):	15
A.	(a)	Disadvantages of Linux OS	
159°	(b)	Apache web server	
	(c)	DNS	
	(d)	Start and stop services manually	
	(e)	Backup medias.	
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#### GF-02-2023

# FACULTY OF SCIENCE AND TECHNOLOGY

#### B.Sc. (CS) (Sixth Semester) EXAMINATION

#### APRIL/MAY, 2023

(CBCS/Revised Pattern)

#### COMPUTER SCIENCE

Paper AF-02

(Mobile Application Development)

(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 Android Operating System? Write its features and versions.
- (b) Write a note on Android applications structure.
- (c) Explain Activity life cycle of Android.
- (d) Explain Button control.
- (e) Explain Localization in Android.
- (f) Write a note on Shared preferences.
- (g) Explain Toast notifications in Android.

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2.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain in detail Android Development Tools.	
	( <i>b</i> )	Write down the Android Installation Steps.	\$1065 ×
	(c)	Write a program to display "I am Android" on AVD.	S. S.
	( <i>d</i> )	Explain Android Development Framework.	Oliv
	(e)	Explain Android Stack.	
3.	Attem	apt any three of the following (5 marks each):	15
	(a)	What are fragments in android? Explain with example.	18 T
	(b)	Explain Implicit intents and Explicit intents in detail.	
	(c)	Explain Time Picker View and Date Picker View.	
	(d)	Explain any two Text Control with example.	
	(e)	Explain Web View in detail.	120ED
4.	Attem	apt any three of the following (5 marks each):	15
	(a)	Write a simple code for Alert dialog box.	
	(b)	Explain Option menu and Context menu in detail.	
	(c)	Write a note on displaying Maps.	
	(d)	Write a simple code for access data from SQLite database.	
	(e)	Explain List View in detail.	
5.	Write	short notes of any three of the following (5 marks each):	15
	(a)	Explain any three Android Versions.	
	(b)	How to publish android app on Android Market?	
	(c)	What is the use of Android Manifest.xml file?	
1907	(d)	Explain Toggle button with its attribute.	
	(e)	Explain displaying Maps.	

#### GF-33-2023

#### FACULTY OF SCIENCE AND TECHNOLOGY

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

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-403

(Relational Database Management System)

(Friday, 28-4-2023)

Time: 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

- N.B. := (i) All questions carry equal marks.
  - (ii) Figures to the write indicate full marks.
  - (iii) Assume suitable data, if necessary.
- 1. Attempt any five of the following:

15

- (a) Explain need of join in sql.
- (b) Explain various DML commands used in SQL.
- (c) Explain concept of relations in RDBMS.
- (d) Explain the concept of single row conversion.
- (e) Explain advantages and disadvantages of RDBMS.
- (f) Explain various logical operators used in SQL.
- (g) What is trigger?

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- 5. Write short notes on any three of the following:
  - (a) ORDER BY Clause
  - (b) Exception handling in PL/SQL
  - (c) Single Row functions
  - (d) Outer join
  - (e) Entities.

GF-33-2023

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# GF-03/GK-03-2023

# FACULTY OF COMPUTER STUDIES

#### **B.Sc.** (Sixth Semester) EXAMINATION

# **APRIL/MAY, 2023**

(CBCS Pattern)

#### COMPUTER SCIENCE

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

15

- (a) Explain any software myths.
- (b) Explain personal software process.
- (c) Explain framework activities.
- (d) Explain product and process.
- (e) Define software engineering.

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	( <i>f</i> )	What is an angile process?	Sh.		
	(g)	Explain essence of practice.			
2.	Atte	mpt any two of the following:			10
	(a)	Explain waterfall model.	Sile lo		
	( <i>b</i> )	Explain software characteristics.			
	(c)	Explain rapid action development.		RAFIA.	
3.	Atte	mpt any two of the following:			10
	(a)	Explain software evolution.		SOFE	
A.S.	(b)	Explain spiral model.		3744	
	(c)	Explain software engineering a layered t	echnolog	y.	
4.	Atte	mpt any two of the following:		Tillo,	10
	(a)	Explain feature driven development.			
	(b)	Explain team software process (TSP).			
	(c)	Explain process technology.	~		
5.00	Atte	mpt any two of the following:			10
	(a)	Explain planning process.			
KID SA	(b)	Explain DSDM.			
	(c)	Explain extreme programming.			
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	N. P. P.				
		STAR SERVICE			
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- 6. Attempt any *two* of the following:
  - (a) Explain system modeling.
  - (b) Explain system Engineering Hierarchy.
  - (c) Explain requirement modeling.
- 7. Attempt any two of the following:
  - (a) Explain core principles of software engineering practices.
  - (b) Explain communication practices.
  - (c) Explain system simulation.

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# GF-18-2023

#### FACULTY OF SCIENCE AND TECHNOLOGY

# B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION

### APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-604-A

(Software Process Management)

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

15

- (a) Explain the evolving role of software.
- (b) Explain management myths.
- (c) Distinguish between process and product.
- (d) Describe the application of software in multimedia.
- (e) What is software engineering? Explain its key elements.

WT		( 2 ) GF	<u>'—18</u>	-2023
	( <i>f</i> )	What is Prototyping?	A TIP	
	(g)	Explain the concept of direct and indirect measurement.		32 P. D
2.	Attem	npt any three of the following:		15
	(a)	Explain the types of process flow.		
	( <i>b</i> )	Explain the spiral model.		y Ż
	(c)	Explain function oriented metrices.		
	(d)	Explain the phases of linear sequential model.		
	(e)	Explain software maturity framework terminologies.		
3.	Attem	npt any three of the following:		15
	(a)	Explain umbrella activities in software process framewor	k.	
2 AJD	(b)	How to define the framework activity ?		
	(c)	Explain the phases of personal software process.		
	(d)	Describe the generic development activities in software	are p	rocess
		framework.		
	(e)	Explain the concept of milestone in software process fram	newo	rk.
4.	Attem	npt any three of the following:		15
	(a)	What is process tracking and control?		
	(b)	Explain the activities to be carried out in initial phase o process.	f defi	ning a

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- (c) Explain the process of defect removal.
- (d) Describe the matrices for software quality.
- (e) Describe the principles of software process change.
- 5. Write short notes on any *three* of the following:
  - (a) Customer and practitioners myths
  - (b) Component based development
  - (c) Software maturity
  - (d) Size oriented metrics
  - (e) Framework Activity.

# GF-34-2023

# FACULTY OF SCIENCE AND TECHNOLOGY

# B.Sc. (CS) (Sixth Semester) EXAMINATION

# **APRIL/MAY, 2023**

# COMPUTER SCIENCE

(Software Testing)

(Sa	turday	, 29-4-2023)	Time: 10.00 a.m. to 1.00 p.m.
Tin	ne—Thr	ee Hours	Maximum Marks—75
	Atten	npt any five :	15 and 15
	(a)	Define the terms quality and cost of	quality.
	(b) (c)	Define quality assurance.	, Strip, Bolth
	(c)	Explain reliability of software.	AND EST
	(d)	Enlist and explain the types of secur	ity testing.
	(e)	Enlist and explain the targeted quali	ty form.
SE	(f)	Explain the types of software review.	
	(g)	What are the phases of validation tes	sting process ?
2.	Atten	npt any two:	10
	(a)	What are the McCall's software quali	ity factors ?

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6.	Attempt any two:	10
	(a) Explain security testing.	
		State Class Shr
	(b) Explain content testing.	Style Style Cigo
	(c) What are testing concept for web apps?	Styl Styl Cle
7.	Attempt any two:	10,00
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	(b) What are the metrics for testing?	Strain Strain Solder
	(c) Explain matrices for requirement mode.	OD Str.
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