PD-08-2024

FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. (Third Year) (Sixth Semester) EXAMINATION MARCH/APRIL, 2024

(Revised/CBCS Pattern)

COMPUTER SCIENCE

(Fundamentals of Image Processing) (Friday, 04-04-2024) Time: 10.00 a.m. to 1.00 p.m. Maximum Marks—75 Time—3 Hours N.B. := (1) All questions carry equal marks. (2)Figures to the right indicate full marks. Attempt any five of the following: 15 What are color fundamentals? (a) Explain applications of image processing. (b) Explain Data Class. (c)

(e) Explain background.

(*d*)

(f) Explain model of image degradation and restoration process.

Explain fundamental steps in digital image processing.

(g) Explain pseudo color image processing.

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2.	Attem	pt any t	hree of the following:	15
	(a)	Explain	RGB color model.	
	(<i>b</i>)	Explain	fundamental of filtering.	
	(c)	Explain	introduction to M function programming.	
	(d)	Explain	image types.	
	(e)	Explain	matrix representation.	
3.	Attem	pt any t	hree of the following:	15
	(a)	Explain	components of an image processing system.	
	<i>(b)</i>	Explain	basic of full color image processing.	
	(c)	Explain	Histogram processing and its function plotting	ng.
	(d)	Explain	CMY color model in image processing.	
	(e)	Explain	noise models in image restoration.	
4.	Attem	pt any t	hree of the following:	15
	(a)	Explain	variables and arrays.	
	(b)	Explain	linear spatial filtering.	
	(c)	Explain	histogram equalization.	
	(d)	Explain	non-linear spatial filtering.	
	(e)	Explain	introduction to digital image processing.	

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- 5. Write short notes on any three of the following:
 - (a) Image registration
 - (b) HSV color model
 - (c) Scalar and array operation
 - (d) Multidimensional array
 - (e) Color spaces.

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PD-16-2024

FACULTY OF SCIENCE AND TECHNOLOGY

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

MARCH/APRIL, 2024

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper AF-21

(Linux Administration)

(Saturday, 6-4-2024)

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 managing groups in Linux.
- (b) Explain DNS.
- (c) Explain Scheduling tasks.

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	(d)	Explain priority scheduling in brief.	
	(e)	Explain NTSYSV in brief.	
	(<i>f</i>)	Explain Kill and Killall command with syntax and	example.
	(g)	Explain printing commands with syntax and examp	ole.
2.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain installation steps of Linux OS.	
	(<i>b</i>)	Explain how to boot linux into default run level.	
	(c)	Explain managing user accounts in Linux.	
	(d)	What are consol based monitoring tools?	
	(e)	Explain advantages of Linux.	
3.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain dynamic host configuration protocol.	
	(b) A	Explain backup software in Linux.	
	(c)	Explain advanced wireless networking.	
	(d)	Explain telnet server in brief.	
	(e)	Explain KDE process and system monitoring tools.	
4.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain starting and stopping apache web server.	
	(b)	Explain concept of samba in detail.	

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- (c) Explain setting up SSH server.
- (d) Explain backup strategies.
- (e) Explain various backup media.
- 5. Write short notes on any three of the following (5 marks each): 15
 - (a) Managing password
 - (b) Granting system administrative privileges to regular user
 - (c) Configuration of local printer
 - (d) Disadvantages of Linux
 - (e) Network configuration tools.

PD-02-2024

FACULTY OF SCIENCE & TECHNOLOGY

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

MARCH/APRIL, 2024

(Revised/CBCS Pattern)

COMPUTER SCIENCE

(BCS-601)

(Mobile Application Development)

Tuesday, 02-04-2024)

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

Time—3 Hours

Maximum Marks—75

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

15

- (a) Explain procedure for adding activity.
- (b) What is use of Android operating system?
- (c) Explain android stack in detail.
- (d) Explain button control in detail.
- (e) Discuss alert dialog box in detail.
- (f) Explain features of android operating system.
- (g) Explain shared preferences in detail.

	WT	PD—02—2024
	2.	Attempt any three of the following:
		(a) What are the basic components of android?
		(b) Explain in detail android development tools.
	EV.	(c) Explain procedure to create application template.
	9	(d) Explain steps to install android.
5		A A A
2		(e) Explain the different operating systems used on mobile devices.
A	3.	Attempt any three of the following:
7	3	Tittempt any three of the following.
1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(a) Explain structure of android application.
S.V.		
		(b) Explain fragments in android.
0,	Ĉ	(c) What is use of AndroidMainfest.xml?
Y	3	
		(d) Explain time picker and date picker view.
No.		(e) Explain web view in detail.
	á	
	4.	Attempt any three of the following:
	ET .	(a) What is use of option menu and context menu?
		(a) What is use of option mend and context mend:
3		(b) Explain intents and intents filter.
2		(a) The later are a stiffed life and a
X	(Q)	(c) Explain an activity life-cycle.
Ó	6	(d) Explain SQLite database.
		(e) Explain localization in detail.
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- 5. Write short notes on any *three* of the following:
 - (a) Android versions
 - (b) Style and themes
 - (c) Displaying map
 - (d) Toggle Button
 - (e) Publishing application.

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FACULTY OF COMPUTER SCIENCE

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

MARCH/APRIL, 2024

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper BCS-604A

(Software Process Management)

(Saturday, 6-4-2024)

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 (3 marks each) :

15

- (a) Explain Software Application Domain.
- (b) Explain Process Pattern in short.
- (c) Explain Defect Removal Efficiency in Software Engineering.
- (d) Explain Process Assessment in detail.
- (e) Explain Specialized Process Model.
- (f) What is Process Metrics?
- (g) What is Software Process Maturity?

WT		(2) PD—15—	-2024
2.	Attem	apt any three of the following (5 marks each):	15
	(a)	Explain Evolutionary Process Model in detail.	
	(<i>b</i>)	Explain Prototype Model.	
	(c)	What is Aspect Oriented Software Development?	
	(d)	Discuss the Formal Method Model in detail.	
	(e)	Explain Waterfall Model in detail.	
3.	Attem	apt any three of the following (5 marks each):	15
	(a)	What are the different software myths and their facts?	
	(b)	Explain the Optimizing Process in detail.	
	(c)	Explain Personal Software Process (PSP) in detail.	
	(d)	Explain the Repeatable process of Software Process Maturity.	
	(e)	Explain the Initial Process of Software Process Maturity.	
4.	Attem	apt any three of the following (5 marks each):	15
	(a)	What is defined process?	
	(b)	Explain CMM.	
	(c)	Explain Team Software Process (TSP).	
	(d)	Explain PCMM.	
	(e)	Explain the Evolving Role of Software.	

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- 5. Write short notes on any three of the following (5 marks each): 15
 - (a) Explain the principle of Software Process Change.
 - (b) Explain CMMI.
 - (c) Explain a Generic Process Model in detail.
 - (d) Explain the Metrics for Software Quality.
 - (e) Explain Software Measurement in detail.