Total No.	of Questions : 12] SEAT No. :
P2343	[Total No. of Pages: 2] [5156] - 52
	[5156] - 52
	TYMCA (Engineering Faculty)
	Computer Graphics
	(2008 Pattern) (Semester-V)
Time: 31	
Instruction	ons to the candidates:
1) ·	Answers to the two sections should be written in separate books.
2)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 from section I & Q7 or Q8, Q9 or Q10, Q11
3)	or Q12 from section II.
4)	Neat diagrams should be drawn wherever necessary. Figures to the right indicate full marks.
5)	Assume suitable data, if necessary.
	Service of the servic
	SECTION I
Q 1) a)	SECTION - I Explain Bresenham's Circle drawing algorithm. [6]
b)	
	Explain the concept of anti aliasing and explain how it works [6]
Q2) a)	Explain the working of [6]
22) u)	i) Touch panels &
	ii) Track ball devices
b)	Differentiate between the starburst method and bitmap method in 2
	column format.
Q3) a)	Explain the scan conversion algorithm of polygon filling. [6]
b)	Emploin the house of the control of
	OR OR
Q4) a)	Explain the application of scaling and translation transformations on
~ /	matanala
b)	Evaluit filling of a salara with
	Explain filling of a polygon with a pattern. [6]
Q5) a)	Explain the operations that you can do on a segment table. [5]
b)	Explain the Operations that you can do on a segment table. [5] Explain the Cohen-Sutherland algorithm for line clipping with figure. [6]
	OR
Q6) a)	Explain the image transformation on a rectangle done using segment
~ /	toblo
b)	Explain with figure the Sutherland Hodgman algorithm algorithm. [6]
	1 Sand the Sandriand Houghan algorithm algorithm.[6]

	SECTION - H	
Q7) a)	Explain application on a rectangle of:	[6]
	i) Parallel projection	
	ii) Perspective projection.	
b		
	Obtain the 3D transformation matrix for scaling about an arbitrary	axis.
		[6]
0.0)	OR	
Q8) a)		[6]
b)	Apply 3-Dimensional transformation matrices on a rectangle for:	[6]
	i) Translation	[o]
	ii) Scaling	
00)	Dusting all 11	
Q9) a)	Explain warnock's algorithm for hidden surfaces.	[6]
b)	Differentiate between diffuse & point-source illumination.	[6]
	OR	
Q10) a	Explain painters algorithm.	[6]
1	b) Write short notes on:	N THE RESERVE
	i) Reflections.	[6]
	ii) Shading algorithms.	
(The Strading digorithms.	
011)	Wild	
Q11) a	What are the properties of B-Spline curve? Describe the procedur	e to
	generate B-Spline curve.	[6]
b	Explain frame by frame animation.	[5]
	OR	[c]
Q12) a) What is fractal surface? Explain fractal generation in detail.	[6]
t	Explain any 2 basic primitives of GKS	[6]
	y — Table brilliances of GRS	[5]
	Explain any 2 basic primitives of GKS	2
	***	\$
	6.	
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	Section of the sectio	
[5156]-	52	
	What is fractal surface? Explain fractal generation in detail. Explain any 2 basic primitives of GKS	
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Q2) a) Q6) a) Q5) a) Q4) a) Q3) a) Q1) a) Instructions to the candidates: Time: 3 Hours Total No. of Questions: 12] 6 6) 6 Explain the basic steps in query processing with suitable diagram. [5] Explain block nested loop join algorithm with its cost estimation. [6] Explain type and table inheritance with suitable example Explain pipelined parallelism and independent parallelism with Assume suitable data, if necessary. Explain object identity and reference with suitable example. Explain the following terms: Answers to the two sections should be written in separate books. Describe array and nested table with suitable example. What is need of distributed database systems? Explain advantages & Neat diagrams must be drawn wherever necessary Explain persistent programming languages. Explain persistence in C++.[6] example. Describe any two parallel database architectures in detail with suitable Explain materialized and pipelined evaluation with suitable example.[6] Describe Linear Search Algorithm for selection operation diagrains disadvantages of distributed database systems. Fragmentation. Heterogeneous Distributed Database Replication Advanced Databases TYMCA (Engg) (2008 Course) SECTION - I [5156] - 53 May 2017 SEAT No.: [Total No. of Pages: 2 [Max. Marks: 70 [6] 6 5

> Q7) a) Explain star schema for the multidimensional databases in detail with suitable diagram. SECTION - II

5 What is data warehouse? Explain its applications with suitable examples.

OR

Q8) a) operations with suitable diagram and example. What are the different OLAP operations? Explain any two OLAP

6) "Data warehouse support to decision support system". Justify with suitable example.

Q9) a) mining and its applications in detail with suitable example What do you mean by market basket analysis? Explain association rule

5 different applications of clustering. What as clustering? What are different clustering techniques? Explain

QII) Explain the following terms:

a) Synonym
b) Web Crawler
c) Precision
d) Recall

Explain charges Q10) a) What is classification? Explain Bayesian classification with suitable [6]

[6]

[12]

OR

Q12) a) Explain characteristics and architecture of web search engines.

b) Explain in detail popularity ranking.

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P.T.O.

	b)	Q6) a)	6)		Q5) a)	6)	Q4) a)	b)	Q3) a)	6)	Q2) a)	. б)	QI) a)			4)	2)	Instruct	Time: 3 Hours				P2346	Total N
P.T.O.	What is Test case and Test suit? Explain it in detail. [6]	Explain different type of defects. What is defect repository? Also explain how defect repository provides support to developer/tester. [6]	Explain organization structure for testing teams. [4] OR	Steps. [8]	are the steps involved in preparation of tes	Explain Goal Question Metric paradigm. [3]	Explain object oriented metrics in detail. [8]	Differentiate time and space complexity. [3]	ice.	Explain four principles of investigation. [4]	What is data? Explain how to collect, store and extract data. [8]	b) Explain representation theory of measurement. [4] OR	What is software measurement? Explain its classification in detail. [8]	SECTION-1	199	Assume suitable data if necessary.	Answer's questions from section-I and 3 questions from section-II. Answers to the two sections should be written in separate books.	Instructions to the candidates: 10	(2008 Pattern) (Semester-V) (Elective	Software Testing	Third Year M.C.A. (Engineering Faculty)	[5156] - 55	May - 17	Total No. of Questions: 12] SEAT No.:
[5156]-55 2 2 10.2/2.1.		++++ C&	ii) Best Practices for software maintenance.	i) Challenges in software maintenance.	b) Write short note on:	Q12) a) Explain the different tools and repositories present in problem repositories.		resolution? b) Explain Testing the shipment unit	QII) a) What are the challenges and best practices encountered in pro-	ii) Specification based testing	i) Integration Testing	Q10) a) Explain the need of adhoc testing? b) Write short note on:	. y	b) What's domain testing? Explain its use.	Validation Testing		o) Explain unrelein. Spes of static analysis tools.		Q8) a) Distinguish between White Box testing and Black box Testing.	W. GOR	b) What is meant by testing defects? Explain it in detail	Q7) a) Explain the need of test plan in software testing.		SECTION. IN

	Tasting Co.
	alidation Testing
[6]	hort note on :
[6]	different types of static analysis tools.
[6]	of structural testing?
ng. What	uish between White Box testing and Black box Testing. What
	A GOR
[7]	s meant by testing defects? Explain it in detail
[5]	n the need of test plan in software testing.
	100
	SECTION-II

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[6]

and best practices encountered in problem

ment unit. OR

s and repositories present in problem reporting
[6]

	b)								5) a)	0	4) a)		-	3) a)		-	2) ;		-	(I) a)			ISTr	ime	,	_		P2374	Total
											0		6)	0	3	6	a)		b)	٥		2)	ictio	: 3 h)at		74	No.
	Write note on outlier.	5	4	w	2	1	TID	rules from s	A database	Explain KD	What is data		What are m	Explain diff		Explain any	What is dat	889	Explain star	Why data n	20	Neat diagram Assume suit	nstructions to the candidates:	ime: 3 Hours	(2013 Pattern) (Semester I)	a Wareho			Total No. of Questions: 12]
	n outlier.					sha	7/2	upport and c	has five tran	D process w	mining? Ex		ajor issues w	erence between		two OLAP	a warehouse		schema wit	eed to be pro	00	Neat diagrams must be drawn whereve	didates:	83	(2013 1	I.I.I	17 T	7	
31021218	aO	bread, milk butter	shampoo, soap	soap, milk, toothpaste	bread, mil	shampoo, toothpaste, bread, butter	LI	rules from support and confidence values. [6]	A database has five transactions. Let min_sup=2 and min_conf=60%.	Explain KDD process with suitable diagram.	What is data mining? Explain any two applications of data mining.[4]	OR	What are major issues with data mining? Describe in brief	Explain difference between descriptive & predictive data mining.	89	Explain any two OLAP operations with suitable diagram and example.	What is data warehouse? Explain applications of data warehouse.	OR	Explain star schema with suitable diagram.	Why data need to be preprocessed? Illustrate with an example.	.cocoom y.	Neat diagrams must be drawn wherever necessary. Assume suitable data if necessary.		" (manual)	(2013 Pattern) (Semester D	Data Mining B.	[5156] - 504	1 00 La L	20
3.78	8.19	butter	, soap	toothpaste	bread, milk, butter	paste, bread	ITEM	sing Aprionalues.	t min_sup=2	diagram.	vo application		ing? Describ	ve & predic	13.	ith suitable	plications of		agrain.	Illustrate wi		ecessary.		Semester-I	omestar I	ngg.)	4	710	
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P.T.O.	[3]							[6]	onf=60%.	PE	nining.[4]		4	ning. [4]	<u>-</u>	example.	ouse. [4]	3		le. [4]				Max. Marks: 50	епсе			of Pages : 2	
											36																		

Explain data architecture model. Illustrate in brief.	Explain in brief.	What factors need to be considered before designing data architecture?	"There are challenges to successfully implement business intelligence" [5]	Explain various data warehouse components in brief.	Explain ETL process in detail with suitable diagram.	What is business intelligence? Explain any two applications.	Explain k-means algorithm. Write a note on decision tree.	
[4]	4	ture?	nce"	4	[5]	[4]	[3]	

Q7) a) b)

Q6) a)

Q8) a)

Q9) a)

Q11) a) How do you evaluate business intelligence reporting tools? Give your

b) "Business Intelligence Reporting Tools play key role in Decision Support System". Comment on the statement.

Q12) a) What is need of Business Intelligence Reporting Tools? Illustrate with

Q6) a) Q5) a) Q4) a) Q3) a) Q2) a) Instructions to the candidates: Time: 3 Hours Total No. of Questions: 12] 6 6) Principles and Practices for IT Project Management Give detail note on gantt chart? What are the risks associated with mitigation and management? How to establish project priorities? How to create project estimation? Give case study of banking? What are applications of IT in project management? Write a short note on product design and development. What are the functions of IT in management of customer relationship?[6] Give case study on business policy What is business policy? What are social ethics? What is the role and importance of management? Explain concept of management with its importance? Assume Suitable data if necessary Neat diagrams must be drawn wherever necessary. Answer to the two sections should be written in separate answer books. Figures to the right side indicatefull marks. (2008 Course) (Semester-V) (710901) 力したったのと TYMCA Engg SECTION - I SEAT No.: [Total No. of Pages: 2 [Max. Marks: 70 P.T.O. [6] [5] [6] 6 [5] [3] [3] [6] [6] [6] [5156]-51 Q12) a) Explain in detail impact of IT quality management system? QII) a) What is the concept of learning organizations? Q10) a) Give importance of team? Q9) a) Q8) a) Q7) a) 5 9 b) Give note on six sigma? b) What are the different cyberlaws? b) What are the strategies for resolving destructive conflict? ii) Conflict management i) Stress management What are team structure and team bonding? Explain Give note on decision tree? How to establish change control an IT project? How to organize an IT project for resource procurement? How to track project progress and financial obligations? 210.212.188 2:05 2 10212 188 194 02 03 00 18 04 1 14 04 35 Stir. SECTION - II OR OR

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