No of Printed Pages: 02 SEAT No._____ [A-35] Sardar Patel University Post Graduate Diploma in Computer Applications (PGDCA) Semester – II External Examinations **PGDCA-201 Operating Systems** Monday, 10th April, 2017 Max Marks: 70 Time: 2:00 p.m. to 5:00 p.m. Q-1 Choose the most appropriate option for each question: [8] i. Full form of JCL A. Job Command Language B. Job Common Language **C.** Job Control Language **D.** None of these ii. A stack section of a process contains variables B. Dynamic A. Global C. Local **D.** None of these iii. A process control block (PCB) is also called control block. A. Task B. Program **D.** None of these C. Job counter indicates the address of the next instruction to be executed for iv. The this process. A. Line B. Page C. Program **D.** None of these v. . A Base register is also called register. A. Registration B. Removal **D.** None of these C. Reference vi. The register can be written by the host to start a command or to change the mode of a device. A. Status **B.** State **D.** None of these C. Control vii. is the collection of related data. B. File A. Directory C. Register **D.** None of these viii. During ______ lock other process can read a file but cannot write. B. File A. Write **D.** None of these C. Read [14] Q-2 Answer the following questions (Any Seven): i What is a System call? ii Define: Context Switch

iii Explain Kernel Mode.

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V vi vii viii	Define: a) Logical Addre List the fields in the each elem Define following : i) Synchro List and explain attributes of t List the necessary conditions f Define Following: i) Logical	nent of a linked list onous device he file. for deadlock.	sical Address of Hashed tables. ii) Sequential access mode ii) Physical Resources	•
0-3	Answer the following questions:			
			ory and evolution of it	[6]
B.	 A. Define the term "Operating System". Discuss history and evolution of it. B. Write a note on different types on user interfaces in operating system. 			
В.	OR Write a note on Unix Operating System.			
O-4	Answer the following question			
	. Write a note on virtual memory.			
	Explain basic page replacement		igram.	[6] [6]
		OR	· · · · · · · · · · · · · · · · · · ·	[0]
В.	Find average waiting time using Round Robin scheduling algorithm. (Time quantum=5ms)			[6]
·	Process	Arrival Time	Burst Time (in ms)]
	P1	0	10	
<u>.</u>	P2	5	15	-
	P3	9	23	1
	P4	10	5	-
A. B. B. Q-6 A.	 Q-5 Answer the following questions: A. Discuss Block and Character Devices in detail. B. List and Explain different types of File Access Methods. OR B. What do you mean by the term "directory"? Explain any two types of it. Q-6 Answer the following questions: A. Explain Deadlock Prevention and Deadlock avoidance techniques. B. Write a note on inter-process communication. 			
	OR			
В,	Discuss typical PC bus structure with diagram			[6]
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	Baland		•	ject Technology)	Sfor	kai 70
	Date: 1	5/04/2017	Time: 2:0)0 pm to 5:00 pm	IAIGU	ks: 70
1	Sel	ect the appro	priate answē	r for the following	questions:	[08]
	1.	Full form of JV	'M is	·		
		i 🔰 (a) Java Val	lid Machine			
		• •	tual Machine			
			lid Mechanism			
		(e) None of				
	2.	Binary link ass	ociates	entities.		
		(a) 1				
		(b) 2		5		
		(c) 3				
	-	(d) Many				
	3.			e effective multiplicity	r.	
		(a) Meta da				
		(b) Role na		·		
		(c) Qualifier				
	4	(d) None of				
	4.	• •	/a compiler is _	<u></u> *		· · · ·
		(a) Big data				
·.		(b) Virtual c				
		(c) Key dat				
	5	(d) Byte co Java is				
	0.		independent		· ·	- t.
		(b) Object o	•			
		(c) Robust			·	
		(d) All of the	ese			
	6.	• •		in java is		
	÷,	(a) void				
		(b) int				
		(c) excepti	ion			
		(d) None o				
	7.	Java program	visible in a bro	owser is called java _		
		(a) Applet				
		(b) Applica	tion			
		(c) Thread				
		(d) None of	f these			
	8.	is an a	ccess modifier	in java.		
		(a) Private		、		
		(b) Protecte	ed			
		(c) Public				
		(d) All of th	ese			

Q-2	Answer the following questions (ANY SEVEN)	[14]		
~-	1. Write java statements that define (i) one integer called 'i' and one character			
	called 'c'.			
	 Give structure of java application. Explain if control statement in java. 			
	What java package? Name any two popular java packages.			
	5. What is a thread? Give two mechanisms in java to create a thread.			
	 Define Stream in java. Also list basic operations on java streams. List the three key success factors for object technology. 			
	8. Explain polymorphism by giving an example.			
	9. Define metadata with example.			
Q-3[A]	Define and discuss in brief the concepts of (i) encapsulation, (ii) inheritance and (iii) polymorphism.	[06]		
[B]	Find key concepts and key mechanisms in a typical bank account management system.	[06]		
	OR			
[B]	Find key concepts and key mechanisms in typical student monitoring system.	[06]		
Q-4[A]	What is aggregation? Discuss in detail all the types of aggregation.	[06]		
[B]	What is generalization? Explain generalization in detail by giving examples.	[06]		
	OR	F0.03		
[B]	Give any one class diagram in proper format. Also provide two instances of it.	[06]		
Q-5[A]	Describe features of java programming language in detail.	[06]		
[B]	Explain switch programming statement of java by giving its general structure. Also give an example of the same.	[06]		
	OR			
[B]	Write a java program that defines a 3*3 matrix call MAT containing integer numbers, prints the matrix in proper format and produces sum of all 9 elements in the matrix. Consider data as follows.	[06]		
	$MAT = \{\{1,2,3\}, \{4,5,6\}, \{7,8,9\}\}$			
Q-6[A]	Write a parameterized constructor of an Account class with all parameters such	[06]		
	as account code, account name, and balance. Use this constructor in method to			
	create two instances of the Account class with new() operator.	[06]		
[B]	Define: (i) final class, (ii) final method, and (iii) final variable in java programming language.	fool		
	OR			
[B]	Explain java access specifies (i) public, (ii) private and (iii) protected.	[06]		

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	SEAT No	
	[A-34] No. of Pages	s : 2
	SARDAR PATEL UNIVERSITY Post Graduate Diploma in Computer Applications (PGDCA) Semester – II PGDCA-204 (Visual Programming) 18 TH April, 2017	
Time	: 2:00 p.m. to 5:00 p.m. Marks	: 70
	Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.	
i (Pick up the most appropriate answer from the given alternatives and write n your answer book. i) Visual Basic is a -	(8)
	[A] Visual Programming Language [B] Function-oriented Language [C] Low-level Language [D] None of these	
• •	ii) In VB, we can declare a function using keyword. [A] dim [B] sub [C] function [D] None of these	
(i	ii) In VB, which one of the following controls has Text property? [A] Label [B] TextBox [C] Image [D] None of these	
	 v) OLE stands for [A] Object Linking & Embedding [B] Object Linking & Enhancing [C] Object Listening & Enhancing [D] Object Listening & Embedding 	li Na setta
5) 3)	v) The control is used to select only one option from the given options.	
	[A] Checkbox [B] Optionbutton [C] Frame [D] None of these in [A] The control is used display the picture.	
9). (V	 [A] PictureBox [B] TextBox [C] Label [D] None of these (ii) Which one of the followings is not a valid property of a Timer control? [A] Interval [B] Text [C] Index [D] Enabled (iii) In VB, which one of the followings is not a looping statement? 	
	[A] for [B] while [C] do while [D] with	
i. ii. iv v. vi vi	 Write the full-form of GUI, SDI, MDI and ADO. List down any four mouse events. Explain the use of ReDim statement with an example. 	(14)

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s:	2.4		
Q-3	(a)	What is Form? Explain various properties, methods and events associated with a form object.	(6)
	(b)	Explain CheckBox control and OptionButton control.	(6)
••			
1794. 1	(b)	Explain TextBox control and Label control.	(6)
Q-4		Explain Select Case statement and Do While loop with an example. What is Array? How can we declare it in VB? Explain with an example the use of 1-Dimensional array.	(6) (6)
		a an	
	(b)	Explain the concept of Control Arrays in VB by taking suitable example.	(6)
Q-5	(a)	What is Procedure? Explain various types of procedures available in VB with an example.	(6)
	(b)	Explain – Modules in Visual Basic, and the transformation of the transformation of the state of the state of the	(6)
	(7		
	(b)	What is File? List down different type of Files. Explain TypeEnd Type statement with an example.	(6)
Q-6	i (a)	Define the meaning of Bug and Debugging. Explain different types of errors that can be found in VB's program with an example.	(6)
	(b)	Explain – 'Database Processing using ADO in Visual Basic'	(6)
	•		
	, (b)	Explain QBColor(), RGB() and MID() functions with an example.	(6)
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		Addit is off whee strength is <u>the set</u> x <u>x</u> <u>x</u> <u>x</u> the set of	
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		ti — 1944 ang Aberta Phenyaka kana anang sa para tang pantan ang pantan na pantan na pantan na pantan na panta Pantan kana pantang pantan ang kantan Aberta Santan Santan Sa	
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[A-2	5	No. of printed pag	jes: 02	
	SARDAR P	ATEL UNIVERSITY		
PC		OMPUTER APPLICATIONS (PGDCA)		
		ER- II EXAMINATION IL 2017 (THURSDAY)		
		RNET AND WEB DESIGNING)		
Time: 2	:00 pm to 5:00pm	Marks: 70		
	Select the appropriate answer of	÷ •	[8]	
1.	A giant network of network is calle			
	A. Intranet	B. Internet		
•	C. Extranet	D. None of these		
2.		er which connects to server is called as		
		B. Web Server		
	•	D. None of these		
3.	The full form of URL is			
	A. Uniform Resource Locator			
	C. Universally Rectified Location			
4.	The full form of HTML is			
		nguage B. Hyper Text Multinational Language		
-	C. Hyper Text Markup Language			
5.	To write in new line tag is t			
	A. <hr/>	B.		
	C.	D. None of these		
6.	The effect "Close" is created with the			
		B. <cancel>Close</cancel>		
	· ·	D. <strike>Close</strike>		
7.	The full form of CSS is	•		
	A. Create Style Selection	B. Create Selection Sheet		
	C. Cascading Style Sheet	D. Classless Style Sheet		
8.	A collection of frames in browser w	vindow is known as		
	A. frameset	B. groupset		
	C. orderset	D. All of the above		
Q.2	Answer the following questions: [Any seven]	[14]	
	1. Define intranet and give its use		[]	
	2. What is the difference between browsing and information retrieval?			
	3. List any four browser software.			
	4. List the advantages of automat			
	5. What is hypermedia? Give any	-		
	• -	names of any two HTML generators.		
	7. Explain paragraph tag with its	· •		
		-		

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- 8. How many levels of header tags are available in HTML document?
- 9. Mention any two uses of hyperlink tag.

Q.3	A B	Explain TCP/IP model in detail. Write a note on Internet.	[06] [06]				
	D	<u>OR</u>	[00]				
	B	Discuss in detail how audio and video communication is carried out.	[06]				
Q.4	A	Explain the structure of HTML document. Give uses of HTML for internet usage.	[06]				
	В	Discuss tag in detail with all of its attributes.	[06]				
		<u>OR</u>					
	B	List and explain in detail with example any four text formatting tags of HTML.	[06]				
Q.5	Α	Explain table in HTML document in detail with appropriate example.	[06]				
	B	Write a note on types of Lists in HTML document.	[06]				
		OR					
	B	Explain types of CSS with their roles in HTML.	[06]				
Q.6	A	Which tag is used to create drop down list in HTML. Write a HTML code that creates a dropdown list with names of any five fruits.	[06]				
	В	Define frame in HTML document. Explain how frames are used to open multiple	[06]				
		web pages in the same HTML document with example.					
		OR					
	B	Discuss form tag in HTML document and mention its uses.	[06]				

*****BEST OF LUCK*****