JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES, UNIVERSITY OF MUMBAI

MIM SECOND YEAR SECOND SEMESTER

Subject: STRUCTURED LANGUAGES

DATE: 19th April 2010

TIME: 2:00 PM to 5:00 PM (3 hours)

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- 1. This question paper contains total 5 pages inclusive of this page.
- 2. All Questions carry equal marks.
- 3. Question 1 is compulsory.
- 4. Solve any 4 questions from question 2 to question 6.
- 5. Explain your answers with code snippets, diagrams. In a smarty of

b. Assume suitable data	ii necessary & indicate acc	cordingly.
Question 1 Write answer in complete	one sentence.	Marks 20
b) stream insertion ope	be access by object using _erator	(comment to the comment to the comment to the comment to the contract to the c
c) none of these d) cin object	distant new markey since exception.	
 2. It is possible to access a class, if that member is a) Inline b) Private c) Public d) Static 	. 13	ing any object of that
e) none of these	is present in front of a variable.	s vyranane addrése of that vana
A Constructor function v a) Arbitrator function b) Default constructor c) Standalone function d) Empty constructor e) none of these	with zero parameter is called	a) Astensk (*) as on a stensk same
 4. Consider the definition of a) Future inherited class b) Base class members c) Derived class data d) Derived class function e) none of these 	annoe .	what is being protected?

	5. When you derive a class privately, a protected base class	ss member becomes
WEAR STOR	a) public LABRAUM ISTYTESIBUMU	
	private	
	c) not inherited	
	a) protected	
	e) none of these	
	6. When the compiler decides binding an overloaded mem	ber, it is called
	a) Local binding	
	b) Safe binding	
	c) static binding mailteness of the makes of sauch and a	
	d) dynamic binding	
	e) none of these	
	m 14# 1 - Cab - full cuit on in a name of commont?	
	7. Which of the following is a correct comment?.	
	a) */ Comments */	o di dave les arrite
	b) ** Comment **	
	c) /* Comment */	
	d) {comment} e) none of these	
	e) none of these	
	8. Dynamic binding is necessary when we refer to derive	d class object with
	f) Global pointer	
	g) Derived class pointer	
	h) Base class pointer	
	i) No pointer variable	
	j) none of these	
	9. When the is present in front of a variable name	ne it represents the
	address of that variable.	ne, it represents the
	-) A-to-ink (*)	
	b) Canditional anomator	
	c) Ampersand (&)	THE WELLSON INTO
	el semicolon	
	e) none of these	
	- Altries and the second of th	
	10. When a class serves as base class for many derived cla	sses, this situation
		raniu bavosti iti"
	e) None of these	
1	373.00	

MEEM

14.

a) Integer	· vd bas	world one of him pollubur graves ?
b) float		A STATE OF THE STA
d) all of about		
e) None of the		
e/ 110110 01 0		Sept to the latest
12. When we det	fine a member function outsid	e the class definition, the definition
starts with	The state of the s	* weart to make its
a) name of	the first object	-1-ti
	me, followed by the scope res	
	me, followed by semicolon	haan a Mannelera aurilhaa.
e) none of t	specifier private	a) Jo go to the next deration in a
*	•	
13. Which of the	following header file is require	ed for strcpy() function?
a) conio.h		W.
b) string.h		of restarts desarrors from begins
c) strings.h		e) near of theire
d) stdio.h	15	
e) none of t	inese	
a) The declar	arations of the basic standard in artions of the basic console in	input-output library.
b) The decla	nrations of the basic console in ms of includes and outputs of	program effect.
b) The decla	nrations of the basic console in ms of includes and outputs of	program effect.
b) The declac) The stream	mrations of the basic console in ms of includes and outputs of ese	program effect.
b) The declarc) The streamd) Both of thee) None of the	mrations of the basic console in ms of includes and outputs of ese	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of	ms of includes and outputs of ese hese ctor function has to be the name object of the class	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first p	ms of includes and outputs of ese hese ctor function has to be the nan	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first p	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlic data member	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of c) Class d) The first p	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlie data member orivate data member	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first p	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlie data member orivate data member	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first p c) Class d) The first p e) none of the	ms of includes and outputs of ese hese etor function has to be the name object of the class oublic data member private data member hese	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of c) Class d) The first pe e) none of the 16. Ability to take a) encapsular	reations of the basic console in ms of includes and outputs of ese hese ctor function has to be the namble of the class outlie data member hese emore than one forms is called ation	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of c) Class d) The first pe e) none of the 16. Ability to take a) encapsulate b) polymorph	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlic data member private data member hese emore than one forms is called attorn thism	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of Class d) The first p e) none of the 16. Ability to take a) encapsular b) polymorph c) inheritance	mrations of the basic console in ms of includes and outputs of ese hese etor function has to be the name object of the class oublic data member private data member hese errore than one forms is called attion thism see	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of c) Class d) The first pe e) none of the 16. Ability to take a) encapsular b) polymorph c) inheritance d) member	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlic data member private data member hese emore than one forms is called attion hism be function	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of Class d) The first p e) none of the 16. Ability to take a) encapsular b) polymorph c) inheritance	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlic data member private data member hese emore than one forms is called attion hism be function	program effect.
b) The declar c) The stream d) Both of the e) None of the 15. The Construct a) The first of b) The first of c) Class d) The first pe e) none of the 16. Ability to take a) encapsular b) polymorph c) inheritance d) member	mations of the basic console in ms of includes and outputs of ese hese ctor function has to be the name object of the class outlic data member private data member hese emore than one forms is called attion hism be function	program effect.

17. Every function in C++ are followed by	reparted to
a) Paramaters	
The second of th	Marie Pales
b) Parenthesis	avata la la
c) Curly braces	See Start July 1990
(d) Square brackets	
e) None of these	
too(d	
red by the scope resolution operator	
The state of the s	
a) to go to the next iteration in a loop	
b) come out of a loop	
c) exit and return to the main function	
to late the starts from beginning of loop restarts	
e) none of these	Habita (I
19. Identify the invalid pointer arithmetic *	
a) Addition of float value to a painter	
(b) Comparision of pointers that do not	
(b) Comparision of pointers that do not point to the ele	ment of the same array
of odotracting an integer from a pointer	
of Assigning the value of to a pointer variable	ro Born of three
e) All of above	
0. Explicit type conversion is known as	

(a) Casting

b) Conversionc) Disjunctiond) Separatione) none of these

Question 2: 2002-8002 retreated backed ras7 bacced Marks 20

a) 'What is a structure? Explain with example. How structure is different from array? Distinguish between structure and class (8marks)

in) Describe all the stations resulted of Java (America)

c) What is pointer variable how it is differ from reference variable? (4marks)

Question 3: Marks 20

- a) What is the meaning of abstract method? What is the advantage of declaring class as 'abstract'? What is the difference between abstract and final class? (8marks)
- b) What are different types of function declarations? How will you declare a function outside and inside the class? (8marks)
- c) Compare class and object with suitable Example (4marks)

Question 4: (y m b lot) Marks 20

- a) What is object oriented paradigm? Explain the various features of object oriented programming with example. (8 marks)
- b) Explain practical usage of interface with example? Describe how it differ from class (8 Marks)
- c) What do you mean by Exception handling? What are the types of exception? Compare them. (4 Marks)

Question 5 bas valuese and also evice of syst avoils last year and Marks 20

- a) Compare and contrast C++ and Java (8marks)
- b) Write Brief note on 1) JVM 2) Development Tools for JDK (8marks)
- c) What are the uses of keyword 'final' in Java? Give Example (4Marks)

Question 6 (a) elemented in Marks 20

- a) What is array? Write example for each type of array. Describe two ways to declare array in Java. How do you get size of an array? Is index checking is supported by Java? (8 marks)
- b) What is a friend function? Describe their benefits and limitations. Give suitable example. (6 Marks)
- c) What is the need of dynamic method dispatch? Explain with example. (6Marks)

University of Mumbai Jamnalal Bajaj Institute of Management Studies Second Year Second Semester 2008-2009

se? Explain with some MIM and Bouchard Allferent truc

Where necessary make appropriate assumptions and state them clearly.

a) Against each of the following declarations, mark (D) for declarations or (F) for

Wednesday, 22-04-2009

Attempt any FIVE questions. All questions carry equal marks.

Marks for sub-questions are indicated against them.

Notes:

Sub: Structured Languages

(3 Hours)

(Total Marks 100

	definition. For those marked with (D), write a definition for them, while for those marked as (F), write a declaration which is not a definition –(8) i) char ch; ii) struct Date {int d, m, y,}; iii) int day(Date *p){return p->d;} iv) double sum(double, double);	A GORESOLD
	b) What kinds of objects are allocated on STACK in a typical 'C' program? (4)	
	u mean by Exception handling? What are the types of exception?	ob tedV/ to
	2. (shell b) ma	the constant
	 a) What do you mean by - Declaration, Definition and Usage? Illustrate with an example of each. (6) 	i.
	b) "Byte code" is the key that allows Java to solve both the security and portability problems". Explain.(6)	d memeral
	3 ** IAM 21 Development Tools for JDK (Brossids)	Policies and the same
	 a) What is the mechanism in C++ for extending it by providing user defined type ? Explain with an example (5) 	diens tedity (a
	b) Compare 'Passing parameter by value' with 'Passing parameter by reference". Illustrate with an example.(5) c) Why was 'C' named so?(2)	a nodanci
	by? Write example for each type of array, Describe two ways to	sits at terivit. In
	4. a) "Java is NOT an enhanced HTML". Explain.(5) b) What do mean by 'Structure' in Structured Languages? Discuss.(4) c) Why was Java's earlier name (Oak).	Tri .
	c) Why was Java's earlier name 'Oak' changed? Explain. (3)	iler siderius
	5. elgrasxa raw merepest nursig an bordesta de constructor posse	Mary Mary 1871 P.
	a) What are the rules for forming identifiers in 'C'? Illustrate (4) b) What are the identifying characteristics of a Object-Oriented Programming paradiam?(4)	
	c) What are the characteristics of structured programming languages? Discuss.(4)	
	6.	
1	a) Briefly describe history and evolution of law (4)	
1	b) Differ describe history and evolution of Co. 14	
	c) Standard CTT has stronger type checking as compared to	
i.	Discuss (4)	ii sana
25 tu	7.	L. Bran
	a) "Java is a strongly typed language it as	
100	The state of the s	II Applican
	c) Function can be considered as derived type as well as user-defined type". Discuss (4) End of Question paper	

UNIVERSITY OF MUMBAI JAMINALAL BAJAI INSTITUTE OF MANAGEMENT STUDIES

THREE YEAR PART-TIME MASTER'S IN MANAGEMENT STUDIES MURDM/MIM/MIM/MFM EXAMINATION II YEAR II SEMESTER 2006 - 2007

ECO STRUCTURED LANGUAGES Total marks: 70 / All questions carry equal marks Marks for sub-questions is indicated against them Where necessary make appropriate assumptions and state them clearly a) Compare C and C++ with respect to features supported by both. (4) b) Compare 'declaration' of a variable with its 'definition'. Explain with examples, Compare 'class' and 'object' with suitable examples. (6) a) Is it always necessary that a function be declared before it is used (in C) 'yes' why? If 'no when is it not required to be declared? Illustrate with example. (5)* b) What is the mechanism in C for extending it with the help of user-defined types? Explain with an example. (5) (x) What do you understand by function with default parameters? Illustrate with a suitable example. (4) a) is it possible to create an user-defined parameterized type in C++? why? If 'yes' how? Explain with an example. (6) (Sb) Explain and compare 'translation unit', 'object code' and 'executable code' Are they linked in some way? Illustrate. (6) - Explain the purpose of 'main' function. (2) a) Under what situations 'C' may be preferable over 'C++'? Describe. (4) b) Compare 'Inline' functions of C++ with '#define' macros of C. (3) c) Compare "#define" with 'const". (3) d) How do you compare formal parameters of a function with its actual parameters. Illustrate with appropriate example. (4). Briefly describe history and evolution of C. (4) C++ is a procedural programming language with Object-Oriented extensions "Explain (5) Compare function declaration with function definition, Illustrate with a suitable example: (5) were at all assistant first the engineer should Explain function overloading with appropriate example, (6) and the season of the second Whichde stdio hamme int ((Int a, Int b) return a //* this is c-style comment */b main() printf("%d\n",f(10,5));

Above program is saved in files a 1 c and a2 cpp respectively. The yave a compiler and a compilers respectively. What will be output produced by a1 and a2 ? Why? Explain your answer (8)

UNIVERSITY OF MUMBAL JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES

MIM - SECOND YEAR (SECOND SEMESTER -

SUBJECT: STRUCTURED LANGUAGES

DATE: 27TH APRIL, 2006

TIME: 3 HOURS MARKS: 100

- All questions carry equal marks.
- Solve any five questions.
- Explain your answers with code snippets, flowcharts and diagrams.
- () 1) What is a package? Explain any one package in Java in defail.

- A) What is meant by Platform Independence? How is it achieved in Java?
- B) Which are the different primitive datatypes in Java? Where are they used?

- A) Explain general coding structure of a class with coding example. List a few coding conventions followed in the language.
- By How are methods defined in Java? Explain the usage of most common keywords used in method definition.
- () 4) What is Object Oriented Programming? Enumerate and explain various features of OOP with suitable code examples.
- Q 5) Write Short notes --
- A) String Class
- B) Constructors
- C) Java Collections
- D) Wrapper Classes
- Q 6) What is Method Overloading? Where is it used? How is it different than Method Overriding?
- ().7) Explain salient features, advantages and disadvantages of Java as programming language. How does this language compare with other programming languages? What are the practical applications of Java? Explain a few.

- A) What is a container software?
- 11) What are the different types of EJBs? Where are EJBs used?

TO THIS BEAR University of Mumbail AT AT IN TAMMAL Jamnalal Bajaj Instituta of Management Studies.

MIM - Second Year - Second Semester (2003-04)

Subject: Structured Languages .

Date: 17th May, 2004

Time: 3 hours

Ruotteam Marks: 100

Instructions: -

Solve any five questions. "Boat amband! adi well and sold a let (6.10)

All questions carry equal marks

What is object oriented programming. Explain features, advantages and disadvantages of object oriented programming.

VVhat are constructors? How are objects created and destroyed in the Java Virtual Machine? Explain briefly, the functioning of Garbage Collection in JVM.

What is method / constructor over pading? How is it used in programming? (x (Java ang) -

Explain various data types, their uses with examples. What is the difference between primitive and object data ypes?

What is package? Explain any one provage in detail?

What is threading? Explain the applications and common problems in threading?

What is loop (control) structure. Explain 3 types of loop structure with small code snippels.

What is JDBC? What are the different types of JDBC drivers?

JAMNALAL BAJAJ INSTITUE OF MANAGEMENT STUDIES UNIVERSITY OF MUMBAI

	van megana cen u wordenwhen		
Date: 23/05/2003	Time: 2.00 pm to 5.00 pm	Marks: 100	Pupe She down
All questions carry equ	ial marks	<i>i</i>	+
Solve any FIVE question			
Logic and flow chart es	arry equal marks	in the same of the	
		• /	4.
b) What are the com	g"? How the "Threading" modle in Jamon problems encountered in "Muli	AVA works't tithreading" programs a	nd how - Death
	and the same		
	How packages are created in JAVA? ckage in JAVA, with brief description	ns of its interfaces, clas	ses and Ah sal
	Water the Mark State of the Committee	Assess T 1	the V
Q3. Explain following pr	ogramming structures with suitable ex	xamples.	
b) do while			110
c) if else if -			1.2
d) logical operators			
	. The state of the		1.42
Q4. Write short notes on			dist.
a) Object serialization	on a		
b) Immutable objects	S - Juni	Le Lagrand military	*
e) Java security mod	el -		
(d) Method overloadi	ng —	The second second	
The first design of the second	144.		
(US:a) what is overriding to b) Explain the practical	Explain with example.	nimels.	The first
A Standard Libert			
ay Read from a text	flow charts and logic can also be used file located at c:\temp\sample.txt a am should contain proper exceptional	and print the contents	on the
Create a vector, in	sert names of ten students in the vector	or and sort it ascending o	rder vh i
screen.	arguments from the user and print	on the bigger number i	on the - i/·
Q7. Explain the following	classes with their practical application	ns,	24
a) String (*) b) Runtime			1
c) System			pusa
de Inmitetraam	The state of the s	15	P

c. program mutual exclusion, HMUM 30 yr d. program mutual exclusion; const.n = . . . ; (num procs) (soong mum); ... = n lanos MIM II SEMSTER II var bolt; integer, var balt, integer: procedure P(i: integer); procedure P(i: integer); begin baasti dvar keyi: integer; begin repeat repeat {nothing} until testset(bolt); repeal < CS > keyi := 1; exchange(keyi,bolt): bolt : 0; <re>remainder> repeat forever exchange(keyi,bolt) until keyi = 0; <re>ainder>ul aud mucauxes</ri>

forever

- 6). Do you need hardware support for the implementation of semaphores? Why?
- What is the difference between a safe, an unsafe, and a deadlocked system?
- (8) Explain the conditions under which process can be deadlocked.
 - 9) Identify the five requirements that memory management is intended to satisfy.
 - A. No process should be subject to unwanted interference from another process, whether accidental or intentional.
 - B. Controlled access to shared areas of memory must be allowed, without compromising essential protection.
- C. Since we cannot know ahead of time where in memory a program should be placed, and since a program may be moved from one memory area to another, our memory management must provide for...
- D. The task of finding areas of main memory and secondary memory for a program and of moving information between the two levels of memory.
- E. Providing for the programmer useful concepts for program organization, which may or may not exact physical parallels.
- Explain the significance of using Direct Memory Access in the modern computer configurations.

29 For holicest

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES UNIVERSITY OF MUMBAI MIM II SEMSTER II 21ST April 2011

Web Based Technologies

Total Points:100 NOTES:

Duration: 3 hours

a. All questions are compulsory. Each question has 20 points.

b. Usage of Pictorial representation in form of Block, Diagram, Flow Chart, etc. is encouraged.

c. Provide examples of benefits in business terms (wherever applicable).

d. Please provide response in "readable" writing and limit text in the overall response to maximum two full pages per sub-question.

- "The Internet has revolutionized the way blusiness is transacted in various Industries today as compared to the pre-Internet era". (a) Please discuss this with suitable examples by selecting an industry and covering aspects such as improvement in productivity/ customer reach/ response time/ lead time, and other suitable parameters. (b) Discuss with reference to various systems and applications being used by leading organisations.
- 2. Short Notes (maximum 1 page per response):
 - a. RSS feeds (most commonly expanded as Really Simple Syndication)
 - b. Name 10 CRM (Customer Relationship Management) packages
 - c. Name 10 ERP (Enterprise Resource Management) packages
 - d. Names 10 SCM (Supply Chain Management) Packages
 e. Name 10 Web programming language

 - Name 10 Web / Application servers
- g. IP Address , SMTP, POP3
 - h. Discuss multi-tier architecture in context of web technologies
 - i. WML, XML, DHTML, PHP
- 3. (a) "You have to be a 24x7 shop open at all times in the eCommerce age". Explain with suitable examples.

placed, and ance a program may be moved from one memory area to another,

- 3. (b) Explain the workflow in an eProcurement application. Discuss advantages of the Internet in this business function in terms of business benefits.
- 4. (a) Discuss various Business Models on the Internet Explain various revenue generation
- 4. (b) Discuss the Social issues with the advent of Internet era.
- 4. (c) Discuss the issues (technical as well as others) in implementing an Internet/ Web application
- 4 (d) What is Convergence ? Discuss issues in Convergence.
- 5. (a) Why is Internet security important, What aspects of communication are address by Internet Security techniques.
- 5. (b) Discuss Public / Private Key cryptography technique.
- 5. (c) What is the role of Firewalls in Internet Security?
- 5. (d) Discuss Ethical hacking. Name 5 Antivirus packages.

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES UNIVERSITY OF MUMBAI MIM SECOND YEAR SECOND SEMESTER

Subject: WEB TECHNOLOGY

DATE: 20TH APRIL 2010 TIME: 2:00 PM to 5:00 PM (3 hours) MARKS: 100

Instructions:

- 1. Assume suitable data if necessary & indicate accordingly.
- 2. All questions carry equal marks. TO TRUTTED TO ALL TO
- Q.1. Explain: (i) XML
 - (ii) PHP
- -Q. 2. Describe the various technologies available in the tiers from Microsoft and Sun Microsystems (Java).
- Q.3. What is the difference between Client-Server applications and Web-based applications?
- Q.4. What is the difference between symmetric key and asymmetric key cryptography?
- Q.5. Discuss in brief history of Internet?
- Q.6. What is the fundamental service provided by an Internet Service Provider (ISP)? What are the optional features it provides?
- 0.7. Discuss POP and SMTP in brief. How is IMAP different from POP?
- Q.8. Discuss the three tiers in modern web applications. What are the advantages of 3-tier applications over 2-tier applications?
- O.9. Explain business side of WAP.
- O.10. What are digital certificates? How are they useful?

45

Web

UNIVERSITY OF MUMBAI

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES

THREE YEAR PART-TIME MASTER'S IN MANAGEMENT STUDIES MHRDM/MMM/MIM/MFM EXAMINATION II YEAR II SEMESTER 2006 -2007

SUBJECT: WEB BASED TECHNOLOGIES

DATE: 21" APRIL, 2007 MARKS: 100

TIME 3 OT 6 PM

(3.3) What is the difference between Client-Server applications and Web-based

ALL QUESTIONS ARE COMPULSORY

1) In reliable retail the board after considering the cost of real estate—thought of going for Online model of business (like Dell.) and decided to sell only branded neems on line. Yes as a CIO is asked to give FOTAL idea as to how the various e-business strategy you will like to adopt and bring the business model five.

2) Write short notes on (Only Two)

a) RSS b) AJAX c) FTP d) HTTP e) SOA-P to ship seed an alegest e

only Branded Herry on hie

Telnot, FTP, SMIP, DNS

1-7

UNIVERSITY OF MUMBAL TAMMALAL BATATINGS LITTE OF MANAGEMENT STUDIES

MINT - SECOND YEAR - SECOND SEMESTER (2005-06)

SUBJECT AND BASED TECHNOLOGY

TATE: 28TH APRIL, 2006

TIME: 3 HOURS

TOARNO: 100

ALL QUESTIONS ARE COMPLESORY

All questions carry equal marks, receivened as a goldenn lie bux anonced a automatic is

- () I Compare competing server side technology(Any two), butto apar one collabilities (
- Q 2 Effective CRM and SCM without internet technology is really achievable. ! Justify .
- Q 3 Networking security has become essential part of computerization, explain various security aspects.
- O 4 Evolution and development of Internet protocols in light of convergence of technology -data, video, voice over data

05

Write notes on

- a) Manchesier encoding and a washing of valid Redundancy Check British and Check Bri
- b) 802.11 protocol and services
- c) Ego-casting, Broadcasting
- d) PPP Protocol
- e) Bluetooth protocol and services VAL (6 924 to more ablod) (d ignoesval (a

(Energylith of Decryption c) Encapsulation d) Hindings

MITE a) TELNET d) IMAP

University of Mumbai JAMNALAL BAJI JINSTITUTE OF MANAGEMENT STUDIES Three Year Part-Time Master's Degree Programme (MIM) Second Year - Second Semester Examination - 2003-04

Web Based Technology

Date: 18th	May 2004	Time: 2.00	p.m. to 5.00 p.m	E GBBS (F)	Marks: 100
Note:					
2) The 3) Obje 4) Sub	re are 2 Section ective Section I jective section I	ns and all question Tas maximum 50 Tas 50 Marks	pages inclusives are compulsor Marks	y,2 Amen Integra	
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	the blanks (40				spinglar fi
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	Manager State of Stat				
	**		C V	Mys	. 71



61	A style sheet is set of instruction that tells a browser to display a particular type of
0); ,	Element. May 2018
	a) Coldfusion (i) ASP o) Javascript (i) HTML.
	is a tool that enables program to develop web based application that
7)	access database effectively at server and.
	a) HTML b) ASP c) JAVASCHIPT d) Coldfusion
In TCF	/IP Model
0.7	Physical and data link layers
8)	Physical and data link layers
ni.	protocols are there in Transport layer.
9)	are there in
10)	are there in
*	Application layers. The short comings of tend and message written only in English and expressed in
	a) DNS by MIME c) SMTP d) POP 1
12	COOKIE is a small i) residing on ii) Systems
i)	Tout a) Everytable Program d) File containing data fields
.j)	a) Variables b) Text c) Excentante 1 regularity and Server b) Clients c) ISP Hard Disks d) CD-Rom Drive of client
	745 dia -
13) Jacascript can be used to make in HTML pages.
	a) Modification b) Verification c) Validation d) Interactive
	「「「「」」「「」」「「」」「」「」「」「」「」「」「」「」「」「」「」「」
14	To write programs on Server side following technology is used
	a) Javascript E) ASP, PHP, C(il c) HTML d) Java Appelets
	 4 括、「如、一つな、一等、」。 4 は、一つなど、「対象に関する」。
15	5) Methods used to transfer data collection in HTML forms
	a) TRANSFER b) GET c) POST d) SEND

16) Ja va deve	is aobject priented programming language for web lopment.
and the state of t	Platform independent b) Platform dependent c) Platform polarized d) None of above
i /)custo	integrates the entire enter prise starting from supplier/vendor to mer covering Financials, Logistics and FIR •
a)	EDP b) SCIM c) CRM d) EHP
18) Whiel sent?	of these attr butes of a <foi:m+ be<="" data="" determines="" tag="" td="" the="" where="" will=""></foi:m+>
	chart hat ristepus a grant from the contract of the contract o
a)	ACTION 6 METHOD c) NAME
19)	of string object conserts a string in upper case.
20) To extused.	ract at a known position within a string crown method is
	FALSE (10 Marks)
(2) (13) (4) (5) (7) (7) (8) (9)	PWS is used to install ASP in Windows NT Server HTML can perform data validation on user forms 27-22 XML can perform all the functions of HTML HTTP is a protocol used for downloading web pages from the internet Active Server Pages is used for client side scripting 1 m. 26-2 Intranet can have an access to internet but vice-versa is not necessary Gateways are used to convert the data in one protocol to another means as ever side scripting 1 m. 26-2 Through MIME you can write text in any language In Javascript arrays object can be defined of multiple dimensions.
	overs programs on Server side I soveing technology or used an Lousepart El ASP, PHP, CC1 of HAMIL 40 favor Appeleis an Lousepart El ASP, PHP, CC1 of HAMIL 40 favor Appeleis and the transfer dam colleguor in 131 ML terms and the transfer dam colleguor in 131 ML terms and appeleis and appe

19/05/03 Marks 100.

Objective Type (40 marks)

0.1)	Fill in the blanks:	(20 marks)	
i)	is t	the protocol that is used for VPN:	
	a) PPTP	'б) L2TP	
#0 15	c) L2F	d) RIP	
ii)	sty	lesheet has got the highest precedence	
	a) Embedded	b) Class	
	c) Inline	d) Linking	1310 v
		IGH uz.	
iii)	0 0	l by mobile devices for communicating	g iş
		art of a finding particular to be a section.	m. of all district
	a) VRML		
	c) TCP/IP	d) ASP	District
:)	pr	otocol is used for transferring files fro	m Carror to
iv)	Client.		ın server to
		c-b) POP	
	c) FTP	d) Telnet	nMI night by
		TIME POST	or allboyes
v)	is u	ised to protect an organization's data	from outside
	unauthorized users		#WW (2
	a) Gateways	B) Firewalls	- ingress fair
	c) Routers	more to me d) Hub with at a mo finns	udi daa y
vi)	IIS. PWS are the so	ftwares which are used for	rodfirm
, -,	ar ASP	b) Java	TOTAL TO THE
	c) ColdFusion	d)BroadVision	allaga (c.
		e a tool that cauldes pregramm	
vii)		efined as the process of converting pla	in text to
	-	notes by thought Vision	Whoo ()
	a) Encapsulation.	b) Encryption	A maa 7 to
	c) Decryption	d) Stratification	4

viii)	Internet was tested between Stanford Research Institute and
	b) MIT c) BLUS d) ORUTX
ix)	is the protocol used for transferring mails from the
	client to server. a) POP b) Telnet c) IMAP d) SMTP
x) -	is the art of managing the organizational resources for the ultimate satisfaction of the customers. a) ERP b) SCM c) CRM d) EDI
×i)	A style sheet is a set of instructions that tells a browser how to display a particular type ofelement. a) HTML b) ColdFusion c) Java d) ASP
xii)	In SMTP, is used to initiate a mail transaction in which the mail data is delivered to one or more terminals and mailboxes. a) SOML b) SAML c) MAIL d) DATA
(xiii)	In SMTP, is used to initiate a mail transaction in which the mail data is delivered to one or more terminals or mailbox. a) SOML b) SAML c) MAIL d) MPUT
xiv)	is a tool that enables programmers to develop web- based applications that access databases. a) Cold Fusion b) Broad Vision c) ERP d) HTML

ΧV) allows y	ou to communicate with a da	itabase and
- 1	the web server to process	and send data to the client br	owser.
	a) CFQUERY	b) CFOUTPUT	
	c) CFOUERY	d) CFABORT	
xvi	le for arthur dander of ale	more emphasis is given to	3 5 (41601
XVI	understanding the details	of an existing system or a pro	A may and a
		r the proposed system is desi	
	and men deciding whethe	r me proposed system is desi	idule of mot
	and whether the existing s	ystem needs improvements.	The Lar
	va) System Analysis	b) System Design	
	c) System Developement	d) System Testing di	
	Tolk benedit took	server side scripting language	क्षा अधित (।
xvii	provides fu	inctionality and offers an ente	erpfise
	solution for web-site creati	on and management.	Jamel adT.
	a) Broad Vision	b) Cold Fusion	
	c) ASP	d) Java esti toedesiaja ti	
	SAL SEVIES	ed to install ASF on Window	
xvii	i) is a technique	ue that allows exchange of da	ita IMA
	electronically.	n pertern data validada a	
A STATE OF	a) ERP	b) SCM	
	C) EDI	lhoold) Java been long a	ALTERIO
	Astem with manual analysis	s to il robes think although and and	Hardonis i
xix)	integrates	the entire enterprise starting	from
	supplier/vendor to custom	er, covering Financials, Logis	tics and
		is the protocol used by Apple	
	(a) ERP	b) SCM	
	c) EDI	d) CRM	
	* 1		
xx)	Jaya is a	object oriented programming	g language.
	a) platform independent	b) platform dependent	
	c) platform blased	d) None Of the Above	

O.2) True and False

(ISOC) is the main group that oversees the continuing evolution of the Internet.

Ø b) In ISOC, CERT is the acronym for Computer Emergency Response Team (CERT)

(c) Internet Architecture Board is responsible for setting standards and resolving disagreements.

(d) Intranet can have access to Internet but vice- versa is not necessary.

The L2TP packet uses IP as the transmission protocol.

Active Server Pages is used for client-side scripting.

Tg) Using XML, the users can create customized tags of their choice.

h) PHP is a Server side scripting language.

(i) In Java, the size of source file is greater than class files.

The language used with Cold Fusion is known as CFML.

(k) Web is defined as the physical part of Internet.

1) Embedded stylesheet has the largest precedence among Stylesheets.

m) PWS is used to install ASP on Windows NT Server.

(n) XML is used for better data management and faster search.

o) HTML can perform data validation on user forms.

TP) XML can perform all the functions of HTML.

(4) HITTP is a protocol used for downloading treb pages from the Internet.

r) Hackers are the people who enter the system with malicious intent of devastating the system.

(s) Gateways are used to convert the data in one protocol to another.

t) IPX/SPX is the protocol used by Apple Computers.

Subjective Type (60 marks)

Please read the following instructions

- 1) Select any 2 questions among Q.1, Q.2, Q.3 and Q.4
- 2) Q.5 is compulsory and carries 20 marks

Q.1) Write Short Notes on:

- a) Virtual Private Network
- b) History and Evolution of Internet
- c) File Transfer Protocol.
- d) ASP: Need and Application.

Q.2\(\text{Explain the following:}\) (7marks+7 marks+6marks=20 marks) ay Why is Java called Platform Independent language? Explain in detail?

What are the features of Java?

Mhat are the 2 different types of programs in Java? Explain with examples of each? Also mention the difference between the 2 types of programs?

(c) Explain Symmetric and Asymmetric Encryption.

(Q.3) Explain the following:

(6marks+10marks+4marks=20 marks)

a) What is ColdFusion? Explain the need for such a technology?

b) What is the language week with Cold Fusion? Name and explain any a tags used in ColdFusion with examples?

c) What is StyleSheets? Explain their significance?

Q.4) Explain the following: (4marks+6marks+5marks+5marks=20 marks) a) What is a model of a system? How is a model helpful for developing a

by What is Waterfall Model? Explain its advantages and limitations?

c) What is Prototyping Model? Explain its features?

dy What is meant by preliminary analysis? What are the different procedures

Q.5) Given below is a case scenario. Read it carefully. Scenario 1

Mr.Patil wants to start a website by the name Patil Infosystems. He wants to create an IT consulting firm wherein people can log on and register themselves by giving their details which includes Name, Age, Address,

Gender, Qualification. Also the user should specify a password of his/her choice. There should also be a provision for reconfirming the entered password. The web page created should have 2 buttons Submit and Clear, a) You are required to create a Web Page in HTML satisfying his above stated requirements (5 marks)

Scenario 2

The web page created should also check if all the details are filled properly and no field is left blank.

When the user clicks on Submit button, the details should go and update a database present on the Windows NT Server. The Server should validate all the data that is being sent.

b) You are requested to advice and convince Mr Patil on which languages or technologies can be used for implementing the very same. (3 marks)

Scenario 3

Mr.Patil is apprehensive of the security and privacy of his users data traveling from all across the world. He also wants his data on the Server to be safeguarded.

You are requested to suggest the different techniques that he can adopt to maintain the secrecy and security of data. (5 marks)

Scenario 4

Mr Patil has registered his email id as askme@patilinfosystems.com.

Using this email id, he would like the users to sent his queries to him for which he can respond back.

d) You are supposed to update Mr. Patil on the different technologies that are used for mailing. (3 marks)

Scenario 5

Mr.Patil is happy his systems are working properly. He decides to expand his consulting firm to USA, Argentina and Norway outside India.

e You are required to update Mr.Patil of the different technical, administrative and legal hurdles that he might face. Also try to provide the solutions for implementing the same.

(4 marks)

DHCP

All the Best

MAP

Bet D' Builty D

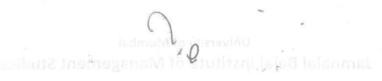
Page 7 of 7

555









SECTION II (50 MARKS).

Q.L. Write a Short Note on -

- a) Various Data Transfer Protocols
- b) ASP: Need and Application m. 2003
- e) History and Evolution of Internet M. 1602 (15 Marks)
- Q.2. 1) Write a HTML program with script to design a Registration Form with following fields (use creative HTML tags and favascript methods)
 - a) User Name b) Age c) E-Mail Address d) Telephone Number (10 Marks)
 - 11) Validate the Input in following mar ier. (20 Marks 5 Marks Each)
 - a) User name cannot be left blank
 - b) E-Mail address should contain (i) sign
 - c). Telephone number must be 7 digits
 - d) Only MAJOR should register have divi-
 - III) The user wants to keep database of the maximum 1000 user. Which technology he should use to store data? Suggest. (5 Marks)

University of Mumbai Jamnalal Bajaj Institute of Management Studies

MIM - II Year (Part Time Systems) Second Semester Data Management & System Software

Date: 17th April 2011 Duration: 2 hours

Marks: 50

Note:

- 1. Attempt all questions
- 2. Question number 1 carries 10 marks
- 3. Question number 2 and 3 carries 20 marks each
- Q.1. Answer any five of the following: (2 marks each)
 - 1.1. Explain the term 'OLTP' and 'OLAP' with suitable example.
 - 1.2. What are the key differences between 'file system' and 'DBMS' that led to the creation of DBMS?
 - 1.3. What the term 'DS/DD' stands for? Explain them with suitable example.
 - 1.4. Explain the role of DBA and DA in an information management organization.
 - 1.5. Explain the term 'DDL' and 'DML' with suitable example.
 - 1.6. Explain the term 'indexing' and 'sorting' using suitable example.
- Q.2. Answer any two of the following: (20 marks)
 - 2.1. What is client-server architecture? Explain with suitable diagram, how an organization can connect multiple application in client-server architecture model? State at least four advantages to business by adopting this model.
 - 2.2. What is meant by Data warehouse? How is it different from Data Mart? Explain data warehouse architecture with special reference to source, ETL layer, repository layer and presentation layer.
 - 2.3. What is 'Normalization'? Explain different forms of normalization with examples.
- Q.3 Answer any two of the following: (20 marks)
 - 3.1. What is an operating system? Explain briefly various features added to the operating system over a period of time stating the need for such addition.
 - 3.2. What are virtual machines? Explain briefly its working mechanism with suitable example. List two advantages of using virtual machines in our day to day business / work environment.
 - 3.3. What is an operating system? Explain briefly at least six components of an operating system.

OD1

University of Mumbai Jamnalal Bajaj Institute of Management Studies

Part Time MIM (Systems)-II Data Management & Systems Software

Date: 21 April 2010 Duration: 2 ½ hours

Marks: 100

Note:

- 1. Attempt any FOUR questions.
- 2. Each question carries 25 marks.

1 Write Short notes on:

- a. Centralized processing and Distributed processing
 - b. Data Modeling (Physical, logical and conceptual)
- c. Stored procedure and triggers
 - d. Concurrency control and locks



- Describe different types of database models. Explain advantages and disadvantages of relational database model over others.
- b. Name and explain any two relational operators used in RDBMS.
 - c. What is structured query language (SQL)? List any three operators and three functions used for SQL statement and explain the same with suitable example.
 - d. Distinguish between RDBMS, OODBMS and ORDBMS with respect to feature support, usage, structured query language, and performance.
- (a) Write a brief note on Normalization with suitable example to explain first, second and third normal form.
 - b. What do you understand by the term "indexing"? Name and explain any two types of indexing.
 - c. What do you understand by the term static (archived) and dynamic (live or transactional) data? Describe Data-warehousing and Data Mining? Explain the term ETL (extraction, transformation and loading) used in the creation of a data warehouse.

University of Mumbai Jamualal Bajaj Institute of Management Studies

Part Time MIM (Systems)-II Data Management & Systems Software

Date: 24 April (2009 Duration: 3 hours

Marks: 100

Note:

- 1. Attempt any five questions from 1 to 7. Question 8 is mandatory.
- 2. Questions numbers 1 to 7 carry 15 marks each.
- 3. Question number 8 carry 25 marks.
- 1. Explain the four characteristics of data warehousing with respect to (a) subject oriented, (b) integrated, (c) time variant, and (d) non-volatile
- 2. Describe in details the traditional three major database models with suitable examples. What county and beginning a "
- 3. How does data partitioning (both vertical and horizontal) provide data granularity? What is the advantage of creating granular database for a typical retail enterprise or an airline company?
- 4. What are virtual machines? Give two advantages and disadvantages of having a virtual machine. Explain or describe Java virtual machine.
- 5. How does a web application work? Explain with suitable diagram how a single tier and multi-lier application work? What is two phase commit? How does 'roll back / roll forward' and the second tital and an
- 6. Explain each of the following term with suitable example: (a) multi-processing, (b) multitasking; (c) multi-threading; and (d) multi-programming.
- 7. What is an operating system? Name the major components in any operating system. Explain briefly role of any two components in the operating system.
- Write Short notes on (Any five).
 - a. ER diagram

- b. Database Schema (physical, conceptual & external)
- c. Online Transaction Processing (OLTP)
- d. Online Application Processing (OLAP)
- e. Centralized processing
- f. Decentralized processing
- g. Distributed processing

University of Mumbal amnalal Bajaj Institute of Management Studies Child Part Time MIM (Systems)-II Data Management & Systems Software Marks: 100 Date: 24 April 2007 Duration: 212 hours Note: 1. Attempt any five questions. 2. All questions carry 20 marks each, and Pescribe in details various database models (Explain advantages and disadvantages of relational database model over other? 2. What do you understand by the term static (archival) and dynamic (live) data? Describe Data-warehousing and Dafa Mining? Explain its role in MIS and DSS. Explain the term primary key, secondary key and foreign key, Explain how these key help in linking data between different tables within a database. Explain normalization of Data What is the purpose or need for creating an operating system? Describe at least four primary functions of an operating system 25. Discuss in detail multiprogramming, Multitasking, Batch Processing and real time processing. Describe the need for the following with suitable examples a. Utility software b. Device drivers 7. Write Short notes on any two: a. Online Transaction Processing (OLTP) b. Centralized processing Distributed processing

UNIVERSITY OF MUMBAI IAMNALAL BAJAJ INSTITUTE OF MANAGEMENT ST

MIM - SECOND YEAR , SECOND SEMESTER EXAMINATION APRIL / MAY 2006

DATA MANAGEMENT AND SYSTEMS SOFTWARE

Note: Solve any five questions out of eight All questions carry equal marks

Date: 29.04/06

100 marks: Shrs.

- Q. 1. Explain the concept of Database with its objectives an importance? What are the different types of Databases? What is the Distinction between convention files and data base files?
- Q. 2 A. Briefly explain the concept DBMS? B. What is Data Model? Explain the three models of DBMS i.e. Hierarchical / Network / Relational with examples?
- Q. 3 What is Normalization? Describe the process of normalisation with examples?
- Q. 4 Explain in detail the meaning and objectives of a data warehouse? What are its characteristics and advantages?
- Q. 5 What is System Software? Discuss different types of system software's with an examples?
- Q. 5. A. What are the different compenents and purpose of an operating system ? B. Explain the concept of Time sharing / Batch Processing / Real time / Multitasking
- Q. 7 Explain in detail the concept of Decision Support System with examples?
- Q. 8 Write short notes on (Any Four)
 - Knowledge Management
 - 2. Application Software's
 - 3. OLAP
 - 4. OODBMS
 - 5. Utility software's
 - 6. DDBMS

06

University of Mumbai JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES Three Year Part-Time Mas(er's Degree Programme (MIM) Second Year – Second Semester Examination – 2003-04

Data Management & Systems Software

Date : 20th May 2004

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

Marks: 100

Section A (Marks 50) Data Management

Note: 1) Please read the questions carefully before answering

2) All questions are compulsory

3) Please answer all questions in the same order.

Course P

Les cheefque

- Q.1. Define and differentiate in the following: (10 Marks)
 - a) Data and Information man be accoming a plant a week
 -) Hierarchical and Relational and thousand and the
- Q:2. Discuss the following concepts brief y with examples (10 Marks).
 - a) Single User and Multi User
 - 5) Batch-System and On-Line System -
- Q.3. Please discuss in brief the need for databases, the benefit's advantages and their usage along with illustrations. Also discuss the storage and retrieval in an RDBMS.

 (30 Marks)

Section B (50 Marks) Systems Software

- Q.f. What is an OS? Define and discuss is objectives and functions. (15 Marks)
- Q.2. What do you understand by Time Slaring System and Real Time Operating System? (20 Marks)
- Q.3. Explain what you understand of: (I: Marks)
 - a) Assemblers
 - b) Compilers
 - LY Resource Allocation v/s Resource Deadlock

500

University of Mumbai

Jamnalat Bajaj Institute of Management Studies, Masters in Information Management,

Systems Software & Data Management - May 2003.

Date: 20th May, 2003

15

Time: 3 Hrs. staryman Marks: 100

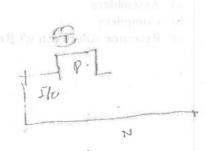
- There are 2 sections.
- Each section has 7 questions.
- Each question carry equal marks.
- Attempt all of them.

Section I - Systems Software

- 1) Suppose that we have a multiprogrammed computer in which each jeb has identical characteristics. In one computation period, T, for a job, half the time is spent in I/O & other half in the processor activity. Each job runs for a total of N periods. Assume that a simple round-robin priority is used & that I/O operations & can overlap with processor operation. Define the following quantities
 - a) Turnaround time = actual time to complete the job
 - b) Throughput = average number of jobs completed per time period T.
 - c) Processor Utilization = percentage of time the processor is active (not waiting)

Compute these quantities for one, two and four simultaneous jobs assuming that the period T is distributed in each of the following ways:

- a) I/O first half, processor second half
- b) I/Q first & fourth quarters, processor second & third quarters.
- 2) Describe the major activities of an operating system with respect to process management, Also justify their existence for a computing machine.



University of Mumbai Jamnalal Bajaj Institute of Management Studies

Part Time MIM (Systems)-II Networking and Telecommunication

Date: 22 April 2010 Duration: 2 ½ hours

Note:

Attempt any FOUR questions.
 Each question carries 25 marks.

Marks: 100

7

a. Describe the three fundamental elements involved in data communication.

b. Explain briefly various tasks performed such as Data System Utilization, Interfacing, Signal Generation, Synchronization, Exchange Management, Error Detection & Correction, and Flow Control and its purpose in data communication.

2

- a. What is a computer network?
- b. What are network protocols?
- c. Name the seven layers of OSI model
- d. Explain the function of each of these layers using appropriate protocols.

3.

- 7a. Explain using a single network diagram the following network devices
 - i. hub,
 - ii. repeater,
 - iii. bridge,
 - iv. router, and
 - v. switch.
- b. What are network interface cards a
- c. Explain briefly different types of network interface cards with suitable application in the industry.

4.

- a. What does VSAT mean to business?
- b. How does it work?
- E. What are the various applications for which VSAT technology can be used?
- d: What are its alternatives and explain briefly when to choose VSAT technology over its alternatives?

5.

- Describe briefly two advantages and two disadvantages of star, bus, ring, and mesh topologies.
- b. Describe local, wide, campus and metropolitan area networks giving suitable application for each one of these.
- Describe client-server, net-centric and web-centric architecture with suitable examples.

UNIVERSITY OF MUMBAL JANINALAL BAJA) INSTITUTE OF MANAGEMENT STUDIES

THREE YEAR PART-TIME MASTER'S IN MANAGEMENT STUDIES MHRDM/MMM/MIM/MEM EXAMINATION MIM BYEAR USENESTER 2006 - 2007

SUBJECT: NETWORKING & COMMUNICATIONS

DATE: 25th APRIL 2007 Note: Attempt any 5 questions. Marks Write a Short Note on any Lepics a) Why do we need for Ne works? b) Proprietary Technology V/s Open Technology c) Analog and Digital Signals, their comparison A) Noise and Altenuation of signals and measures to reduce e) Various bodies that form standards for networking & communication Describe OSI Reference Model and functions at each layer. How error correction is handled in OSI reference model. Local Area Networks a) Describe various topologies for LAN (b) What are the media's used for LAN and their choice (e) CSMA/CD and how Ethernal tackles it di Eunctions of Hub, Bridge and Switch Wide Area Networks a) Various alternatives for connectivity between locations b) Choice of topologies (A) Routing Protocols and their selection d) Performance Criterion for WAN Network Addressing a) What is MAC Address, it's structure b) IP Addressing Scheme, Class A B C Networks c) Subnet Mask and Galeway d) Using subnet mask to: Split a class C network Combine more than one class C network Write Short Notes on any A of following: a) DHCP How does it efficiently used IP addresses b) VPNs- their utility ATM Technology d) Circuit Switched and Packet Switched Networks

e). Voice Over IP

UNIVERSITY OF MUMBAL JAMNAUAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES

MIM - SECOND YEAR, SECOND SEMESTER EXAMINATION APRIL / MAY 2006

NETWORKING AND COMMUNICATIONS

Mark	e :	Solve any five questions out of eight All questions carry equal marks		Date: 2/05/06 100 marks; 3hr
ero sa sin	pamena	radicto ondo troducio de vida con independental altera a tradicion ao auto que mais carpos estretos tradicios d	ACCOUNTS AND THE STREET	ger geographic to the company of the
Q.	1 /	A. Define the term communication? How do data communications? Explain the process	ss of telecommu	mications differ from numication?

- B. What advantages and disadvantages are associated with the use of
- client / server computing? Q. 2 What is protocol? Describe the objectives and distinguish between OS and TEP / IP protocols?
- What is switching networks? Explain different types of switching networks with examples? Elaborate the concept of frame relay?
- Explain in detail the various types of communication networks with examples?
- "Internet has changed the cuttook of communication explain giving advantages and disadvantages of Internet communication?
- What are the business applications of telecommunications? 0.6
- Describe the followings ? (Any Two) 0.7
 - A. Ethernet
 - B. Data Warehousing
 - C. Network Operating System
 - D. Components of client server applications
- Describe the followings? (Any Two) 0.8
 - A. Electronic Data Interchange
 - B. Transmission Mode and Directions
 - C. Emerging Technologies in Telecommunications
 - D. ISDN

Date: 2/05/06

University of Mumbal

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES -- Three Year Part-Time Master's Degree Programme (MIM)

Second Year - Second Semester Examination - 2003-04

Networking &: Communication

and the control of th	2.00 p.m. to 5.00 p.m.	Marks: 100
otes:	•	
This paper is for 75 Marks. Assignme	ent carrien 25 Marks (Total 100 M	arks)
Please attempt any 5 questions		
		Marks
Write short notes on any of 5 topies	3	3x5=15
List Need for Networks	1 1 2 40 C Balanaras cruy	
(b) Advantages of open standards vi	s a vis proprietary technology	
c) Modulation, it's need and method		
, d) MAC addressing	for the same of	
LET VPN9		
D-Circuit Switched and Packet Swit	tched Telecom Networks	thine grains
gi Advantages of digital signals over		
Picture descript a comment of	nun zaszar francis de volt s	
A) Match the correct pairs:		
a) IEEE) MAC Address	1
b) International Standards Org.	1) Frames	1
c) NIC	:) Reference Model	1
d) Layer-3) Standard 802.3	1
e) Layer-2) Packets	1
B) Fill in the blanks:		
1) On 100Mbps LAN UTP cat5 ca	ble can be used up tometers	. 1
2) First six digits of hexadecumal N		1
3) Subnet mask for a Class B netw		1
4) Leased lines are available from		1
5) PPP protocol is used for		1
C) Write full forms, relevant to Net		
1) TCP/IP		1
2) ATM		1
3) ISDN		1
4) FDDI		1
5) OSPF		1
7		
Describe OSI reference Model and v	various layers. Elaborate on	15
functions of Layers 1 to 4 and error		
distribution of surjets it to it made street	3 mg	
Describe following:	Keroli aji a k	
A) LAN topologies and advantages		5
B) Collision CSMA/CD and ways to	Vininiraize	errorrani i 5
	and Reidae	3

Jamualal Dajaj Institute of Management Studies MIM I Year 2004

Networking & Communication

-	Tresposans & Communication	0.01 2.452	31	lours
5	Explain:	5.		
	a) IP address, subnet mask and gateway 2/16M 8 1 1 8) only b) Explain Class A, B and C Networks			3 3
				3
	c) How can you use subnet mask to split a class C network?			3
	d) How can you do supernetting?			8 3
	e) Difference between internal IP address and valid IP			3
6	Describe following:			
	a) WAN Topologies and selection criterion	No Salata		- 5
	b) Routing Protocols and selection criterion			5
	e) Choices available for connectivity e.g. eased line and selectio	EI HASI		5
	criterion for the same (1991) (1992)			
7	Evaluing following found I would have Notice to		a	
/	Explain following for a Local Area Network	opol. Mag.		
	a) Choice of Media available, working principal	O MAL		5
	b) Speed and Distance limitation for various media			5
	c) Address resolution in a LAN			5
	Lamber 1 and 1 and 1 and 1 and 1			
	augus Obs Retigion o Model of for Minhor			

Routing and Switching Triphings the difference

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University of Mumbai Jampalal Bajaj Institute of Management Sciences MIM - Had Year - Second Semester

Subject: Networking and Communication

Date: 20th May, 2003

Time: 2.00 to 5.00p.m. (3 hours) Maximum Marks: 100 1. Define the following (8 * 1 = 8 Marks) a. ATM b. ppp c. OSI g. NetBEUIh. ISDN Write Notes on (8 * 4 = 32 Marks) VPN b. LAN Topologies c. LAN Communication Devices d. MAC Address and LAN Addressing of an assembly communication 3/ Discuss Spanning Tree Protocol (10 Marks) Describe in Detail the OSI Reference Models (15 Marks) 5. Discuss TCP/IP Addressing Mechanism, Classes and IP Sub-netting, Super netting. Advantages of such addressing mechanisms (20 Marks) 6. Discuss Routing and Switching. Highlight the differences between them (5 Marks) 17. Discuss DNS and DHCP as TCP/IP Services (5 Marks) 8/ Differentiate between LAN and WAN and also highlight the differences between the Protocols used in these two technologies. (5 Marks)

Section II - Data Management

- 1) Compare the relational, hierarchical & network model of data organization. Describe the capabilities that should be provided by a DBMS.
- 2) Composite & Multivalued attribute can be nested to any number of levels. Suppose we want to design an attribute for a student entity type to keep track of previous college education. Such an attribute will have one entry for each college previously attended, and each entry will be composed of college name, start & end dates, degree entries (degree awarded at any college, if any). Each degree entry contains the degree name and month, year & grade. Design the attribute hierarchy to hold this information.

Now, Assume that the same information has to be stored in relational tables instead of single attribute, what would be table structure.

3) Consider the relation

(Coursell, Univ Section#, Instructor Manne. BuildingCode, Room#, TimePeriod, Weekdays, CreditHours)

This represents the classes taught in a university, with unique Univ_Section# Identity what you think should be various candidate keys. and also describe the constraints under which each candidate keys should be valid.

4) Consider the relation for published books.

BOOK (Book_Title, Authorname, Book_Type, ListPrice, Auhor_attil, Publisher)

Author_affil refers to the affiliation of author. Suppose the following Their war dependencies exist:

Book_Title → Publisher, Book Type Book Type > Listprice Authorname → Author affil

a) What normal for the relation is in?

b) Apply normalization until you cannot decompose the relation further. State the reasons behind each composition.

(5) See below a & b.

- a) What is the system log used for? What are the typical records in a system log? What are the transaction commit points & why are they important?
- b) Discuss the scrializabilty of schedules?

6) See below a & b.

a) Discuss the ACID properties of the transaction?

- b) Describe the violations caused by each of the following dirty read, repeatable read & phantoms.
- (7) Discuss the different file organization that can be used to store information.

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Part Time MIM (Systems)-II Data Management & Systems Software

Question Pool from different topics within syllabus based on presentations

Part 1: Data Management

- 1. Name and explain any two relational operators used in RDBMS. [Hint: Join, Union, Select, Product, Division, Intersection, Division, etc.]
- 2. Write a brief note on Normalization with suitable example to explain first, second and third normal form.
- 3. What is structured query language (SQL)? List any three operators and three functions used for SQL statement and explain the same with suitable example.
- What do you understand by the term "indexing"? Name and explain any two types of indexing.
- Describe different types of database models. Explain advantages and disadvantages of relational database model over others.
- 6. What do you understand by the term static (archived) and dynamic (live or transactional) data? Describe Data-warehousing and Data Mining? Explain its role in MIS and DSS.
- 7. Explain the term primary key, secondary key and foreign key. Explain how these key help in linking data between different tables within a database. Explain normalization of Data.
- Distinguish between RDBMS, OODBMS and ORDBMS with respect to feature support, usage, sq language, and performance.
- 9. Write Short notes on any two:
 - a. Online Transaction Processing (OLTP)
 - b. Centralized processing
 - c. Distributed processing
 - d. Data Modeling (Physical, logical and conceptual)
 - e. Stored procedure and triggers
 - f. Concurrency control and locks

Part 2: Systems Software

- Explain briefly (i) Process Management, (ii) Main-Memory Management, (iii) File
 Management, (iv) I/O System Management, and (v) Secondary Storage Management present
 in an operating system.
- 11. What are utility programs within an operating system? Explain briefly any three of the following (i) Start Menu, (ii) Taskbar, (iii) Windows Explorer, (iv) Internet Explorer, (v) Search, (vi) Windows Disk Defragmenter, (vii) Event Viewer
- 12. What are device drivers? Name and explain any two device drivers.
- 13. What is the purpose or need for creating an operating system? Describe at least four primary functions of an operating system?
- 14. Discuss in detail multiprogramming, Multitasking, Batch Processing and real time processing.
- 15. Describe the need for the following with suitable examples
 - a. Utility software
 - b. Device drivers

MIM [THANS - DBMS CITENGER) Question Bank on Data Management and Systems Software for MIM-II P'I

Data Management

- O1 Explain advantages and disadvantages of relational database model.
- Q2. Describe in details the traditional three major database models with suitable examples.
- Q3. Describe in details the ACID (Atomicity, Consistency, Isofation, Durability) Principle.
- Q4. What are the key factors that a systems manager need to consider while procuring a DBMS or an enterprise?
- Q5. What is ODBMS? How is it similar to ORDBMS?
- Q6. What is Data-warehousing, Data Mining, Data cube and data mart? Explain with suitable example.
- Q7. What is Structured Query Language? What are the key parts of an SQL (DDL, DML & DCL)? Explain each one of them in brief?
- Q8. Explain different normalization process for data management within a database? 124
- Q9. What is two phase commit? How does 'roll back / roll forward' and 'commit' work?
- O10. Write Short notes on:
 - a. ER diagram
 - b. Database Schema (internal and exfernal) (physical, conceptual & external)
 - c. Online Transaction Processing (OLTP)
 - d. Online Application Processing (OLAP)
 - e. Centralized processing.
 - f. Decentralized processing
 - g. Distributed processing
- Q11. What do you understand by the term "triggers" and "stored procedures"? How do they
- Q12. The statement "study of data warehousing is said to be subject oriented while that of dynamic data or operational database is application oriented". Justify this statement with suitable
- Q13. How does data partitioning (both vertical and horizontal) provide data granularity? What is the advantage of creating granular database for a typical retail enterprise or an airline company?
- 014. What does the term such as "primary key", "secondary key", "super key", and "foreign key" stand for in the study of database management system? Explain with suitable example on how they work in connecting tables within a DBMS.
- Q15. How does a web application work? Explain with suitable diagram how a single tier and multi-tier application work?
- Q16. Explain the four characteristics of data warehousing with respect to (a) subject oriented, (b) integrated, (e) time variant, and (d) non-volatile 017.

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Systems Software

Q1. Explain the need for device drivers (system software) with suitable example.

Q2. Explain the need for utility software with examples.

Q3. Explain each of the following term with suitable example: (a) multi-processing; (b) multi-tasking; (c) multi-threading, and (d) multi-programming.

Q4. Differentiate/Discuss in detail multiprogramming, Multitasking, Batch Processing and real time processing.

Q5. What is the purpose or need for creating an operating system? Describe at least four primary functions of an operating system?

O6. Differentiate between Application software and System Software.

Q7. What is an operating system? Name the major components in any operating system. Explain briefly role of any two components in the operating system.

Q8. What do you understand by the terms: (a) process management, (b) file management, (c) device management, (d) memory management, and (e) I/O management with reference to an operating system?

Q9. Write Short notes on:

- a. Device Drivers
- b. Utility Software
- c. Batch processing
- d. Time-sharing system
- e. Real-time system

Q10. What are virtual machines? Give two advantages and disadvantages of having a virtual machine. Explain or describe Java virtual machine.

University of Mumbai

Jamnalal Bajaj Institute of Management Studies

Networking and Communication

MIM - II Year (Part Time Systems) Second Semester

Date: 18th April 2011 Duration: 2 hours

Marks: 50

Note:

- 1. Attempt all questions
- 2. Question number 1 carries 10 marks (2 mark each)
- 3. Question number 2 carries 40 marks (10 marks each)

Q.1. Answer any five of the following: (2 mark each)

- 1.1. Explain the term Bandwidth, Data Terminal Equipment (DTE), and Data circuit-terminating equipment (DCE).
- 1.2. What is your understanding about the term Amplitude modulation, Frequency modulation and Phase modulation with suitable diagram?
- 1.3. What is your understanding about the term CODEC and MODEM using suitable example?
 - 1.4. Explain at least three transmission media each for wired and wireless with suitable examples.
 - 1.5. Explain the term 'Switch' and outline at least two major characteristics of it.
 - 1.6. What is Network Address Translation (NAT) and what is its role in a network?

Q.2. Answer any four of the following: (10 marks each)

- 2.1. Describe 'wired' and 'wireless' communication with suitable diagram describing Ethernet, token ring, FDDI, ATM, Bluetooth, Wi-Fi, Wi-Max and VSAT technologies.
 - 2.2. Write note on VSAT covering its characteristics, technologies, advantages, disadvantages, and applications. •
 - 2.3. Describe the role of each layer present in ISO's OSI Model for managing heterogeneous network. How does it compare with TCP/IP model?
 - 2.4. What does the term 'network topology' and 'network architecture' mean? Explain at least four types of topology and four types of architecture with one or more suitable diagram giving their advantages, disadvantages and application in real world situation.
 - 2.5. Describe network management with respect to its performance, fault, configuration, security and quality of service (availability).

UNIVERSITY OF MUMBAI

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES Second Year (Second Semester) 2009-2010 MIM

Subjects: Software Project Management & IT Resources Management

Friday, 23-04-2010	(3 Hou	rs)	(Total Marks 100)
(i) Answer any FIVE questions (ii) Supplement your answers w (iii) All questions carry equal m	ith live examile	S. Aham	to a supplement your answers
	. 1		
Q1) Explain any TWO of the fo	llowing;		
(a) Role of quality in project (b) Multi-Skilling in projects	s neocuje, Desc		
(c) Distinguish between: SD(d) Disaster Management	LC Vs Service	life cycle	211 Ways a projects fail? Em
Q2) Define Project Management	What are key		
(2) Define Project Management	What are key	phases in a p	mast hove tonecond the
(Q3) Describe the role of metrics			
rpletion. Jester			
Q4) What are the common cause	s of failure in a	project? Enu	merate measures.
Q5) Project planning is a crucial	phase in manag	ging projects.	Explain in detail.
(4.30)		11100	(a) Competency Managem
Q6) Risk management is an inte	gral part of proje	ect managem	ent. Justify, or amount of the
()7) Write short notes on any FC	IIR of the folio		
(7) White short hotes on any 1 c	OIL OI IIIC IOIIC	110.61	which to be the
(a) Project reviews			
(b) Productivity			Programme Control
(c) Contingency			
(d) Customer interactions			
(e) Competency Managemer(f) Project Charter	insternent within		
(g) IT resource management (h) Outsourcing	,		
Q8) Explain the importance of se	ecurity manager	nent within I	T projects.

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES UNIVERSITY OF MUMBAL human MIM II SEMESTER II

SOFTWARE PROJECT MANAGEMENT AND RESOURCES MANAGEMENT

DURATION 3 HRS TOTAL MARKS 100

19th April 2011

(i) Answer any FIVE questions

(ii) Supplement your answers with live examples.

(iii) All questions carry equal marks

- Q1) Define Project Management. What are key phases in a project life cycle?
- Q2) You cannot improve what you cannot measure. Describe in context to project management..
- O3) Why do projects fail? Enumerate measures.
- Q4) One cannot avoid 'Planning' in managing projects. Explain in detail.
- Q5) Risk management is critical for successful project completion. Justify.
- Q6) Write short notes on any FOUR of the following:
 - (a) Competency Management
 - (b) Outsourcing hard management and land land land
 - (c) Multi-Skilling in projects
 - (d) Distinguish between: SDLC Vs Service life cycle
 - (e) Project reviews
 - (f) Productivity
 - (g) Contingency
 - (h) Customer interactions
- Q7) Explain the importance of security management within IT projects.
- Q8) Explain any TWO of the following:
 - (a) IT resource management
 - (b) Project Charter
 - (c) Role of quality in projects
 - (d) Disaster Management

University of Mumbai

Jamnalal Bajaj Institute of Management Studies Second Year Second Semester 2008-2009

MIM

Sub: Software Project Management & IT Resources Management

Tuesday, 28-04-2009

(3 Hours)

(Total Marks 100

Notes: a) Answer any Five Questions

- b) All questions carry equal marks
- c) Total Marks: 100

on participate

- 1) What do you understand by Project Management and its frame work?
- 2) Describe tools and techniques used during project life cycle and its importance
- 3) Assume you are a Project Manager of ERP project, What will be the critical success factors you would consider and what are the precautions you will take in selecting the team members.
- 4) If you are a project leader what are the qualities you should have and various factors you consider to deliver the result as per the project schedule.
- 5) What are the issues you face as a Project Manager during the implementation of project and What are the common causes of failures in project and how do you over come them
- What do you under stand by Change Management and its importance in organistion and project management
- 7) Explain Project Cost Management and Project Time Management
- 8) Write Short Notes on following any two
 - a) Optimisation of resources b) Help desk c) Out sourcing

UNIVERSITY OF MUMBAL JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES MIM- SECOND YEAR SEMESTER - II

SUBJECT SOFTWARE PROJECT MANAGEMENT AND IT RESOURCES MANAGEMENT

DATE: 3 RO MAY, 2006 TO JOHN MARKS 5100 LOS Y DECOTIME S HOURS

NOTES:

1. GUESTION NO.1 IS COMPULSORY SERVED TO 18

2. SOLVE ANY 6 QUESTIONS FROM Q2 TO Q9

3. QUESTION NO.1 CARRIES 28 MARKS

4. ALL OTHER QUESTIONS CARRY 12 MARKS EACH

5 PLEASE MENTION CLEARLY ASSUMPTIONS MADE, IF ANY, WITH JUSTIFICATIONS.

6. ANSWERS SHOULD BE PRECISE AND TO THE POINT

Q1. Smart Infotech Ltd, is a fast growing IT company that has just won a project against stiff competition for setting up an on-line book store system. Due to the changes in the requirement at the last minute during commercial negotiations at the project finalisation stage, the marketing team had done some quick cost estimates. Since the project is now inhouse after the contract has been bagged, the division head has issued instructions stating that prior to the beginning of the execution of the project, the estimates of the marketing department need to be revisited by the project manager. The company is growing and it needs 10 days to recruit or internally manage the resources as per the skill sets required for this project and specifically mentioned in SRS. Further the number of resources will become clear after the project planning is completed. Deployment of multiple programmers for coding will take 10% more time for this activity. Recruitment/transfers will take 10 days. The project team can be effective after 5 days of intensive training. While DFD preparation and analysis will take 8 days, the FP calculation & SRS will take 15 days each. Thereafter the detailed project planning activity will take 10 days. HLD/DD review and system test/integration test will need 15 days each; totaling to 30 days for these two Once the acceptance test HLD/DD together will take 20 days. activities. lasting over 7 days is completed, the project can be handed over after 10 days. Actual documentation will also be completed in this period. Coding will take 35 days for one person. All the number of days mentioned above are person days.

The division head wants you, as a project manager, to complete the following activities:

- Drawlip a phose wise project plan His assessed
- Prepare an activity network ii)
- Prepare an activity bar chart iii)
- Find out the number of resources needed Prepare an allocation table for resources
- Prepare staff allocation vs time chart

UNIVERSITY OF MUNIBAL JAMNALAL BAJAL INSTITUTE OF MANAGEMENT STUDIES

DATE: 21^{ST} MAY, 2004

TIME: \$.00P.M. TO 5.00P.M.

N.B.: ATTEMPT Q(1) TO Q(4) AND ANY FOUR FROM THE OTHERS ANSWERS TO THE QUESTIONS SHOULD BE BRIEF

Q(1) Mikado Solutions is a software development organization based at California. They want to develop a software for heir client Pegasus Network Technologies, who are network solutions provider to various organizations. After defining the objectives clearly and specifying assumptions made by you, briefly work out the various steps as	(20)
to how you would go about executing this project, giving details of the study, defining the scope, identifying and evaluating problems constraints, resources required, cost and time involved, the quality aspects and the completion activities.	* :
Q(2) Fill in the blanks of any FOUR of the following: (a) Project is —— (Temporary, Depending on Clients requirement, Permanent) (b) Projects mainly involve —— (Fer ale, Equipments, Money) (c) Project Creep means project been less —— (Bigger, Smaller, A Change) (d) Activities in Projects can be —— (In parallel, In sequence, Both) (e) FERT uses —— time (Weighted Average, Optimistic, Most Likely) (f) Late Start & Late Finish is a —— pass (Backward, Forward, Normal)	(8)
(g) For success in Projects, we should —— (Plan Well, Control Resources, Execute Efficie (h) Ideal Projects Organization is —— (Functional Type, Project Wise, Matrix Type) O(3) Explain with reasons any ITWO of the following:	ntly)
Property Land should foous on Customer Need and Quality. (b) It have a secunificant in Projects. Distriction is very important in Project Mgt. (c) Language and Customer Need and Quality.	ř
(a) Phoject Managers functions and responsibilities. (b) Project Development Life Cycle (c) Functions of a Systems Analyst. (d) Ganti Chart.	(12)

- Q2. (a) What is a software memo? How and Why is metric used in software project management?
- Q2. (b) Explain the functions and roles of modern IT department.
- Q3. (a) Explain the key issues in maintaining the following It resources
 - (i) Mainframes (ii) Software professionals
- Q3. (b) Why should an organization have an IT policy? What are the contents of a typical IT policy?
- Q4. (a) What is IT security? Explain the issues to be considered while planning application security.
- Q4. (b) What are the common causes of failure in IT projects? How can one overcome them?
- Q5. (a): What is PDB? Explain with example its purpose and use.
- Q5: (b) If a program for an application costs 'C' the software developed for this application cost 9C'. Explain by giving an example.
- Q6: (a) What is SCM? What are the items covered by SCM?
- G6 (b) What is PCB? How is it developed? What is its use?
- Q7: (a) What are the various models of software development? Explain any one of them in detail.
- Q7. (b) What is a function point? How is it used for size estimation?
- Q8. (a) Compare and contrast software project management with project management for the brick and mortar projects.
- Q8. (b) Explain the concept of use case. How are use cases usef for size and effort estimation?
- Q9. Write short notes on (any three)
 - (a) SRS
 - V & V (d)
 - (c) CMM
 - (d) Process Assets
 - (e) Disaster Management
 - (f) Strategies in migrating to new technologies

- Q2. (a) What is a software metric? How and Why is metric used in software project management?
- Q2. (b) Explain the functions and roles of modern IT department.
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- Q9. Write short notes on (any three)
 - (a) SRS
 - V&V (d)
 - (c) CMM
 - (d) Process Assets
 - (e) Disaster Management
 - (f) Strategies in migrating to new technologies

0		
Q(5) (a	Define Project Management. What are the concepts of Project Mgt.? b) Explain the main constraints of Project Management	(12)
Q(6) (a	What is a Work Breakdown Structure? Explain the use of it? b) How and when do you create a WBS? Explain.	(12)
ALC: N		
Q(?) (a	Define Activity. What is the importance of sequencing? b) What are the critical elements of a good Project Plan? Explain.	(12)
		*
Q(8) (a	a) Explain the PERT Method used in a Project. What is CPM? b) How can you reduce the project ime? and at what cost? Explain.	(12)
*		
Q(9) (a) Budgeting is an important exercise in Project Cost Management, Explain, b) What is Earned Value Analysis? Why is it the preferred method for	(12)
N. Carrie	measuring project performance	
Q(10)	(a) Petimates and selectules of Manbower Resources are very critical in a	(12)
67113	The Cost estimated in a Software Project? and why? (d) The plant the key project processes and outputs of the Project Closing Process.	(12)
\$4\\—\\\	The Before completion of the project what is the role & conduct of Audit?	. , 8
	September 1 and 1 and 1 and 2	
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University of Mumbai Jamnalal Bajaj Institute of Management Studies

MIM - II Year (Part Time Systems) Second Semister
Data Management & Operating System

Date: 30 April 2014 Duration: 2 hours

Marks: 60

Note:

Attempt any TWO questions from 1 to 3. Each question carries 15 marks.
 Attempt any TWO questions from 4 to 6. Each question carries 15 marks.

Data Management

- 1. List two similarities and two dissimilarities between:
 - a. RDBMS and ORDBMS
 - b. OODBMS and ORDBMS
 - c. OLAP and OLTP
 - d. Data warehouse and Data mart
- 2. Explain RDBMS with reference to Database Normalization. What are Normal Forms? Explain the rules of Normalization.
- 3. What does the term "Data Warehouse" mean to CTO or CIO? Explain the fundamental concept involved in building, operating and transferring a "data warehouse" to any one of these vertical market segment (ticketing in airline OR card issuance based on facilities provided to a customer versus features the bank has OR product marking by an FMCG)

System Software

- 1. Explain the purpose of an Operating System, its feature and benefit using suitable example.
- 2. What is Memory Management? Explain how does it function at the host system using a suitable block diagram?
 - 3. Describe the 'evolution of Operating systems' based on the need for the next generation arising out of short comings of the previous generation.

QP1/2014/DMSS



University of Mumbai Jamnalal Bajaj Institute of Management Studies

MIM - II Year (Part Time Systems) Second Semester Networking and Communication

Date: 2 May 2014 Duration: 2 hours

Marks: 60

Note:

1. Attempt any Three Questions. Each question carries 20 marks.

1. Explain or define in your own words the word "network" as applicable to today's Information and Communication Technology (ICT) industry? Explain with suitable diagram various essential components of a Computer network installed in a medium to large company.

- 2. Explain OSI model with suitable diagram and explain how it is different from the TCP Model.

 Name and explain at least one protocol from network layer to application layer in an OSI model.
- 3. Name and describe any three topologies of a network and three architectures of network using suitable example.
 Differentiate between Circuit and Packet Switching. How and where will you deploy this for the modern telecom company?
- 4. Describe applicable basic components involved in wired and wireless type of Data Communication?

 Differentiate between Analog and Digital signals used data communication. Differentiate between Synchronous and Asynchronous communication.

JAMNALAL BAJAJ INSTITUTE OF MANAGEMENT STUDIES UNIVERSITY OF MUMBAI

MIM II SEMESTER IV

Total Marks: 60

3rd May 2014

Duration 2.5 hrs

Subject: Software Project Management & IT Resource Management

Attempt any 4 from given 8 questions Each question carries equal marks

- 1 Comment on the practices & tools, in controlling of software projects. [15]
 - 2. Comment on different kinds of hardware resources & relevant management issues. [15]
 - 3. Explain the significance of a company wide IT policies.

[15]

- 4. Comment on vendor management. [15]
- 5. Explain the process & aspects of IT budgeting. [15]
- 6. Distinguish between IT management & MIS. [15]
- 7. Explain the different kinds of IT resources. State their classifications. [15]
- 8 Short notes a. Project Management

b. RFP

[15]

c. Waterfall

