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SEAT No. :

P965

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T.Y.B.C.A.

VB. NET PROGRAMMING

.Net Programming

(Semester-V) (2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *All questions carry equal marks.*
- 3) *Draw suitable diagrams wherever necessary.*
- 4) *Design proper GUI.*

Q1) Attempt Any Eight of the following:

[8×2=16]

- a) Explain the printpreviewdialog control in dialog boxes function.
- b) List any two web server control in Asp. Net.
- c) What is data validation in VB.Net.
- d) Explain any two built in- date functions.
- e) What is CLS?
- f) State the difference between data set and data reader.
- g) What is exception?
- h) How to use MDI in VB. Net?
- i) Explain any two properties of Button Control.
- j) Enlist Namespaces in VB. Net.

Q2) Attempt the following (Any Four):

[4×4=16]

- a) Design GUI and write code for following in VB. Net (ADO. Net) without wizard:
 - Accept player-details like player-No, player -name, No- of -runs- Scored, No- of- times-out and save these details in players table.

P.T.O

- b) Design GUI and write code for the following in VB. Net.
- Add items to list box.
 - Remove selected item from list box.
- c) Design GUI and write code for the following in VB. Net.
- Accept a length & height in textbox.
 - Calculate area of rectangle.
 - Display result in Msg box.
- d) Differentiate between value type and reference type.
- e) Explain polymorphism in VB. Net.

Q3) Attempt the following(Any Four):

[4×4=16]

- a) Design GUI and write code for the following:
(ADO. Net) with wizard:
- Accept Item details like Item-No, Item-name, Item rate, Item- quantity and save these details in Item table.
- b) Design GUI and write code in VB. Net for the following.
- Accept two no. in two text boxes.
 - Display prime No. among them in message box.
- c) Explain any four data types with example.
- d) Explain Inheritance & types of Inheritance in VB. Net.
- e) Give difference between overloading and overriding.

Q4) Attempt the following (Any Four):

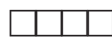
[4×4=16]

- a) What is destructor? Explain with example.
- b) Explain any four advantages of .Net framework.
- c) Enlist operators used for string concatenation with explanation.
- d) Write a program to calculate Fibonacci series of a given number using console application program.
- e) Design GUI and write a code for following in VB. Net using Richtextbox:
 - Change font color of selected text.
 - Change font size of selected text.
 - Exit.

Q5) Write short notes: (Any Four)

[4×4=16]

- a) ADo. Net Architecture.
- b) CLR features.
- c) Input Box.
- d) ASP. Net page life cycle Events.
- e) Satellite Assembly.



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B.C.A.

INTERNET PROGRAMMING & CYBER LAW

(Semester-V) (2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicates full marks.*
- 3) *State assumptions wherever necessary.*

Q1) Solve any eight:

[8×2=16]

- a) Define cyber law.
- b) List the numeric functions used in JavaScript.
- c) What are the types of granularity?
- d) What is the use of `<embed>` tag?
- e) List any four text attributes used in CSS.
- f) Define sand boxing.
- g) What is mean by book keeping?
- h) What is tampering?
- i) List any two methods of server object used in ASP.
- j) What is the use of confirm dialog box in JavaScript?

Q2) Attempt any four of the following:

[4×4=16]

- a) Write an ASP code to print the details of employees living in 'Pune' city. The fields of employee table are empno, empname, salary, city.
(Use JavaScript)
- b) Write on ASP code to accept and stores the details of doctor (docno, docname , hospname). (Use JavaScript).
- c) Explain the structure of HTML program?
- d) Discuss various features added in Window 2000?
- e) What is an Array? Explain declaration initialization of an array in JavaScript?

P.T.O

Q3) Attempt any four of the following:

[4×4=16]

a) Write a HTML code to design the following output.

b) Write a HTML code to design the following output.

Player names

- Cricket.
 - 1) Sachin
 - 2) Dhoni
- Tennis.
 - 1) Saniya Mirza
 - 2) Sayana Nehval

c) Write a JavaScript program to print armstrong numbers between 1 to 1000.

d) Write a note on cyber Jurisprudence.

e) What are the advantage & disadvantage of e-banking?

Q4) Attempt any four of the following:

[4×4=16]

a) Write an ASP code to find factorial of a given number. (Use JavaScript).

b) Write an ASP code to delete the details of customer (cust_no, cust_name, mob_no) whose name starts with letter 'A'. (Use JavaScript).

c) What is the virus? Explain different types of viruses?

d) Explain RSA algorithm?

e) Explain different types of style sheets?

Q5) Attempt any four of the following:

[4×4=16]

- a) Discuss various standard HTTP headers?
- b) Explain different security functions provided by windows NT operating system?
- c) Write a JavaScript code to accept the pincode from user & validate it.
- d) Write a HTML code to design the following output.

User Registration details

User Id

First Name

Last Name

Address

Email-Id

Gender Male
 Female

Mobile No.

- e) Write HTML & CSS code to generate the following output.
(Use external style sheet).

Color Names:

- i) Red
- ii) Blue
- iii) Green
- iv) Pink
- v) Purple



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T.Y.B.C.A.

PRINCIPLES OF MARKETING

(Semester-V) (2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw figures wherever necessary.*

Q1) Explain the importance and Functions of Marketing. **[15]**

OR

Explain product planning and development.

Q2) Explain the bases for market segmentation. **[15]**

OR

Explain the factors affecting the choice of a distribution channels.

Q3) Define Advertising. Explain the characteristics of Advertising. **[15]**

OR

Explain the concept and importance of Marketing Organisation.

Q4) Explain the different types of marketing Environment. **[15]**

OR

Explain the different methods of sale promotion.

Q5) Write short note on: (Any Four): **[20]**

- a) Traditional method of marketing.
- b) Brand name.
- c) Consumer behaviour.
- d) Retailer and wholesaler.
- e) Promotion Mix.
- f) Function Marketing Organisation.

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B.C.A.

CORE JAVA

(2008 Pattern) (Semester-V)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Answer of sub-questions of each question should be attempted at one place. It should not be written separately.*

Q1) Attempt the following:

[2×8=16]

- a) “Can we override a constructor”? Comment.
- b) When sub class cannot access the super class properties?
- c) “Byte code is a machine dependent” true/ false. Justify.
- d) Name the class which is at the top of the exception class hierarchy.
- e) The java.io.File class can be used to read contents of a file. State true or false and justify?
- f) Which method is used to specify containers layout? Write its syntax.
- g) A class required to handle events on Menu and Checkbox. Which listeners should be implemented?
- h) Give syntax of two methods of StringBuffer class?
- i) List memory requirement for boolean type and char type in java.
- j) What is a difference between paint() and repaint().

Q2) Attempt the following (Any Four):

[4×4=16]

- a) What is an interface? How does it differ from an abstract class?
- b) What is AWT? Explain any four classes under java.awt package.
- c) Explain the purpose of checked and unchecked exception.
- d) Write an applet to draw simple temple.
- e) Create a class Birthdate with a parameterized constructor which takes three arguments-date, month and year. Raise an exception if the birth date is invalid.

P.T.O.

Q3) Attempt the following (Any Four): **[4×4=16]**

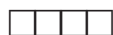
- a) Write a Java program using AWT to print “Welcome TYBCA” in Red colour. When we click on a button the text color should change it randomly.
- b) Write a Java program that displays the count of non-vowels in a given word using command line argument.
- c) What is an Applet? Explain its Lifecycle.
- d) What is an Array? How it differs from Vector?
- e) What is Layout Manager? Explain any one in detail.

Q4) Attempt the following (Any Four): **[4×4=16]**

- a) What is Package? Explain steps to create Package.
- b) Explain wrapper classes.
- c) Comment “Class is logical and object is physical representation of an Entity”.
- d) Create a Package Vehicle, which will have two classes- two wheeler and four wheeler. Two wheeler with method disp (cc, price), four wheeler with method show(regno, reg. year).
- e) Write a java program which demonstrate any four string function.

Q5) Attempt the following (Any Four): **[4×4=16]**

- a) Describe various forms of Implementing Interface. Give example of each case.
- b) Differentiate between Swing and AWT.
- c) State different uses of Super Keywords? Explain with suitable examples.
- d) Write a program to get a file name from command prompt. Check whether a file by given name exists. If file is a regular file then display various details about that file. But if it is directory then display the number of files in that directory.
- e) Write a Java program to accept ‘n’ elements from user and display it in ascending order. (Using Command Line Arguments).



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T.Y.B.C.A. (Semester-VI)

E-COMMERCE

(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *Q. No. 7 is compulsory.*
- 2) *Answer any four from remaining.*

Q1) What is E-commerce? Discuss main activities of E-commerce. **[15]**

Q2) Define internet. Describe reasons for building own website. **[15]**

Q3) Describe concept of intranet. Discuss the role of intranets in B2B application. **[15]**

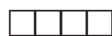
Q4) What is meant by modern payment system? Compare traditional & modern payment system. **[15]**

Q5) Define E-commerce planning. How to link objectives to business strategies? **[15]**

Q6) What is internet marketing? With a suitable diagram describe E-cycle of internet marketing. **[15]**

Q7) Write short notes (Any Four): **[20]**

- a) B2G & B2C.
- b) Web promotion.
- c) Credit card.
- d) Shopping Bots.
- e) E-Governance.
- f) PROS of online shopping.



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[4768] - 602

B.C.A.

**MULTIMEDIA SYSTEMS
(2008 Pattern) (Semester-VI)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Draw diagrams wherever necessary.*

Q1) Answer in short (any eight):

[16]

- a) Digital signals.
- b) BMP Files.
- c) Wavelength.
- d) Flowline.
- e) D.V.D.
- f) Multimedia component list.
- g) S. Video.
- h) MIDI
- i) Animation.
- j) Modes & links.

Q2) Answer the following (any four):

[16]

- a) Define RAID and its levels.
- b) Differentiate hypertext and hypermedia with example.
- c) Explain synthesizer and its use in multimedia.
- d) Explain Graphics/ Image data structure.
- e) Explain application of Multimedia in communication.

P.T.O

Q3) Answer the following (any four): **[16]**

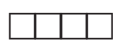
- a) Explain magnetic storage device with example.
- b) Which are different sound I/P and O/P ports?
- c) Describe MIDI files in detail.
- d) Explain Multimedia Development Life Cycle.
- e) Explain guidelines for visual elements.

Q4) Answer the following (any four): **[16]**

- a) Explain GM1 and GM2.
- b) Explain digital audio tape.
- c) Explain four differences between CD & DVD.
- d) Explain PAL in detail.
- e) Explain any two graphics software tools.

Q5) Write short note on (any four): **[16]**

- a) Channel messages.
- b) Types of storyboard.
- c) HD.TV.
- d) DAC
- e) Sampling.



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SEAT No. :

P971

[4768] - 603

[Total No. of Pages :3

T.Y.B.C.A.

**INTRODUCTION TO SYSTEM PROGRAMMING
AND OPERATING SYSTEMS
(Semester-VI) (2008 Pattern)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt Any Eight of the following:

[8×2=16]

- a) List the basic computing resources for the system.
- b) Define the term backing store.
- c) Define claim edge in resource allocation graph.
- d) Define system program.
- e) Why page table is used?
- f) Define process.
- g) Define preemptive.
- h) Define physical address.
- i) Explain command Interpreter.
- j) Define semaphores.

Q2) Attempt any four of the following:

[4×4=16]

- a) Explain in detail implementation of segment table.
- b) Define file: List and Explain file attributes in detail.
- c) List and Explain system calls related to file manipulation.
- d) Explain reader's writer's problem of synchronisation.
- e) Calculate Average Turn Around Time and Average Waiting Time for all set of processes using pre-emptive shortest job first algorithm.

Process	Burst time	Arrival time
P1	6	0
P2	2	1
P3	1	2
P4	5	3
P5	7	2

P.T.O

Q3) Attempt any four of the following:

[4×4=16]

- a) List and explain the scheduling criteria.
- b) Explain multiprogramming system in detail
- c) Explain direct access method of file.
- d) What is deadlock? Explain deadlock recovery in detail.
- e) Consider the following page reference string:-

5, 4, 3, 2, 5, 4, 6, 5, 4, 3, 2, 6,

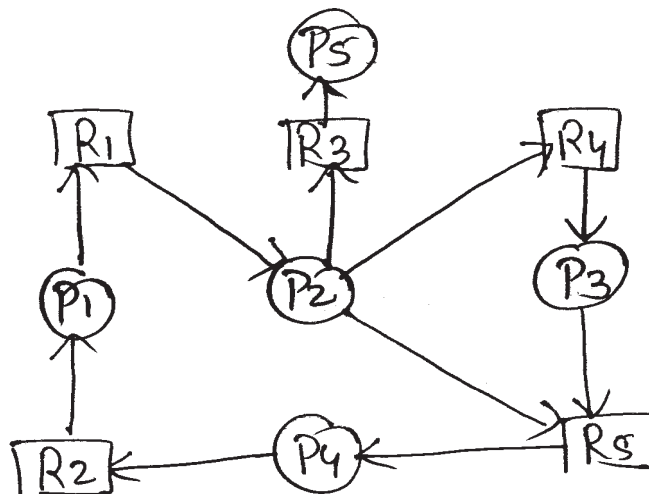
The number of frames is 3. Show page trace and calculate page faults for the following page replacement schemes:

- i) LFU
- ii) FIFO

Q4) Attempt any four of the following:

[4×4=16]

- a) Explain locality model.
- b) Explain contiguous allocation method in detail.
- c) Explain resident monitor.
- d) Explain with diagram multilevel feed back queue scheduling.
- e) What is wait for graph? convert following resource allocation graph into wait for graph.



Q5) Attempt any four of the following:

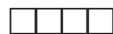
[4×4=16]

- a) Explain queuing diagram which represent process scheduling.
- b) Write a note on memory compaction.
- c) List and Explain types of distributed system.
- d) Assume there are total 200 tracks that are present on each surface of the dist. If request queue is 68, 72, 5, 76, 132, 109, 124 and initial position of the head is 72. Apply C-SCAN disk scheduling algorithm and calculate total head movement.
- e) Consider the following snapshot of system which has 4 processes and four resources.

	Allocation				Max				Available			
	A	B	C	D	A	B	C	D	A	B	C	D
P0	0	0	2	2	0	0	2	2	2	5	2	0
P1	1	2	0	0	1	9	5	0				
P2	2	4	5	4	3	4	5	6				
P3	1	0	1	4	1	6	5	6				

Answer the following questions using banker's Algorithm.

- i) What are the content of matrix need.
- ii) Is the system in a safe state?



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SEAT No. :

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[Total No. of Pages :2

T.Y.B.C.A.

ADVANCE JAVA

(Semester-VI) (2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Answer of sub-questions of each question should be attempted at one place. It should not be written separately.*

Q1) Attempt the following (Any Eight)

[2×8=16]

- a) What is thread?
- b) Give two methods of cookie?
- c) Explain types of servlet.
- d) Define bean?
- e) Write the syntax of comments in JSP?
- f) Define setpriority () method?
- g) What is JDBC.
- h) What are the parameters of doget () method?
- i) What is Hashset?
- j) Define Vector?

Q2) Attempt any four of the following:

[4×4=16]

- a) Explain JDBC Architecture with suitable diagram?
- b) Explain properties of bean?
- c) Explain JSP Scripting Elements?
- d) Write a program which reads in a series of first name and stores them in a linked list. The program should not allow to store duplicate names.
- e) Write a servlet which counts how many times a user has visited a web page

P.T.O

Q3) Attempt any four of the following: **[4×4=16]**

- a) Explain what is servlet? Explain its life cycle?
- b) Explain how thread is created in java?
- c) Explain stub and skeleton.
- d) Write JDBC that inserts a record in employee table. field emp-no, name and salary
- e) Write a program to create linked list of integer and do the following operations.
 - i) Add elements at last position.
 - ii) Delete the first element.

Q4) Attempt any four of the following: **[4×4=16]**

- a) Explain JSP directives with suitable example?
- b) What is cookie? Explain how cookie can be created and stored in servlet?
- c) Explain thread synchronization?
- d) Write JDBC program to delete a record from student table who belong to pune city.
- e) Create a thread which will display prime numbers after every 5 seconds.

Q5) Attempt any four of the following: **[4×4=16]**

- a) Differentiate between ArrayList and vector?
- b) Explain RMI Architecture with suitable diagram?
- c) Explain steps to create jar file?
- d) Write a program to create two threads thread 1 and thread 2 set the maximum priority to thread 2 and minimum priority to thread 1.
- e) Write servlet code to display greeting message to user as per server time.

