

Total No. of Questions : 12]

SEAT No. :

P2363

May-2017

[Total No. of Pages : 2

[5156] - 401

SYMCA (Engineering)
Advanced Web Technology
(2013 Pattern) (Semester-IV)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right indicate full marks.
- 3) Assume suitable data if necessary.

Q1) a) Explain Common Language Runtime along with its component Diagram. [4]

b) Explain Namespaces in Visual C# and how these namespaces are import in the program with an example. [4]

OR

Q2) a) List and Explain Characteristics of Visual C#. [4]

b) Define Managed code and explain advantages of managed code. [4]

Q3) a) Explain Exception Handling along with an example. [5]

b) What is Method Overriding and how it is implemented in C#, Give an Example. [5]

OR

Q4) a) Explain concept of Delegate that is used in C#. [5]

b) Give the Syntax of following loops/Control Statement of C# 2008. [5]

- i) for
- ii) while
- iii) do
- iv) foreach
- v) if else

P.T.O.

- Q5) a) What is Web Based Application and how to create Custom control.[4]
b) Draw and Explain Architecture of Windows Presentation Foundation (WPF). [4]

OR

- Q6) a) Explain Windows Presentation Foundation (WPF) along with its main features. [4]
b) Explain WPF 3.5 Controls (Any four). [4]

- Q7) Explain main features of Silver light. [8]

OR

- Q8) Explain the following ASP.NET controls with example: [8]
a) Validation Control(Any one)
b) Web Server Control(Any one)

- Q9) Draw and Explain Architecture of Windows Communication Foundation (WCF) [8]

OR

- Q10) How you can display Web Application or Website on target server. [8]

- Q11) a) Explain ADO.NET Architecture. [4]
b) Write a short note on LINQ. [4]

OR

- Q12) Explain with example how to access data using XML in Web Application. [8]

++++

Total No. of Questions : 12]

SEAT No. :

P2364

[Total No. of Pages : 2

May-2017
[5156] - 402

SYMCA (Faculty of Engineering)
Banking Financial Accounting & Management
(Semester-IV) (2013 Pattern)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Solve either of question 1 or 2, 3 or 4, 5 or 6, 7 or 8, 9 or 10, 11 or 12 in same answer sheet.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Explain the 3 types of accounts and their related rules used in Accountancy. [6]
b) Explain the concept of Subsidiary books. [2]

OR

- Q2)** a) Explain the types of Subsidiary books with their formats & purpose. [6]
b) Explain the difference between Regular & Analytical Cash Book. [2]

- Q3)** Enter following transactions in the Journal of Rajesh & Company — Stock as on 30th May 2016— Rs. 9500/-, Cash in hand Rs.7500/- and Rs.8500/- in Bank of India account. [8]

1st June 2016 Purchased Goods worth 5000/- with Rs. 2000/- in cash and rest on credit from P & G Distributors.

4 June 2016 Sold Goods worth Rs.2000/- in Cash to Rekha Enterprises.

6 June 2016 Sold Goods worth Rs. 3000/- on credit to Ratnam & Co.

8 June 2016 Deposited Rs. 1500/- in bank account & Paid rent Rs. 3000/-.

12 June 2016 Purchased Goods from Raheja Distributors Rs. 8000/- and gave Rs.5000/- with cheque.

15 June 2016 Paid Rs. 2000/- towards Family Floater Health Insurance of the owner.

17 June 2016 Sold Goods Rs.7000/- on 5% trade discount to M/S. Jaymala Enterprises.

Prepare the journal for above transactions and find out the closing cash, bank balance for the Rajesh & Company.

P.T.O.

OR

- Q4)** a) Explain different types of Ratio Groups and their use by lenders / investors. [6]
b) Explain the motives behind holding of Cash by business. [2]

- Q5)** a) What is Working Capital? How its requirement is calculated? [6]
b) Explain the concept of marginal Costing. [3]

OR

- Q6)** a) How the working capital can be calculated for a seasonal business like selling of Firecrackers / Sweets in Diwali? [6]
b) Explain the various sources of financing the Working Capital requirement. [3]

- Q7)** Explain the role of NABARD in Indian banking industry. [8]

OR

- Q8)** Explain the Fixed Deposit schemes and various aspects related with it. [8]

- Q9)** What is meant by NEFT & RTGS? How these products benefit bank customers? [8]

OR

- Q10)** Explain the concept of Automated Clearing House in India with example. [8]

- Q11)** What do you understand by AAA Banking? Explain with example. [9]

OR

- Q12)** Explain how CBS banking is benefitting the Indian customers? [9]

++++

Total No. of Questions : 12]

SEAT No. :

P2365

[Total No. of Pages : 2

May-2017
[5156] - 403

SYMCA (Faculty of Engineering)
Computer Network & Information Security
(2013 Pattern) (Semester-IV)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right indicate full marks.
- 3) Assume suitable data if necessary.

Q1) Explain Time Division Multiplexing. Justify "Static TDM is better than Synchronous TDM". [8]

OR

Q2) Explain transmission media. Explain about any two Guided & Unguided transmission media. [8]

Q3) Give details of the components mention [8]

- a) NIC
- b) Repeater
- c) Router
- d) Gateway

OR

Q4) Explain Collision Free protocols with neat diagram [8]

Q5) a) Explain ICMP Protocol in detail with diagram [5]

b) Write difference between TCP & UDP [4]

OR

Q6) a) Draw and explain IPv6 in detail [5]

b) Write a short note on ARP [4]

Q7) a) Explain how MIME support Email protocol [4]

b) Write a short note on Firewall [5]

OR

P.T.O.

- Q8)** a) Draw & explain Browser Architecture [5]
b) Write a difference between Static and Dynamic Pages [4]
- Q9)** Explain Diffie Hellman based key agreement protocol [8]
OR
- Q10)** Write a difference between Public Key Cryptography & Private Key Cryptography algorithm [8]
- Q11)** Write a short note on [8]
a) One Time Passwords
b) ARP Hazards
- OR
- Q12)** Explain with neat diagram SSL operations [8]

♦ ♦ ♦ ♦

Total No. of Questions : 12]

SEAT No. :

P2366

[Total No. of Pages : 2

May-2017

[5156] - 404

SYMCA (Engineering)
Information Systems Audit
(2013 Pattern) (Semester-IV) (Elective I)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right indicate full marks.
- 3) Assume suitable data if necessary.

Q1) What are the four major objectives of Information System Auditing? Explain the meaning of each one of them. [8]

OR

Q2) State the types of management controls and application controls. Explain use of one type of management controls and application controls with example. [8]

Q3) Explain briefly encryption techniques used in information system with example. [8]

OR

Q4) a) Briefly explain the risk areas and control used in Electronic Mail Systems. [4]

b) Explain DBMS vulnerabilities and their related controls. [4]

Q5) What is the Software Implementation Review? Explain why it is required? [9]

OR

Q6) Write short notes on [9]

- a) Preliminary investigation and auditor's role
- b) Problem Management
- c) Auditor checking choice made between procurement & development.

P.T.O.

- Q7)** a) What is evidence? What are various evidence evaluation techniques?[4]
b) Explain the various validation controls at field, file and batch level with example. [4]

OR

- Q8)** a) What is Business Continuity Plan? Explain the need of Business Continuity Plan. [4]
b) What is control? What are the 3 types of controls one can have in software? Explain why Preventive controls are not preferred over detective or corrective controls. [4]

- Q9)** a) Define the procedure for implementing IT security Policy. [4]
b) Differentiate between short term plans and long term plans. [4]

OR

- Q10)** a) Explain Security & Privacy Issues addressed in IT security policy. [4]
b) What is role of Steering Committee? Explain in brief. [4]

- Q11)** a) Explain COBIT5 Principles with example. [5]
b) What is a Holistic Approach in COBIT 5? [4]

OR

- Q12)** Explain how a bank which has implemented Core Banking System can implement COBIT 5 framework. Prepare a sample RACI chart for key internal staff members like CFO, GM (IT) or CIO, CISO, GM (CBS), GM(Credit), GM (HRD). [9]

♦ ♦ ♦ ♦

May-2017
[5156] - 408

S.Y.M.C.A. (Under Engineering Faculty)

ADVANCED DBMS

(2013 Pattern) (Semester-IV)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Assume suitable data if necessary.

- Q1) a) Describe Binary Search Algorithm for selection operation. [4]
b) Explain the basic steps in query processing with suitable diagram. [5]

OR

- Q2) a) Explain block nested loop join algorithm with its cost estimation. [5]
b) Explain materialized evaluation with suitable example. [4]

- Q3) Explain pipelined parallelism and independent parallelism in detail with suitable example. [8]

OR

- Q4) Explain the terms: [8]
a) Speedup
b) Scaleup
c) Degree of Parallelism
d) Data server

- Q5) a) What do you mean by distributed database systems? Explain its advantages & limitations. [4]
b) Explain fragmentation and replication in distributed systems. [4]

OR

- Q6) Explain two phase commit protocol in detail with suitable diagram. [8]

P.T.O.

Q7) A college maintains a database for students and teachers. A database schema is as given below. [8]

name: f_name, m_init, l_name

address: street_no, city, state, zipcode

person: name, address, date_of_birth

employee: person, department, designation, date_of_joining, qualification, salary

manager: employee, number_of_employees, skills

Construct an SQL: 1999 schema definition for this database. Use inheritance where appropriate.

OR

Q8) a) Explain type inheritance with suitable example. [4]

b) Explain object identity and reference types in SQL. [4]

Q9) a) Write note on XML Schema. [3]

b) Write xml DTD code to display the bank details. [6]

The elements are bank, customer, and account.

The attributes are account_number, branch-name, balance, customer_Id, customer_name, address, city, state. Assume suitable data.

OR

Q10) a) Write XQuery code using FLWOR expressions to display the employee detail [6]

i) Who have joined before 1st June 2006 and working in the Marketing dept.

ii) With salary less than Rs. 25000

iii) With designation as a programmer

Assume suitable data.

b) Differentiate between HTML and XML. [3]

Q11) Describe Data model & Graph Database model in detail. [8]

OR

Q12) a) Differentiate between RDBMS & NOSQL. [4]

b) Write note on CAP theorem. [4]

++++