

CW-3

10/5/18 (CWE)

Exam. Code : 206704

Subject Code: 5259

M.Sc. Computer Science 4th Semester
ADVANCED WEB TECHNOLOGIES USING
ASP.NET

Paper—MCS-401

Time Allowed—3 Hours]

[Maximum Marks—100

Note :— Attempt FIVE questions. All questions carry equal marks.

1. What are various standard controls to display image and text information in ASP.NET ? How hyperlink controls are used ? 20
2. Discuss the procedure for applying validation controls in form data. How regular expressions are used in validations ? Explain by taking an example. 20
3. What are different calendar operations ? State and explain the method of displaying advertisement. 20
4. What is master page ? Discuss the method of loading master page dynamically. 20
5. How ASP.NET makes connection with database ? Explain the data retrieval using SQL commands. 20

6. What are various parameters available in dropdown list control ? How it differs from bulleted list ? Create a form by inserting dropdown list and bulleted list in it. 20
7. Discuss the following :—
 - (a) Grid view control.
 - (b) ADO.NET
 - (c) Cookies
 - (d) User Profiles. 4×5
8. Explain different methods of caching application pages ?
What is SQL dependency on cache ? Explain. 20

Exam. Code : 206704

Subject Code : 5260

M.Sc. Computer Science 4th Semester

MICROPROCESSOR AND ITS APPLICATIONS

Paper-MCS-402

Time Allowed—3 Hours]

[Maximum Marks—100

Note :- Attempt any **five** questions. All questions carry equal marks.

1. Discuss the detail of different units of Microprocessor and general architecture of microcomputer system. 20
2. (a) Explain the description of different pins of 8088 microprocessor for minimum mode system. 10
(b) Describe the sequence of instruction execution of 8088 microprocessor. 10
3. (a) How memory address apace is organized for 8086/8088 microprocessor ? Explain. 10
(b) What are the major memory control signal for 8088 memory interfacing ? Describe their role. 10
4. Explain the following :
(a) Dynamic RAM system
(b) Read write Bus cycles. 20
5. What is the role of USART chip ? Discuss the block diagram of this chip and role of different units of this chip. 20

6. What is the role of interrupt interface ? Explain the need of IVT in detail. 20
7. Discuss the following :
 - (a) Read bus cycle of 8086
 - (b) Write bus cycle of 8086. 20
8. Write short notes on the following :
 - (a) RS 232 C
 - (b) UART. 20

Exam. Code : 206704

Subject Code : 5261

M.Sc. Computer Science 4th Semester
MCS-403 OBJECT ORIENTED MODELLING,
ANALYSIS & DESIGN

Time Allowed—3 Hours]

[Maximum Marks—100

Note :— Attempt any **five** questions. All questions carry equal marks.

1. (a) What is meaning of behaviour of an object ?
(b) What is Object Oriented Analysis and Design ?
2. What is difference between Specialization, Generalization and Aggregation ? Explain with the help of an example and diagram.
3. (a) What is multiple inheritance ?
(b) What is association ? Explain the difference between unary, binary, ternary or n-ary associations.
4. (a) What is data dictionary ? What is its use ?
(b) Explain the difference between primary, foreign and composite keys.
5. What is Scenario in dynamic modelling ? What is use of Event trace diagram ?

6. What is difference between object model, dynamic model and functional model ? Explain with an example.
7. Draw and explain a DFD for University admission system. Make and write your own assumptions.
8. What do you mean by class diagram ? Where it is used ? Also discuss the steps to draw the class diagram with any one example.