

## / Advance Internet Technology Q. P. Code: 26574

(03 hours )

Total marks: 80

Note: 1. Q.1 is compulsory

2. Attempt any 3 from remaining
3. Assume suitable data if necessary.

Q1 a) What are spiderable link structures? Explain with a suitable example. 10

b) Explain SWOT analysis. List the factors that determine strengths and weaknesses in SWOT analysis. 10

Q2 a) Describe the role of the querySelector() and querySelectorAll() methods in CSS. 10

b) Explain in detail JSON mashup with diagram. 10

Q3. a) What are the characteristics of REST WSs? 10

b) Explain AJAX Web application model. 10

Q4. a) Make a style sheet in which background color of alternate paragraph should be different. 10

b) Define and describe mashups. What are the primary reasons for the success of mashups? 10

Q5. a) Using HTML5 Draw a canvas containing a star. 10

b) Explain characteristics of RIA. Discuss web services. 10

Q6. a) What is media query? How is a media query used? 5

b) What is the role of the hidden field? 5

c) Explain pagination. List its limitations. 5

d) List all the elements of a web page. 5

Note: Question No. 1 is Compulsory

Attempt any 3 Questions from the Remaining Questions.

**Q1**

- a Define Software Engineering and explain Software Process Framework
- b What is CMM? Explain its different levels
- c What is agile development? What are its advantages
- d What is the role of analysis and design in software development

**Q2**

- a What is Prescriptive Model? Explain Waterfall and Incremental Model. How are they different
- b Explain Component Based Development and Formal Methods Model

20

10

10

**Q3**

- a What is agility? Explain its principles
- b Explain XP

10

10

**Q4**

- a Explain core principles of Software Engineering Practice
- b For "Assignment Management System" formulate problem statement. For the formulated problem statement draw Use Case Diagram and Activity diagram for each use case

10

10

**Q5**

- a Explain design concepts in brief
- b Explain quality guidelines and quality attributes of software design

10

10

**Q6**

- a Define Risk. Identify two risks for your final year examination and prepare RMMM plan
- b What is black box and white box testing. Draw CFG for the given PDL and find cyclomatic complexity.

10

10

```

if(c1 or c2)
    do
        s1;
    else
        s2;
    while(c3);
else
    while(c4)s3;

```

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Note: Question No. 1 is Compulsory

Attempt any 3 Questions from the Remaining Questions.

**Q. P. Code: 25301****Marks 80****Q1**

- a Define Software Engineering and explain Software Process Framework
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**Q2**

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**Q3**

- a What is agility? Explain its principles
- b Explain XP

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**Q4**

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- b For "Assignment Management System" formulate problem statement. For the formulated problem statement draw Use Case Diagram and Activity diagram for each use case

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**Q6**

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- b What is black box and white box testing. Draw CFG for the given PDL and find cyclomatic complexity.

10

10

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3 hours

[80 marks]

N. B. :

- (1) Question no 1 is compulsory.
- (2) Attempt any three questions out of remaining five.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data wherever necessary.

- Q1. (a) What is name service? What are its goals? How it is implemented? What is directory Service. [10]  
 b) Discuss in detail about deadlock and locking schemes in concurrency control [10]
- Q2. (a) Explain the issues to be handled while designing DSM? [10]  
 (b) Discuss the difference between light weight processes, thread, and normal process. [10]
- Q3. (a) Compare data centric and client centric consistencies and explain one consistency model of each type. [10]  
 (b) Briefly explain SOA life cycle with proper diagram. Also explain the advantages of SOA. [10]
- Q4. (a) What are the components of CORBA? List the advantages of CORBA. [10]  
 (b) What are the Purpose of WSDL? Explain WSDL document structure using Block diagram. [10]
- Q5. (a) Describe the different approaches for deadlock detection in a distributed computing system. [10]  
 (b) Explain Code Migration & Role of mobile agent. [10]
- Q6. Write short note on (any two) [20]
  - (a) EJB
  - (b) The .NET architecture
  - (c) Distributed protocols

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