

Bharati Vidyapeeth's College Of Engg. For Women, Pune

Department Of Information Technology

Unit Test I (Sem I) 2011-12

Subject: Artificial Intelligence

Class: BE IT

Marks: 30

Duration: 1 Hour

Q.1 Explain Hill climbing method of problem. (6 M)

Q.2 Explain A* algorithm. Give an example. (10 M)

Q.3 Write short notes on. (8M)

1) Applications of AI

2) Constraint satisfaction

Q.4 Cryptarithmic

Solve: SEND

+MORE

—————

MONEY

(6M)

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Unit Test I (Sem I) 2011-12

Subject: Information Assurance Security

Class: BE IT

Marks: 30

Duration: 1 Hour

Q.1.Explain the term 'Cryptography'. Give Examples of basic types of Transposition & Substitution Cipher.

[5M]

Q.2.Using RSA choose $p=3$ and $q=11$ and encode the word "HELLO". Apply the decryption algorithm to the encrypted version to recover the original plain text message. [10M]

Q.3.Explain triple DES algorithm .Explain attacks on DES algo? [10M]

Q.4.If one-time pads are provably secure, why are they so rarely used in practices? [5M]

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Class: B.E.

Duration: 1hr

Subject: Mobile Computing

Marks:30

- Q1. Draw and explain GSM architecture. 8M
- Q2. Draw and explain Bluetooth protocol stack. 8M
- Q3. Write a short note on any two 12M
- a. VOIP
 - b. RFID
 - c. WimaX
- Q4. Explain cell clusters in GSM. 2M

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Unit Test I (Sem I) 2011-12

Subject:OOMD

Class: BEIT

Marks: 30

(Attempt any three from Q.1 to Q.4)

Q.1. What is OMG? What are the objectives of OMG? (8 Marks)

Q.2.Explain structural Things in UML (8 Marks)

Q.3. Explain any eight UML 2.0 Diagram (8 Marks)

Q.4. Explain RUP Phases. (8 Marks)

Q.5.Short Note (Any one) (6 Marks)

I] Relationships in UML

II] CORBA

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Unit test I

Subject: Software Testing and Quality Assurance
Class: BE IT

Max. Marks: 30
Duration: 1 Hr.

Note: Solve any three.

Q1. Define the following terms: Errors, Faults, Failures, Test Bed, Test Oracle. Compare Black Box and White Box testing. **(10)**

Q2. Explain in detail any 5 types of system test. **(10)**

Q3. Develop black box test cases for an ATM which reads the amount to be withdrawn from the users account. The amount has to be a multiple of Rs.100 and be less than Rs.10,000. **(10)**

Q4. Draw a control flow graph for the code given below. Calculate its cyclomatic complexity. How can you use this value as a measure of testability? **(10)**

```
Module nonsense()  
/* a[ ] and b[ ] are global variables */  
begin  
    int I,x  
    i=1  
    read(x)  
    while (i<x) do begin  
        a[i] = b[i] * x  
        if a[i] > 50 then  
            print("array a is over the limit")  
        else  
            print("ok")  
            i = i +1  
        end  
    print ("end of nonsense")  
end
```