

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

Department Of Information Technology

Unit Test II (Sem I) 2011-12

Subject: Artificial Intelligence

Class: BE IT

Marks: 50

Duration: 1.5 Hour

Q.1 Give algorithms for TWEAK and STRIPS. (10 M)

Q.2 What is learning? Explain various types of learning methodologies. (10 M)

Q.3 What are various components of planning system? (6M)

Q.4 Explain hierarchical planning. (4M)

Q.5 What is expert system? Draw and explain architecture of expert system. (8 M)

Q.6 Convert the following to predicate calculus (2M)

- 1) Every fisherman likes the river.
- 2) No red flower is poisonous.
- 3) The students having FE backlog cannot go to TE.
- 4) Rama has FE backlog.

Q.7 State rules to convert given WFF to clause form with an example. (10 M)

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Unit Test II (Sem I) 2011-12

Subject: Information Assurance Security

Class: BE IT

Marks: 50

Duration:1:30

Q.1.Using Fermat's Theorem,Find $3^{201} \pmod{11}$. [5M]

Q.2.Why is the SSL layer positioned between the application layer & transport layer?what is the purpose of the SSL alert protocol?Explain the SSL handshake protocol. [10M]

Q.3.What are the typical contents of Digital Certificate(X.509)?What is the role of a CA and a RA?Name the four key steps in the creation of a digital certificate. [10M]

Q.4.Explain ISO 27001 Security Standard. [5M]

Q.5.What is Electronic Money ? why is anonymous offline Electronic money dangerous? Discuss the double spending problem. [10M]

Q.6.Describe advantages and disadvantages of Symmetric key & asymmetric key Cryptography. [5M]

Q.7.Why is SHA more secure than MD5? [5M]

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Unit Test II (Sem II) 2010-11

Subject: MOC

Class: BE

Marks: 50

Duration: 1.30 Hour

- Q 1. Draw and explain the WAP layered architecture and protocol stack. 8M**
- Q 2. What is direct sequence spread spectrum? How it works in CDMA. 8M**
- Q 3. Explain 802.11 architecture with cell design. 6M**
- Q 4. Explain Ad hoc and Infrastructure mode for wireless LAN. 4M**
- Q 5. Draw and Explain CSMA/CA protocol mechanism. 8M**
- Q 6. Comparison between 3G and Wi-Fi. 8M**
- OR**
- Q 7. Describe SS7 signaling protocol stack. 8M**
- Q 8. Explain MNP with diagram. 8M**

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Unit Test II (Sem I) 2011-12

Subject: OOMD

Class: BEIT

Marks: 50

Q.1. Prepare SRS Plan for Railway Reservation system (10M)

Q.2. Draw Sequence and Communication Diagram for ATM system. (16 M)

Q.3. Draw component Diagram for Student management system. (8 M)

OR

Q.4. Explain the concepts and notation through simple example for following terms used for activity diagram (8 M)

1. Action state
2. Activity state
3. Transition
4. Fork & Join

Q.5. Explain Object Diagram & Package diagram (16 M)

OR

Q.6. Write A short note on (16 M)

1. Swimlanes
2. composite structure diagram
3. Port, Part, Connector, Interface
4. Interaction Diagram

Unit test II

Subject: Software Testing and Quality Assurance

Max. Marks: 50

Class: BE IT

Duration: 1 1/2 Hr.

Note: Solve any FIVE.

Q1. Draw and describe software defect life cycle. (10)

Q2. Define measurement scale and explain the various scales of measurement. (10)

Q3. Explain the use of Fishbone diagram. Draw a fishbone diagram to identify the causes of network failure. (10)

Q4. Based on the following procedure, identify two test conditions for each of the following: (10)

a. Decision coverage

b. Condition coverage

Procedure liability(age, gender, married, premium)

begin

premium:=500;

if((age < 25) and (gender = male) and (not married)) then

premium:= premium + 1500;

else if (married or (gender = female)) then

premium:= premium - 200;

if((age > 45) and (age < 65)) then

premium:= premium - 100;

end

Q5. Explain GQM technique in detail. Draw a GQM tree for the quality goal of achieving better software usability. (10)

Q6. Understand the given data showing the reasons of the return of a software product. (10)

Product Returned	Reason	Product Returned	Reason
A	Customer did not need it	B	Not user friendly
A	Too complex to install	A	Customer did not need it
B	Not user friendly	D	High on memory requirement
C	High on memory requirement	A	Too complex to install
A	Not user friendly	A	Not user friendly
A	Too complex to install	D	Not user friendly
D	High on memory requirement	A	High on memory requirement

Draw a Pareto chart and analyze / comment on reasons for customer dissatisfaction.