

Set-01

2013-14

(Sem V)

Unit Test I

Anjuman-I-Islam's

A.R.Kalsekar college of Engineering, New Panvel

TE-COMPUTER	Sub – MICROPROCESSOR	A.Y. 2013/14
Marks – 30	UNIT TEST-1	Duration – 1 Hrs.
NOTE- Attempt any 3 questions		
Q -1) What is memory segmentation? Enumerate advantages of it with regards to $\mu p - 8086$.		10
Q -2) Compare $\mu p -8085$ with $\mu p -8086$ (min 10 points).		10
Q -3) Explain mixed language programming with assembly & C languages. Use suitable examples.		10
Q -4) Write assembly language program to generate Fibonacci series up to first [^] ten terms.		10
Q -5) Explain minimum mode of operation of $\mu p -8086$.		10

Anjuman-I-Islam's

A.R.Kalsekar college of Engineering, New Panvel

TE-COMPUTER	Sub – MICROPROCESSOR	A.Y. 2013/14
Marks – 30	UNIT TEST-1	Duration – 1 Hrs.
NOTE- Attempt any 3 questions		
Q -1) What is memory segmentation? Enumerate advantages of it with regards to $\mu p - 8086$.		10
Q -2) Compare $\mu p -8085$ with $\mu p -8086$ (min 10 points).		10
Q -3) Explain mixed language programming with assembly & C languages. Use suitable examples.		10
Q -4) Write assembly language program to generate Fibonacci series up to first [^] ten terms.		10
Q -5) Explain minimum mode of operation of $\mu p -8086$.		10



2013-14
(Sem V)

ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology

Subject: Computer Network

Date: Apr 19

Marks: 30

Duration: 1 Hr/s

Class: TE - CO

Unit Test I

Branch: Computer

Instructions: Attempt any 6 questions

- Q1 : Explain the layer details of OSI and TCP/IP Model? (5)
- Q2 : A receiver receives the code 11001100111. Which bit has error? What is the correct hamming code? (5)
- Q3 : Differentiate between Connection Oriented and Connectionless service? (5)
- Q4 : Explain Sliding Window Protocol using Go Back N ARQ techniques? (5)
- Q5: For the message frame 1101011011 and $G(x)=x^4+x+1$. Show the transmitted frame. (5)
- Q6: Explain any five functions of Data Link Layer? (5)
- Q7: Describe Positive Acknowledgement for Retransmission? (5)



2013-14

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology**

(Sem I)

Subject: ADBMS

Date: Sept 13

Class : Third year

Semester: V Sem

Unit Test I

Marks: 30

Duration: 1hr

Branch : computer Eng

Test: I

I Compulsory question (5M)

Q 1. Write SQL expressions considering the following relations with the given fields.

DEPT (Dno, Dname, Location, Numstaff)

EMP (Eno, Ename, Salary, Supno, Dno)

WORKS (Eno, Pno, Role)

PROJ (Pno, Pname, Ptype, Budget)

- i) Get the number of employees having salary more than Rs. 50,000/ and working on more than 1 project.
- ii) List the employees working on more than 2 projects.
- iii) List the projects on which more than 7 employees are working.
- iv) Find the names and budgets of projects which have more than 7 employees working on them.

II Answer Any five (5×5=25)

Q2. Explain EER-to-relational model mapping.

Q3. Consider a university database that keeps track of student and their majors, transcripts and registration and the university courses. Several sections of each course are offered and each section is related to the instructor who is teaching. It also keeps track of the sponsored research project of faculty and graduate students of the academic departments of the particular college. The database also keeps track of research grants and contracts awarded to the university. A grant is related to one principle investigator and to all researchers it supports.

(a) Draw an extended ER diagram (EER-diagram) for the above system.

Q4 Explain different joins such as EQUIJOIN, NATURAL JOIN, LEFT AND RIGHT OUTER JOIN with suitable example.

Q5 Explain the the role of Information system with Information system life cycle.

Q6 Explain subqueries in from clause with an example

Q7 Write short notes (any Two) :-

- a) EXIST and NOT EXIST clause in SQL
- b) with clause
- c) Specialization & Generalization



2018-
18

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology**

Subject: Web Engineering Unit Test I Sept. 13
Marks: 30 Duration: 1 Hr
Class: Third Year Branch: Computer Engineering

Instructions: Attempt Any Three of the Following.
Each Question carries 10 Marks

- Q1. Explain the Categories of Web Applications?
- Q2. Explain the Characteristics of Web Application?
- Q3. Explain Adapting RE Methods to Web Application Development?
- Q4. Explain Properties of Software Architecture? Explain the Generic Components of Web Application Architecture?

----- All the Best -----



**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology**

Subject: Web Engineering
Marks: 30 Duration: 1 Hr
Class: Third Year Branch: Computer Engineering

Instructions: Attempt Any Three of the Following.
Each Question carries 10 Marks

- Q1. Explain the Categories of Web Applications?
- Q2. Explain the Characteristics of Web Application?
- Q3. Explain Adapting RE Methods to Web Application Development?
- Q4. Explain Properties of Software Architecture? Explain the Generic Components of Web Application Architecture?

----- All the Best -----

2013-14
(Sem V)



ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology

Subject: Theory of Computer Science

Date: Sept 13

Marks: 30

Duration: 01 Hr/s

Class: TE CO

Unit Test I

Branch: Computer Engg

- Instructions: 1. Question 1 is compulsory.
2. Answer any two from remaining questions.
3. Draw suitable diagrams wherever necessary.

1.

- a. Design finite state machine which accepts exactly the two strings "baa" and "ab".
(5 Marks)
- b. Convert the following NFA to DFA
(5 Marks)

	0	1
--> p	{ p, q }	{ p }
q	{ r, s }	{ t }
r	{ p, r }	{ t }
*s	-	-
*t	-	-

2.

- a. Convert the following regular expression to NFA with epsilon transitions. (5 Marks)
 $R = (1(00)^*1 + 01^*0)^*$
- b. Design a DFA to accept the language $L = \{w \mid w \text{ starts with zero and has odd length or starts with one and has even length}\}$.
(5 Marks)
3. What is a regular expression? Give formal definition of a regular expression. Design a DFA corresponding to the regular expression $(a + b)^*aba(a + b)^*$
(10 Marks)
- 4.
- a. Obtain DFA to accept strings of a's and b's with even no of a's and even no of b's.
(5 Marks)
- b. Obtain a regular expression such that $L(R) = \{W \mid W \text{ belongs to } \{0, 1\}^* \text{ with at least three consecutive zeros}\}$.
(5 Marks)

Unit Test I

2013-14

(Sem V)

Anjuman-I-Islam's

A.R.Kalsekar college of Engineering, New Panvel

TE-COMPUTER	Sub – MICROPROCESSOR	A.Y. 2013/14
Marks – 30	UNIT TEST-1	Duration – 1 Hrs.

NOTE- Attempt any 3 questions

- Q -1) What is memory segmentation? Enumerate advantages of it with regards to $\mu\text{p} - 8086$. 10
- Q -2) Compare $\mu\text{p} - 8085$ with $\mu\text{p} - 8086$ (min 10 points). 10
- Q -3) Explain mixed language programming with assembly & C languages. Use suitable examples. 10
- Q -4) Write assembly language program to generate Fibonacci series up to first [^]ten terms. 10
- Q -5) Explain minimum mode of operation of $\mu\text{p} - 8086$. 10

Anjuman-I-Islam's

A.R.Kalsekar college of Engineering, New Panvel

TE-COMPUTER	Sub – MICROPROCESSOR	A.Y. 2013/14
Marks – 30	UNIT TEST-1	Duration – 1 Hrs.

NOTE- Attempt any 3 questions

- Q -1) What is memory segmentation? Enumerate advantages of it with regards to $\mu\text{p} - 8086$. 10
- Q -2) Compare $\mu\text{p} - 8085$ with $\mu\text{p} - 8086$ (min 10 points). 10
- Q -3) Explain mixed language programming with assembly & C languages. Use suitable examples. 10
- Q -4) Write assembly language program to generate Fibonacci series up to first [^]ten terms. 10
- Q -5) Explain minimum mode of operation of $\mu\text{p} - 8086$. 10
-



2013-14

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology**

Subject: Environmental Studies

Marks: 20

Date: 07/09/2013

Duration: 1hr(2.30 to 3.30)

Div : ET/CO/ELEC(SEM-V)

Unit Test : 1

- N.B. (1) Q No. **1 is Compulsory**
(2) Attempt **any ONE** question from Q No. 2 & 3

1. Answer any three: [4 * 3]
- (a) Write a short essay on Bhopal gas tragedy.
 - (b) What are the sources of E-pollution & its effects?
 - (c) What do you mean by ecological succession? Elaborate with an example.
 - (d) 'The automobile is one of the worst inventions by humankind.' Comment.
2. Explain how every source of energy has its limits. [8]
3. (a) What is the impact of deforestation on the environment? Give a case study wherein the local people have successfully agitated against deforestation. [5]
- (b) What is meant by eutrophication of lakes? [3]