

Set-02



Symbol of Secularism
& National Integration

(2013-14)

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

Subject: CN

Date: 21/10/2013

Class : TE

(V)

Class Test-II

Marks: 30

Duration: 1 hour

Branch : Computer

Note : 1. Attempt any 3 questions out of 5.
2. All questions carry equal marks.

Q1: Explain Dijkstra's Algorithm as shortest path routing with example?

Q2 : Explain the working of Leaky Bucket Algorithm?

Q3: Explain three way handshake technique in TCP?

Q4: What is IPV4 protocol? Explain the IPV4 Header format with diagram?

Q5: What is the function of TCP protocol? Discuss its header format?



ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

School of Engineering & Technology

(2013-14)

Subject: MP

Duration: 1hr

09-13

Class : Third year

(V)

Branch : Computer Engg

Test: II

Marks: 30

Note: Attempt any 3 questions

- Q1) Explain modes of operation of PIT- 8254. (10)
- Q2) What is bus contention in multiprocessor system? Explain Bus Arbitration in detail. (10)
- Q3) Explain in detail for 8086: (10)
- (i) hardware interrupts , (ii) dedicated interrupts , (iii) interrupt vector table.
- Q4) Draw & explain block diagram of PPI-8255. What is BSR mode? (10)
- Q5) Write short notes on- (i) RS-232C , (ii) IEEE -488 GPIB (10)

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ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

School of Engineering & Technology

Subject: ADBMS

Date: 09.13

Class : Third year

Semester: (V)

Marks: 30

Duration: 1hr

Branch : computer Engg

Test: II

I. Compulsory question (5M)

Test - II

(2013-14)

Q1. Explain Data fragmentation, replication, allocation technique for distributed database design.

II Answer Any five (5Q * 5M = 25M)

Q2. Explain 3-Tier client server architecture.

Q3. Explain in detail about heuristic approach to query optimization.

Q4. Explain Concurrency control in distributed database.

Q5. Draw and explain the query processing engine in typical DBMS system

Q6. Explain Nested-loop join and Block Nested-loop join algorithm in query processing.

Q7. Write short notes (any Two) :-

a) Vertical and Horizontal fragmentation in distributed databases

b) Concurrency control and recovery techniques in distributed databases

c) Replication in distributed DBMS

***** Best of Luck *****



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

Subject: Theory of Computer Science

Date: Oct 13

Marks: 30

Class: TE CO

Computer Engg

Duration: 01 Hr/s

Branch:

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

(2013-14)

1.

- a. Define Turing Machine and give its variants. (5 Marks)
- b. Write short note on Multi-tape Turing machine (5 Marks)

2. Define PDA and construct PDA for the grammar. (10 Marks)

$$E \rightarrow E + E \mid E - E \mid (E) \mid id$$

3. Construct a PDA accepting the language of palindromes on $\{ 0,1 \}$. (10 Marks)
4. Construct a PDA accepting the following language $L = \{ a^n b^n a^n \mid m, n \geq 1 \}$ (10 Marks)
5. Design TM for recognizing the following languages: (10 Marks)

a. $L = \{ a^n b^n c^n \mid n \geq 1 \}$

b. $L = \{ x \mid n_{(a)}(x) = n_{(b)}(x) \}$



(2013-14)

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

Subject: WE
Date:
Class : Third year
Semester: (v)

Marks: 30
Duration: 1hr
Branch : computer Eng
Test: II

04.13

Class Test - II

Answer Any Three

- Q 1) Explain Sever Side Technologies in Web Engineering and give example of one - 10 M
- Q 2) Explain Client Side Technologies in Web Engineering and give example of one - 10 M
- Q 3) What are the aspects of designing a web application using servlet technology with illustration in terms of node and meshes. - 10 M
- Q 4) What are the different test approaches and give details of each approach. - 10 M
- Q 5) Explain different types of testing done on web applications. - 10 M
- Q 6) What is the meaning of middleware technology and how it is used in modern web applications. - 10 M



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

Subject: WE
Date:
Class : Third year
Semester:lv

Marks: 30
Duration: 1hr
Branch : computer Eng
Test: II

Answer Any Three

- Q 1) Explain Sever Side Technologies in Web Engineering and give example of one - 10 M
- Q 2) Explain Client Side Technologies in Web Engineering and give example of one - 10 M
- Q 3) What are the aspects of designing a web application using servlet technology with illustration in terms of node and meshes. - 10 M
- Q 4) What are the different test approaches and give details of each approach. - 10 M
- Q 5) Explain different types of testing done on web applications. - 10 M
- Q 6) What is the meaning of middleware technology and how it is used in modern web applications. - 10 M

23/10/13 Afternoon

2:30 to 3:30



ANJUMAN-I-ISLAM'S

(2013-14)

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

School of Engineering & Technology

Subject: Environmental Studies

Marks: 20

Date: 23/10/2013

Duration: 1hr(2.30 to 3.30)

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

Unit Test : 2

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 note on Solid Waste Management

(b) What are the problems faced by children who are either AIDS victims or live in AIDS-affected families?

(c) What are the problems that a resident of an urban slum faces?

(d) Explain the requirement of an Environmental Impact Assessment for certain types of projects.

2. Write an essay on the impact of dams on people. What are the usual expected benefits? What are the negative impacts on people? What does the World Commission say on the topic? What do the cases of Narmada and the Three Gorges dams illustrate? [8]

3. Describe the major international efforts to save biodiversity. What has been the role of Indian governments in these efforts? [8]