

School of Engineering & Technology

KALSEKAR TECHNICAL CAMPUS

School of Pharmacy

Knowledge	Resource	& Relay	Centre	(KRRC)
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AIKTC/KRRC/SoET/ACK	N/QUES/2018	3-19/	Date:	
School: SoET-CBSGS	Branch: _	COMP. ENGG.	SEM:	VI
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To, Exam Controller, AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following Semester/Unit Test-I/Unit Test-II (Reg./ATKT) question papers from your exam cell:

Sr.	Subject Name	Subject Code	For	mat	No. of
No.			SC	HC	Copies
ì	SYSTEM PROGRAMMING & COMPILER CONSTRUCTION	CPC601		V	02
2	SOFTWARE ENGG.	CPC62		V	20
3	DISTRIBUTED DATABASE	CPC603			
4	MOBILE COMMUNICATION & COMPUTING	CPC604		L	02
5	ELECTIVE I:				
6					

Note: SC - Softcopy, HC - Hardcopy

(Shaheen Ansari) Librarian, AIKTC

Paper / Subject Code: 36801 / SYSTEM PROGRAMMING AND MPILER CONSTRUCTION

	(3 Hours) Total M	larks:10
N.B.:	 (1) Question No. 1 is compulsory. (2) Attempt any three questions out of remaining five questions. 	*
-OL	 (a) Define loader. Explain functions of loader. (b) What are different features of macro? (c) Compare compilers and interpreters. (d) Explain synthesized and inherited attributes. 	(65) (65) (65)
Q2.	(a) With reference to assembler, explain the following tableth suitable example (i) POT (ii) MOT (iii) ST (iv) LT TT (b) Design a predictive parser for the given grammar. Mentiall the steps E-> TQ T-> FR Q-> +TQ -TQ E R-> *FR /FR E F-> (E) id	(D) (D)
Q3.	(a) Explain pass 1 of macro processor with flowchart.(b) What is code optimization? What are various strategies mode optimization?	(D) (D)
Q4.	(a) Explain the design of the absolute loader and mention alledata structures in detail.(b) What are different types of intermediate code? Explain intermediate code address code.	(0)
Q5.	(a) Write a note on Input buffering and also explain role of final analyser. (b) Explain various storage allocation strategies.	(D) (D)
Q6.	Write a note on: (a) DAG (b) Lex and YACC (c) Syntax directed translation (d) Text editors	(E) (E) (E)



T.E. sem- VI - casys - comps

16/5/19

Paper / Subject Code: 36802 / SOFTWARE ENGINEERING

Q.P code: 36618

(3 Hours)

Total Marks:80

N.B : (1) Question No. I is compulsory

(2) Attempt any three questions out of remaining five.

1	Answer all questions				
	(n)	What are the objectives of Requirement Analysis? What is the significance of configuration items in SCM? List some examples of			
	(p)	general SCIs			
	(¢)	Describe the different ways in which a Spiral model is better than Waterfall model			
	(d)	The state of the s			
2	(a)	Explain how an Analysis model is translated to Design models. Explain in detail the design quality guidelines and attributes	10		
	(b)	What are the benefits of Component-Based Development model? With a near diagram and explain the different phases of Component Based Development	10		
3.	(a)	Compare the main features and practices at each of the key phases of the agile approach and more traditional approaches of the software development life cycle	10		
	(h)	Explain Basis Path testing with the following details: Flow graph notations, Cyclomatic complexity and test case derivation.	10		
4.	(a)	Draw the DFD up to Level 2 for a Restaurant Management System which has online food ordering, food delivering, GST calculation, invoice creation, and payments subsystems.	10		
	(b)	Explain the white box and black box testing methods suiting the above system. (Restaurant management)	1.0		
5.	(a)	Explain the different Software Quality and Reliability metrics	10		
143	(b)	Describe how version control and change control are carried out during SCM?	10		
6.		Write short notes on (any two)	20		
	(a)	Risk Management			
	(b)	Software Maintenance			
	(c)	Test Driven Development			
	(d)	User Interface Design considerations			

(5)

TE SEM TO COMPS - CAS 45 Paper / Subject Code: 36804 / MOBILE COMMUNICATION AND COMPUTING

16 2x/5/19

3 hrs.

80 marks

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8.7	•	

- 1. Question 1 is compulsory
- 2. Attempt any 3 questions out of the remaining questions.
- 3. Assume suitable data whenever required

Q1)		Any 4	
	a)	Explain the Network and Switching Sub-System of GSM architecture.	5
	b)	Write short notes on GEO, MEO & LEO	5
	c)	Enlist the characteristics of SIM.	5
	d)	Describe Inter MSC handover technique.	5
Q 2)	a)	Explain the 4G LTE architecture with a neat diagram.	10
	b)	Compare and contrast HIPERLANI and HIPERLAN 2.	10
Q 3)	a)	What is the disconnection problem? Explain reaction of M-TCP along with its advantages and disadvantages	10
	b)	GSM maintains end-to-end security by retaining the confidentiality of calls and anonymity of the GSM subscriber, Justify this statement.	10
Q4)	a)	Explain the role of digital signature in mobile security.	10
-	b)	Write a note on Android Framework.	10
Q5)	a)	Draw and explain the architecture of TETRA and specify the standards and services offered by TETRA	10
	b)	Explain the GPRS architecture in detail. Compare it with GSM architecture.	10
Q6)		Write short notes on the following:	20
3.7	a)	GSM Burst Structure	
	b)	Agent Advertisement and Discovery	
	c)	Exposed terminal problem with solution	
	d)	Co-channel Interference.	