



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE  
NEHRU SCHOOL OF MANAGEMENT  
NILA GARDENS, PAMPADY



## Blooms Taxonomy

<b>Sl.No</b>	<b>Description</b>	<b>Page No.</b>
1.	Bloom taxonomy	1





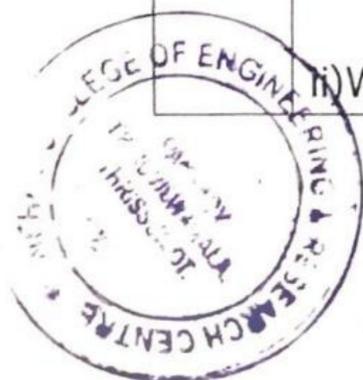
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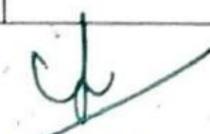
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SERIES TEST - I (2019-20)



Semester: S4	Programme: B.Tech	Max.Mark:40	Date:
Course Code & Name: CS206 OBJECT ORIENTED DESIGN AND PROGRAMMING		Duration: 90min	SET : 1
Knowledge Level (KL)	K1 : Remembering	K3:Applying	K5:Evaluvate
Course Outcome (COL)	K2: Understanding	K4: Analysing	K6:Creating
<b>Part – A</b>		<b>Answer Any Four Questions.</b>	<b>4*5 = 20</b>
S.No	Questions	KL/COL	
1	Give the components of use case diagram and its purpose. Draw the Use Case diagram of online railway ticket reservation system.	K2/C01	
2	Write briefly about any five features of Java.	K3/C01	
3	Write a java program to check whether a given number is prime or not.	K6/C02	
4	Illustrate constructor with an example program.	K3/C02	
5	Demonstrate how polymorphism can be implemented using method overriding with suitable example	K2/C03	
6	Define an exception with an example ? Why it needs to be handled?	K1/C03	
<b>Part – B</b>		<b>Answer ALL Questions.</b>	<b>3 x 10 = 30 Marks</b>
7	i) Show the use of different types of operators in java with the help of suitable examples.  [OR] ii) Write a note on class diagram . Draw the class diagram	K2/C01	



  
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	of an Order System.	K3/C01
8	i) Differentiate Default and Parameterized Constructors with an example.  [OR] ii) Illustrate constructor and method overloading with example.	K4/C02  K3/C02
9	i) Illustrate any two types of inheritance with an example.  [OR] ii) Explain try-catch, Nested -try -catch, finally statements with proper examples.	K3/C03  K5/C03

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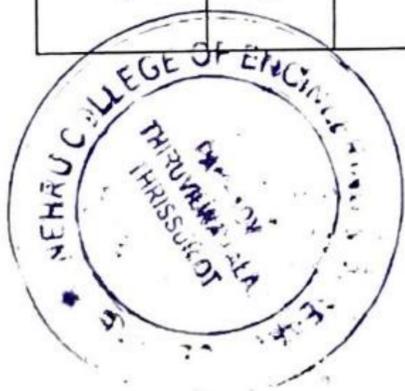
**Question paper quality assessment using Blooms taxonomy**

**RUBRICS**

Blooms taxonomy Definitions	Scale
Remembering	1
Understanding	2
Applying	3
Analyzing	4
Evaluating	5
Creating	6

**Questions to Blooms taxonomy mapping**

Question Number	Marks	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
1	5		✓				
2	5			✓			
3	5						✓
4	5			✓			



  
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Question Number	Marks	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
5.	5		✓				
6.	5	✓					
7.	i)10 ii)10		✓	✓			
8.	i) 10 ii)10			✓		✓	
9.	i)10 ii)10			✓		✓	

**VALUATION OF QUALITY OF QUESTION PAPER USING BLOOMS TAXONOMY**

Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1	5	3.05



  
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Understanding	2	15	
Applying	3	30	
Analyzing	4	10	
Evaluating	5	10	
Creating	6	10	

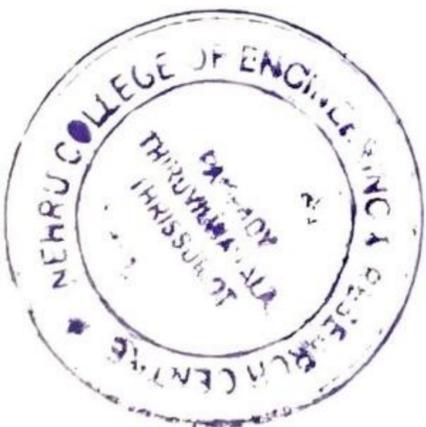
**CO MAPPING WITH QUESTIONS**

COs	T1	T2	T3	A1	A2
C409.1	Q1,Q2,Q5(i),(ii)				
C409.2	Q3,Q4,Q7(i),(ii)				
C409.3	Q5,Q6,Q8(i),(ii)				
C409.4					
C409.5					
C409.6					

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SERIES TEST - 1 (2019-20)



**CS403 PROGRAMMING PARADIGMS**

Semester:7	Program: B.TECH	Max.Mark:40	Date:
Course Code & Name: CS403 & PROGRAMMING PARADIGMS		Duration: 90 Minutes	SET : 1
Knowledge Level (KL)	K1 : Remembering	K3:Applying	K5: Evaluating
Course Outcome (COL)	K2: Understanding	K4: Analyzing	K6: Creating

**Part – A, Answer ALL Questions. 4 x 4 = 16 Marks**

S.No	Questions	KL/COL
1	Define binding time? Explain the distinction between the lifetime of a name to object binding and its visibility.	K1/CO1
2	Show that a user can access a non-local object in case of subroutines.	K2/CO1
3	Write about pointers and arrays in programming language C.	K6/CO2
4	Write down the different set operations in different programming languages.	K6/CO2

**Part – B, Answer All Questions. 2 x 12 =24 Marks**

5 a.	i. Explain in detail about assignments in expression evaluation. (9 Marks)	K5/CO1 K6/CO1
	ii. Write about buddy systems. (3 Marks)	
OR		
b.	i. Explain in detail about different types of binding times. (9 Marks)	K5/CO1 K6/CO1
	ii. Write about Dangling reference. (3 Marks)	
6 a.	i. Explain in detail about the memory layout of arrays. (9 Marks)	K5/CO2 K6/CO2
	ii. Write about dope vectors. (3 Marks)	
OR		
b.	i. Explain in detail about variant records. (9 Marks)	K5/CO2 K6/CO2
	ii. Write about array slices. (3 Marks)	



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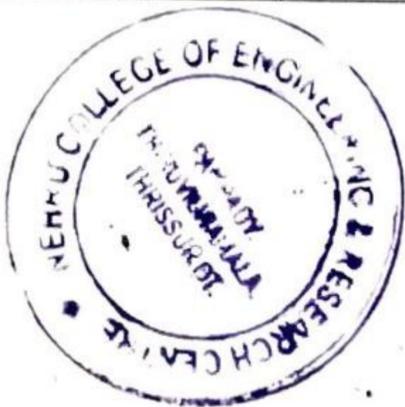
Question paper quality assessment using Blooms taxonomy

RUBRICS

Blooms taxonomy Definitions	Scale
Remembering	1
Understanding	2
Applying	3
Analyzing	4
Evaluating	5
Creating	6

**Questions to Blooms taxonomy mapping**

Question Number	Marks	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
1	4	✓					
2	4		✓				
3	4						✓
4	4						✓



  
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5 a	i	9					✓	
	ii	3						✓
5 b	i	9					✓	
	ii	3						✓
6 a	i	9					✓	
	ii	3						✓
6 b	i	9					✓	
	ii	3						✓

**EVALUATION OF QUALITY OF QUESTION PAPER USING BLOOMS TAXONOMY**

Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1	4	4.87
Understanding	2	4	
Applying	3		
Analyzing	4		



  
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SERIES TEST - 1 (2019-20)



CS405 COMPUTER SYSTEM ARCHITECTURE

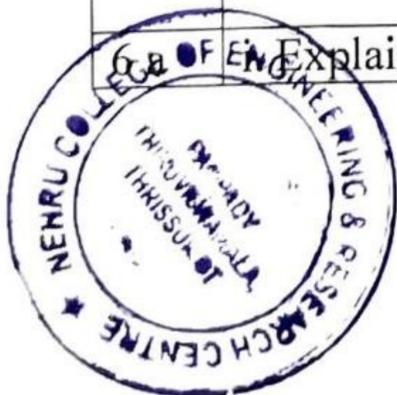
Semester:7	Program: B.TECH	Max.Mark:40	Date:
Course Code & Name: CS405 & COMPUTER SYSTEM ARCHITECTURE		Duration: 90 Minutes	SET : 1
Knowledge Level (KL)	K1 : Remembering	K3:Applying	K5: Evaluating
Course Outcome (COL)	K2: Understanding	K4: Analyzing	K6: Creating

Part – A, Answer ALL Questions. 4 x 4 = 16 Marks

S.No	Questions	KL/COL
1	Explain implicit and explicit parallelism in parallel programming .	K5/CO1
2	Explain the operational model of SIMD with diagram.	K5/CO1
3	Compare the characteristics of CISC and RISC Architectures.	K2/CO2
4	Write about the parameters of memory technologies at each level.	K6/CO2

Part – B, Answer All Questions. 2 x 12 =24 Marks

5 a	i. A 40 MHz processor was used to execute a benchmark program with the following instruction mix and clock cycle counts:	<table border="1"> <thead> <tr> <th>Instruction Type</th> <th>Instruction count</th> <th>Clock cycle count</th> </tr> </thead> <tbody> <tr> <td>Integer Arithmetic</td> <td>35000</td> <td>1</td> </tr> <tr> <td>Data Transfer</td> <td>20000</td> <td>2</td> </tr> <tr> <td>Floating point</td> <td>15000</td> <td>2</td> </tr> <tr> <td>Control Transfer</td> <td>6000</td> <td>2</td> </tr> </tbody> </table>	Instruction Type	Instruction count	Clock cycle count	Integer Arithmetic	35000	1	Data Transfer	20000	2	Floating point	15000	2	Control Transfer	6000	2	K5/CO1
	Instruction Type		Instruction count	Clock cycle count														
Integer Arithmetic	35000	1																
Data Transfer	20000	2																
Floating point	15000	2																
Control Transfer	6000	2																
Determine the effective CPI, MIPS rate and execution time for this program. (9 Marks)																		
	ii. Write about the performance factors. (3 Marks)		K6/CO1															
OR																		
b.	i. Describe in detail about Flynn’s classification of computer architecture. (9 Marks)		K2/CO1															
	ii. Write about the system attributes that influences performance factors. (3 Marks)		K6/CO1															
	Explain in detail about vector processors. (9 Marks)		K5/CO2															



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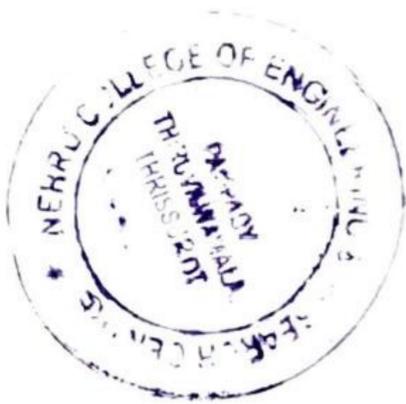
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	ii. Write about spacial locality. (3 Marks)	K6/CO2
	OR	
b.	i. Explain VLIW architecture. Also explain pipelining in VLIW processors. (9 Marks)	K5/CO2
	ii. Explain the role of compilers in exploiting parallelism. (3 Marks)	K5/CO2

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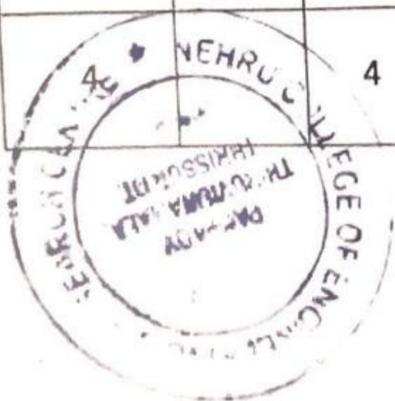
Question paper quality assessment using Blooms taxonomy

RUBRICS

Blooms taxonomy Definitions	Scale
Remembering	1
Understanding	2
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Analyzing	4
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**Questions to Blooms taxonomy mapping**

Question Number	Marks	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
1	4					✓	
2	4					✓	
3	4		✓				
	4						✓

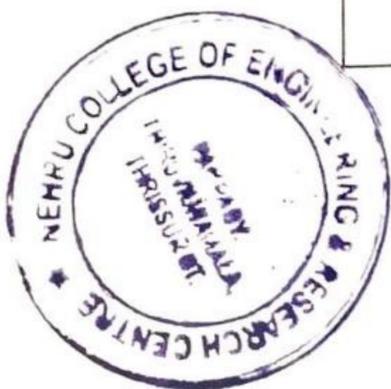


  
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5 a	i	9					✓	
	ii	3						✓
5 b	i	9		✓				
	ii	3						✓
6 a	i	9					✓	
	ii	3						✓
6 b	i	9					✓	
	ii	3					✓	

**EVALUATION OF QUALITY OF QUESTION PAPER USING BLOOMS TAXONOMY**

Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1		4.59
Understanding	2	13	
Applying	3		
Analyzing	4		



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Evaluating	5	38	
Creating	6	13	

**CO MAPPING WITH QUESTIONS**

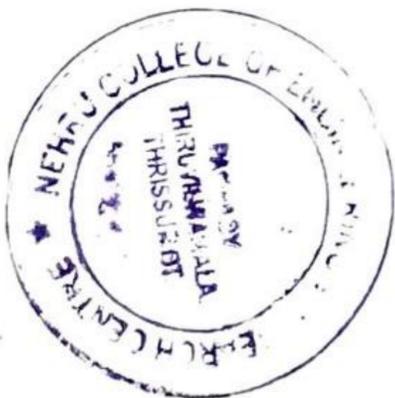
COs	T1	T2	T3	A1	A2
C405.1	Q(1), Q(2), Q(5a), Q(5b),				
C405.2	Q(3), Q(4), Q(6a), Q(6b)				
C405.3					
C405.4					
C405.5					
C405.6					

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