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SRIT R20**SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY**

(AUTONOMOUS)

II B. Tech II Sem – Continuous Internal Examinations II – Jun 2023 (AY:2022-2023)

DISCRETE MATHEMATICS**[R204GA05401]**

(Common to CSE, CSD & CSM)

Time: 2 hours**SET – 1****Max. Marks: 30****Answer the following questions**

Q. No	Questions	Unit	Marks	CO	Cognitive Level
1	a) Find the GCD of 826, 1890.	III	2	CO1	Remember
	b) Define permutation with an example.	IV	2	CO1	Remember
	c) Define graph coloring with an example.	V	2	CO1	Remember
UNIT-III					
2	Explain the testing for prime numbers with an example.		8	CO4	Apply
OR					
3	a) Explain division theorem with an example		6	CO4	Apply
	b) Find the LCM of 826, 1890.		2	CO4	Remember
UNIT-IV					
4	a) In how many different ways can the letters of the word 'COMPUTER' be arranged so that the vowels always come together?		4	CO5	Apply
	b) Find the number of positive integers less than are equal to 2076 and divisible by 3 or 4.		4	CO5	Apply
OR					
5	Explain the circular permutations with an example.		8	CO5	Apply
UNIT-V					
6	State and Prove Eulers formula.		8	CO6	Understand
OR					
7	Explain Prim's Algorithm along with a suitable example.		8	CO6	Apply

Prepared by

Name of the Faculty:

Mr. G. Chinna Pullaiah, Mr. M. Narasimhulu, Mr. P. Ram Bayapa Reddy

Signature of the Faculty:

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DISCRETE MATHEMATICS**[R204GA05401]**

(Common to CSE, CSD & CSM)

Time: 2 hours**SET – 2****Max. Marks: 30****Answer the following questions**

Q. No	Questions	Unit	Marks	CO	Cognitive Level
1	a) Mention the properties of integers.	III	2	CO1	Remember
	b) Define Sum and Product rule.	IV	2	CO1	Remember
	c) How a given graph is said to be planar?	V	2	CO1	Remember
UNIT-III					
2	Write the Euclidian algorithm with an example.		8	CO4	Apply
OR					
3	Explain the Fermat's theorem and Euler's theorem with an example.		8	CO4	Apply
UNIT-IV					
4	Explain pigeonhole principle and its applications.		8	CO5	Understand
OR					
5	Explain the principles of inclusion – exclusion.		8	CO5	Understand
UNIT-V					
6	Explain the matrix representation of graphs with example.		8	CO6	Apply
OR					
7	Explain krushkal's algorithm with an example.		8	CO6	Apply

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