Sri Siddhartha Institute of Technology, Tumkur

(A constituent college of Sri Siddhartha Academy of Higher Education, Tumkur)

ES-CE103: Elements of Civil Engineering

Date:09.02.2021   **TEST1**   Time:2:15PM – 3:15 PM

Sec :- A, B, C, D, E

Q.No		Marks	CO	BL
1	Explain			
	1. Geotechnical Engineering	08	1	1,2
	2. Structural Engineering			
2	Explain the classification of roads.	08	1	1,2
3	Explain			
	1. Lintel	06	1	1,2
	2. Chejja			
	3. Canopy			
4	Explain the role of civil engineer in infrastructure development.	08	1	1,2

Sri Siddhartha Institute of Technology, Tumkur

(A constituent college of Sri Siddhartha Academy of Higher Education, Tumkur)

ES CV-103: Elements of Civil Engineering

TEST2

Date: 05/03/2021   Marks: 30   Time: 60 Mins

Q. No		Marks	CO	BL
1	Explain with a sketch the types of pitched roofs.	10	1	1
2	Describe briefly the types of stairs and their ideal requirements.	10	1	2
3	How do you classify bricks based on strength? Specify the composition of a good brick.	6	2	3
4	Write a brief note on good building stones.	4	2	3

Date: 30/03/2021   **TEST 3**   Time:1.00Hr

A,B, c, D & E Sections

Answer all the questions

		M	C	B
1	Explain the concept of composition of forces.	5	3	1
2	Define a couple. Explain the characteristics of a couple	5	3	1
3	Explain with sketch	5	3	1

        3. Coplanar concurrent force system
        4. Non Coplanar Non concurrent force system

4	Calculate the magnitude and direction of a resultant force for the coplanar concurrent force system shown in fig below	5	3	3,4
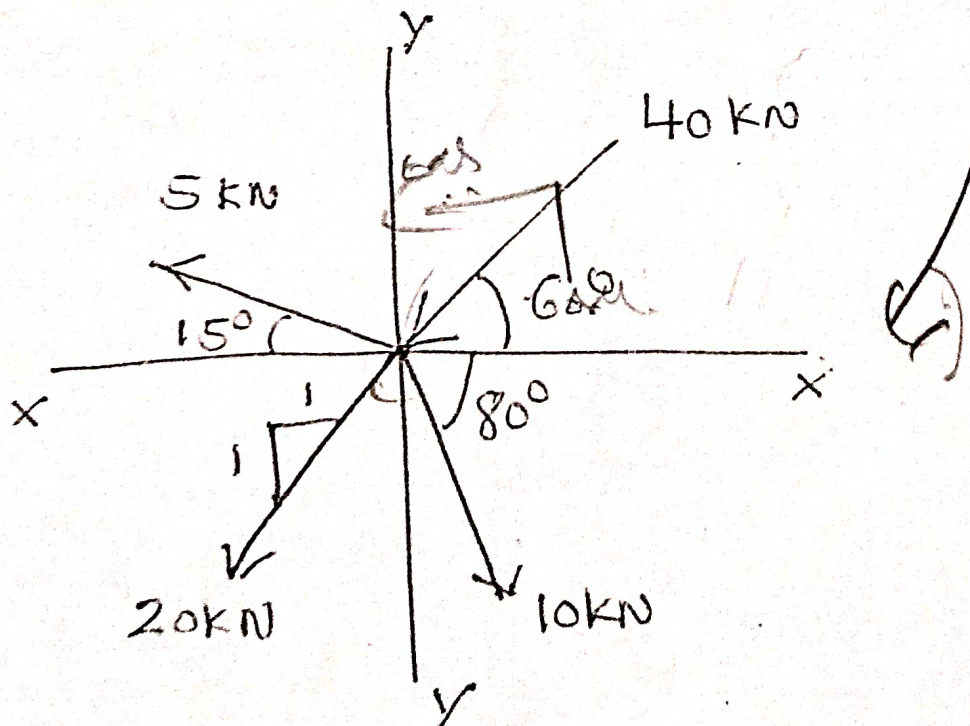
20T5086

Sri Siddhartha Institute of Technology, Tumakuru
(A constituent college of Sri Siddhartha Academy of Higher Education, Tumakuru)

ES-CE203: Elements of Civil Engineering

TEST – 3
(Common to F, G, H, I & J sections)

Marks: 20 Timings: 60 mins

Q. No		Marks	CO	BL
1	Define a couple. Explain the characteristics of a couple.	06	3	1,2
2	Explain the concept of resolution of forces.	06	3	1,2
3	Calculate the magnitude and direction of resultant force for the fig shown below	08	3	4