Student Exam No._____

GANPAT UNIVERSITY

B. Tech. Semester: III Civil Engineering

Regular Examination November – December- 2014

Subject: 2CI303 Construction Materials and Engineering Geology

Time: 3 Hours **Total Marks: 70**

Instruction: **(1) Answer to the two sections must be written in separate answer books.**
(2) Figures to the right indicate full marks.
(3) Assume suitable data if required.

Section – I

Que. – 1	A	What is weathering? Explain types of weathering.	06
	B	Define following term related to minerals properties-Idiochromatic, Allochromatic, Streak, Ore-forming minerals, Cleavage, Lustre.	06

OR

Que. – 1	A	What are the important Geological considerations for construction of Dam?	06
	B	What is Fold? Explain also causes of Folding with neat sketches.	06
Que. – 2	A	What is Dip? Explain types of Dip.	06
	B	Write a detail notes on Atmosphere.	05

OR

Que. – 2	A	Explain the types of Seismic waves with sketches.	06
	B	What are classifications of Igneous rock?	05
Que. – 3		**Write a short Notes on-**	
	A	Overturned Fold	04
	B	Isoclinal Fold	04
	C	Asymmetrical Fold	04

Section – II

Que. – 4	A	Write down the classification of trees. Enlist the qualities of good timber.	06
	B	Discuss the geological classification of rocks.	06

OR

Que. – 4	A	What are the different factors affecting workability of concrete? How the workability of concrete is measured?	06

15

	B	Explain the classification of lime in detail.	06
Que. – 5	A	Discuss the operation of preparation of clay for manufacture of brick.	04
	B	Write short notes on (i) Fineness Test (ii)Soundness Test	04
	C	Define tiles. What are the characteristics of good tiles?	03

OR

Que. – 5	A	What is meant by proportioning of concrete? Write different concrete mixes and their uses.	04
	B	Write properties of Pig iron, Cast iron, Wrought iron and Steel.	04
	C	Explain the functions of various cement ingredients?	03

Que. – 6 Answer the following

	A	Discuss the process of burning bricks in clamps with neat sketch.	04
	B	Explain cross section of timber with neat sketch.	04
	C	Enlist various non–ferrous metals. Give properties and uses of aluminium.	04

END OF PAPER

16