Student Exam No.

GANPAT UNIVERSITY

B. Tech. Semester: 4th Civil Engineering

Regular Examination April - June 2015

Building Construction (2CI403)

Time: 3 Hours Total N				
Instr	uctio	1. Figures to the right indicate marks.2. Answer to the two sections must be written in separate answer book.		
		SECTION - I		
Q1	A	Write a note on various components of a building along with their sketch.	4	
	В	Explain in brief various methods of boring for sub-soil exploration.	6	
	C	Differentiate between Shallow foundation and Deep foundation	2	
		OR		
Q1	A	List out the various types of loads coming on structure. Differentiate between live load and dead load.	4	
	В	What do you understand by Geo-physical methods? Explain in brief seismic refraction method with neat sketch.	6	
	С	Explain the direct method of ground investigation.	2	
Q2	A	What are the requirements of good foundation? Explain different types of foundations.	5	
	В	Write a short note on different types of bonds in masonry construction.	4	
	C	Give the difference between PCC and RCC? Give their uses.	3	
		OR		
Q2	A	What are the causes of failure of foundation? Explain lateral movement of sub-soil with its remedial measure.	5	
	В	Describe with neat sketches Ashlar Masonry and its types.	40 4	
	C	Define Precast and cast in situ concrete.	3	
		C Deline scalled ang.		
Q3	A	Describe with neat figures (elevation only) the following:		
		i. Louvered Door ii. Glazed or Sash Doors		
		ii. Glazed or Sash Doors iii. Battened, Braced, Framed & Ledged Door		
		iv. Gable Windows		
		v. Bay Windows		

	В	Write a short note on: (Any three)	6
		1. Lifting devices for stones.	
		2. Sub-soil moisture movement.	
		3. Reinforced brick masonry.4. Cavity wall.	
		reMinor	
		SECTION - II	
Q4	A	Write short note on R.C.C stair with sketch.	5
	В	Draw a plan and section of Quarter turn stairs with landing and winder.	2
	C	Explain with the help of neat sketches, jack arch flooring	5
		OR	
Q4	A	Explain the method of laying the rubber and glass flooring.	3
	В	State briefly the requirement of good stair case.	4
	C	Plan a stair case for a residential building in which the vertical distance each floor is 3.6mt. The size of stair hall is limited to 2.5m x 5 m.	5
Q5	A	Write short notes on Couple close roof.	3
	В	Write short note on Composite roof truss.	3
	C	Explain the method of three coats, two coats and one coat for cement sand plaster.	6
		OR Anotheliauci lo	
Q5	A	Describe the constituents of paint.	5
	В	State briefly the essential requirement of a good roof.	2
	C	Write short notes on Collar beam roof and Truncated roof truss.	5
Q6	A	What do you understand by underpinning? Describe in brief pit method.	5
	В	Explain in brief the factors that affect the selection of floors material.	5
	~	Define coeffelding	1

END OF PAPER