Ex/PG/ARCH/T/128B/2018

MASTER OF ARCHITECTURE EXAMINATION, 2018 (M. Arch. 2nd Semester)

SUBJECT: BUILDING TECHNOLOGY

Time: Three hours Instructions: Answer for 100 marks Use sketches wherever necessary.	DING TECHNOLOGY	Full Marks: 100
01. In light of rising demands of constructions, citing a few examples, by these civilizations in advancement	describe the achievements made	logy. 25
02. Discuss how does a set of Building F differences between 'Friction Piles" a what conditions a building construction Draw and describe a pile foundation	and "End bearing Piles". Describe	under n
03. Describe a few structural typologies and Describe in brief the structural system for sky scraper buildings.	adopted in construction of tall build ns propounded by Fazlur Rahman	dings. Khan 25
04. Describe 'Vibrofloation' (or Vibrocos of non-cohesive soil for ensuring high sketches, also please explain the method the utilities and roles of various construction.	her bearing pressure. Using suitable hod adopted for 'Vibrofloation'. De	e escribe
05. With the help of suitable sketches, de tunnel is made below a road or railwa of vehicles or trains using "Box Jacki	ry track without disturbing moveme	ete ent 25
06. Describe how an intermediate load be temporary supports along with needle or concrete beams. Use sketches when	beams and permanent insertion of	ing Steel
Describe how issues of foundation set "Underpinning". Use sketches wherev	ttlements could be resolved using ver necessary.	25
07. Describe any use of 'Pre-stressing' an words the methodology adopted in Se using pre cast post-tensioned types of	gmental Bridge construction techn	mple ique 25
08. Write short notes on (any five)		(5 X 5)=25
(i) Steining (wall); (ii) Caisson; (iii) Shee (vi) Long spanning; (vii) Roman aqueduct Structures; (x) RMC	et Piling; (iv) Stranded wire rope; (ts; (viii) Cable stayed bridges; (ix)	v) Slip form; Pneumatic