Reg. No.		17			
				-	

MANIPAL UNIVERSITY

SIXTH SEMESTER B. ARCH. DEGREE EXAMINATION – JULY 2017

SUBJECT: SPECIFICATION AND ESTIMATION (ARC-312) (2010 SCHEME)

Friday, July 14, 2017

Time: 14:00-17:00 Hrs.

Max. Marks: 50

- Z PART-I is Compulsory.
- Answer any THREE questions from PART II.

PART - I

- 1. Work out the quantities of the following items of the building shown in Fig Q.1
- 1A. Earthwork excavation
- 1B. Cement concrete bed
- 1C. Random rubble masonry
- 1D. Coursed rubble masonry
- 1E. Laterite masonry

 $(3 \text{ marks} \times 5 = 15 \text{ marks})$

2. Work out the rate of first class brick work in foundation and plinth with $20 \times 10 \times 10$ cm brick with cement mortar 1:6. Take 10 cu.m for calculation.

(5 marks)

PART-II

- 3A. Write detailed specification of damp proof course 1:3:6.
- 3B. Explain preliminary estimate and plinth area estimate.
- 3C. Write detail specifications of cement as a material.

(4+3+3 = 10 marks)

- 4A. Write detailed specification of external plastering.
- 4B. Write detailed specification of brick work first class.
- 4C. Write short notes on tender.

(4+3+3 = 10 marks)

- 5A. Write general specification of first class building.
- 5B. What are specifications? Explain the different types of specifications.
- 5C. Write detail specifications of timber as a material.

(4+3+3 = 10 marks)

- 6A. Write detailed specification of woodwork in doors and windows.
- 6B. Write detailed specification of random rubble masonary.
- 6C. Write short notes on white washing and colour washing.

(4+3+3 = 10 marks)

