Reg. No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH/EIGHTH SEMESTER B. ARCH. DEGREE EXAMINATION – JAN/FEB 2019

SUBJECT: ARC-14-411.1 - VASTUVIDYA (2014 SCHEME)
ARC-408.4 - TRADITIONAL ARCHITECTURE (2010 SCHEME)

Monday, February 04, 2019

Time: 10:00 – 13:00 Hrs.   Max. Marks: 50

✍ Answer any FIVE FULL questions.

✍ Give neat sketches wherever relevant. Assume any missing data appropriately.

1A. What is the 'prime dimension' in traditional building description system? What was its relevance?

1B. What planning regulations of traditional architecture resulted in controlling 'set-back' and ground coverage?

1C. What were the challenges in design communication? How were they overcome in traditional architecture?

(3+4+3 = 10 marks)

2A. Explain how 'yoni' method established relation between perimeter and orientation of a building in traditional architecture.

2B. Explain the method of providing openings in residential buildings in traditional architecture. What were the objectives and challenges?

(6+4 = 10 marks)

3A. Explain the traditional timber framed structures describing the salient features.

3B. Given a rectangular site with a road on its shorter side on eastern side, explain the steps followed in planning a "sabha" in that site.
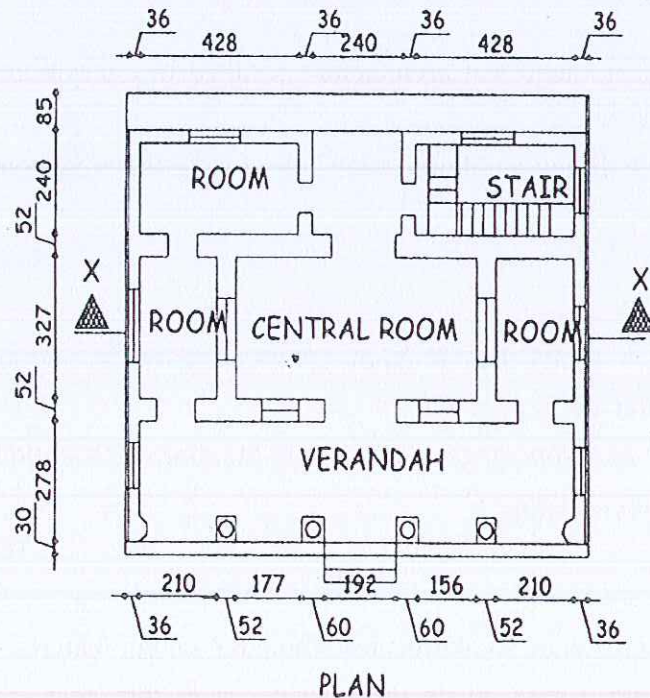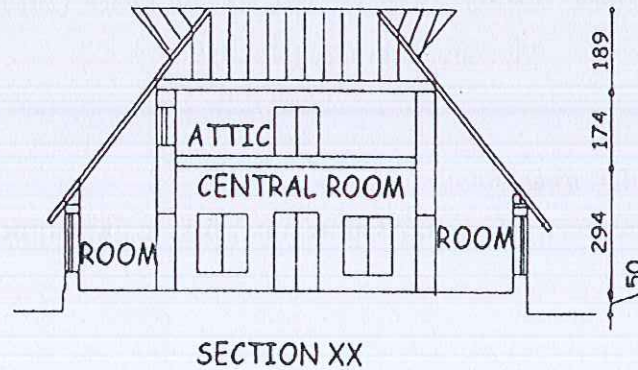
(5+5 = 10 marks)

4. **Explain the following:**

4A. *Vastupurushamandala*

4B. Incremental addition possibilities in residential planning in traditional architecture

4C. Anthropometry-based measurement system in vastuvidya

(10 marks)

5. Explain briefly with examples and with relevant sketches how local materials and climatic parameters in a region influence evolution of traditional built –form.

(10 marks)

6A. Explain the role of 'type- designs' in traditional housing. How is it relevant today?

6B. Check the building plan given below for its possible orientation as per *yoni* system of orientation. Compare orientation for the overall building plan with and without the front veranda (Take 1*pada* = 24 cm). If you make any other assumptions state them clearly.

SECTION XX

PLAN

(4+6 = 10 marks)