# MANIPAL UNIVERSITY

## SEVENTH/EIGHTH SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2017

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

Friday, November 17, 2017

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

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✍  **Answer any FIVE FULL questions.**

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

1A.  Explain the basic systems of measurements and units in traditional architecture.

1B.  Explain the concept of *mandala*.

(6+4 = 10 marks)

2A.  How is cardinal direction in a plot established in traditional practices?

2B.  What are the different types of "*shala*" and how do they support the modern concept of incremental addition?

(5+5 = 10 marks)

3A.  Explain the concept of '*ishtadeergha*'. How is the appropriate perimeter arrived at for a given plinth area of a building?

3B.  Explain the concepts of "*marma*" and "*gamana*". What are their significance in construction?

(6+4 = 10 marks)

4A.  What are the various plan types of "mandapa". Explain a typical cross section too.

4B.  How did vastuvidya principles control ground coverage and set-backs?

(6+4 = 10 marks)

5.  Taking examples from any of the coastal regions of India explain how the traditional built-forms had been responsive to hot-humid and heavy rainfall characteristics of the region.

(10 marks)

6.  **Explain the following giving neat sketches:**

6A.  Kootam

6B.  Adhishthaana

6C.  Typical traditional Gateway

6D.  Typical tradition door (wooden)

(2½ marks × 4 = 10 marks)