SUBJECT CODE NO: E-251
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E.(CIVIL) Examination Nov/Dec 2017
Building Planning & Design
(REVISED)

[Time: 3 Hours]   [Max.Marks:80]

Please check whether you have got the right question paper.

N.B   i.   Question no. 1 and question no. 6 are compulsory.
             ii.   Solve any two questions from question no. 2 to 5 and any one from question no.7 to 8.
             iii.   Figures to right indicate the maximum marks.

SECTION- A

Q.1   Attempt any FIVE.   10

       a) Enlist the different types of architectural composition.
       b) Define circulation. How it is achieved.
       c) Define FAR. How the different road width affects the maximum permissible limits of FAR.
       d) Differentiate between detached house and semi-detached house.
       e) What are the thumb rules for selecting the rise and tread?
       f) Draw a net sketch of Nahani trap.
       g) Enlist the different types of buildings.

Q.2   a) Enlist the different principles of architectural composition and explain Contrast and   07
          Rhythm.
       b) Explain in detail different climatic zones of India.   08

Q.3   a) What are the objectives of building byelaws?   08
       b) Explain in detail factors affecting the selection of site for residential building.   07

Q.4   a) Explain with neat sketch how to prepare a plan.   08
       b) Explain in detail testing of drains and maintenance of drains.   07

Q.5   Write a short note on (any three):   15
       a) Sun shading devices
       b) Byelaws for height limitation
       c) Privacy as a principle of building planning
       d) Drafting material and its utilization

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SECTION-B

Q.6   Plan and design a residential building for a family in new Aurangabad town using the following data.

      i)plot size 12m × 17m
      ii) Scale 1:50
      iii) plinth height 0.6m
      iv) Required components: Ent Verandah, Living Room, Bedroom, master bed, separate
      W.C, bath, kitchen –cum-dining room and stair case- doglegged. Draw:

      a) Working plan   05
      b) Locate the position of columns in plan   03
      c) Elevation   04
      d) Section through staircase   06
      e) Schedule of opening   03
      f) Area statement (block plan calculations)   04

Q.7   By assuming suitable data and standard norms list-out the requirement and draw a line plan of   15
Primary school building for 320 no. Of students.

Q.8   a) Explain with neat sketch two point perspectives.   08
          b) Write a short note on materials used in landscape design.   07

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