[Total Marks: 80]

(4 Hours)

N. B.: (1) Question No. **1** is **compulsory**. (2) Answer any **three** questions from remaining **five** questions. (3) Assume suitable data if required and state it clearly. 1. It is proposed to construct a **Boys Hostel** building as (G+1) RCC framed structure with the following requirements. 1) 2 Seated Rooms 10 nos -each 15 m² 2) 3 Seated Rooms 10 nos -each 25 m² - 20 m² 3) Guest Room -20 m^2 4) Entrance and Reception 5) Hostel Warden Room -15 m^2 -35 m^2 6) Indoor Games 7) TV/Audio Room -40 m^2 -30 m^2 8) Newspapers & Magazines -40 m^2 9) Kitchen 10) Dining Area -120 m^2 Provide passage, toilet, Dog legged staircase, etc. as per the bye-laws. Assume floor to floor height as 4 m. Draw with suitable scale i) Draw the ground floor plan 15 ii) Draw the line plan of first floor. 5 2. It is proposed to construct a Residential Bungalow as (G+1) R.C.C framed structure with the following requirements. -24 m^2 a) Living Room b) Master Bedroom with A.T -20 m^2 c) Bed Room -18 m^2 d) Kitchen - 12 m² e) Dinning Area - 14m² -15 m^2 f) Guest Room Provide entrance porch for vehicle parking, verandah, staircase, passage and sanitary units as per byelaws. Assume floor to floor height -3.3 m. i) Draw the **Ground Floor plan**. 15 ii) Draw the line plan of first floor. 05 Draw the Sectional Elevation for the Boys Hostel you have planned in Q.no1. **3** 20 (a) Explain all types of pitched roof in detail, with proper diagrams 4 **10** (b) Write principles of planning for Residential Building. 10 Draw Two -point perspective for the Boys Hostel you have planned in Q.no.1 5. 20 6. (a) Explain various types of Staircases with proper sketches. **10** Explain Sun path diagram & Wind rose diagram with sketches. (b) 10
