MANOHARGAD-IV (2009 COURSE): WINTER - 2015 SUBJECT: ADVANCED BUILDING TECHNOLOGY

: Mouday Time: 2.00 P.M. TO 5.00 P.M. Day Date Max. Marks: 100. :30.11-2015 N.B.: 1) All questions are COMPULSORY. 2) Both the sections should be written in SEPARATE answer books. 3) Figures to the RIGHT indicate full marks. 4) Assume suitable data if necessary. **SECTION-I** Q.1 Explain with sketches (Any Two) (10)a) Barrel vault. b) Prestressed reinforced concrete. Viewing distances in stadium. Q.2 Write short notes (Any Four) (20)a) Any two systems in steel for high rise building b) Gantry and crane Girder c) Explain flat and plate slab d) Preferred viewing locations in stadium 2-types of gutters in swimming pool. Q.3 Design a long span roof for an Indoor Stadium of size 40 m x 80 m (20)a) Give detail plan and section. b) Give any four enlarged detail. **SECTION-II** Q.4 Answer the following (Any One) (10)Rain water disposal detail in North light Roof. Wind load consideration in High Rise Building. Q.5 Write short notes (Any Four) (20)a) Expansion joint in long span structures b) Machine foundation Olympic Standards for Swimming Pool c) d) Bundled tube system Seating arrangements in Stadium. **Q.6** Design an Industrial Shed of size 18 m x 30 m. (20)a) Draw plan and section. Give any four enlarged details.

B. Arch final year part. I

MANOHARGAD-IV (2009 COURSE): SUMMER - 2016 SUBJECT: ADVANCED BUILDING TECHNOLOGY

Time: 10:00 AM . TO 1:00 PM. : Tuesday : 03-05-2016 Day Max. Marks: 100. N.B .: All questions are COMPULSORY. 1) Both the sections should be written in SEPARATE answer books. 2) Figures to the RIGHT indicate full marks. 3) Assume suitable data if necessary. **SECTION-I** (10)Q.1 Explain with sketches (Any Two) Wind upliftment in stadium roof design. Roofing systems in Industrial building. Double curvature shell. (20)O.2 Write short notes (Any Four) a) Framed Tube system b) Monitor roof system c) Various fixtures and fitting in swimming pool Sightlines in stadium d) Steel girders and Trusses (20)Q.3 Design an industrial building of size 12 m x 24 m. a) Draw plan and section b) Draw any four enlarged details. **SECTION-II** (10)Q.4 Answer the following (Any One) Explain Tension Roof Structures for long spans. Service layout and filtration system in the swimming pool. b) (20)Q.5 Write short notes (Any Four) a) Parabolic Hyperboloids b) Wall cladding systems in Industrial building c) Preferred viewing locations in Stadium Shear walls in High Rise Systems Waterproofing in swimming pool. Q.6 Draw a long span structure for an exhibition pavilion of size 15 m x 40 m. (20)Draw plan and section. Give any four enlarged details.