

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE – RAIGAD -402 103**

End Semester Examination – Winter Dec -2019

Branch: B. Arch

Subject:- Theory of Structure-I- (BA18014T)

Date -05/12/2019

Sem.:- I

Marks: 60

Time: - 2 Hrs.

Instructions: - 1. All Questions are compulsory

Q. No.1:- Solve all questions.

20 Marks

- i. Enlist the types of loads.
- ii. Enlist the types of Supports.
- iii. Define the Center of Gravity
- iv. Define the Moment of Inertia
- v. Enlist the types of loads.
- vi. what are the units of moment of inertia
- vii. What is the unit of C.G.
- viii. What is the unit of Point load
- ix. What is the unit of dead load
- x. What is the unit of U.D.L.

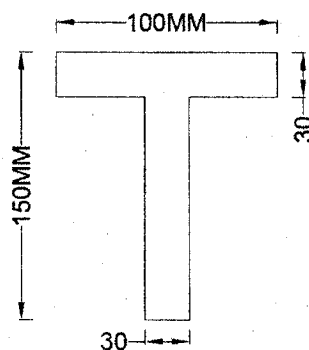
Q. No. 2:- Explain with neat Sketches any Two out of Three

10 Marks

- i. Explain the types of supports with neat sketch.
- ii. Explain the load distribution with neat sketch.
- iii. Explain the types of loads with neat sketch.

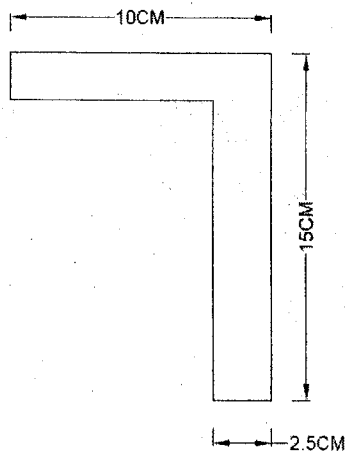
Q. No. 3:- Find the C.G. of the following fig

15 Marks



Q. No. 4:- :- Find the moment of inertia about centroidal X-X & Y-Y axis of an inverted L-section 15cm X 10cm X 2.5cm.

15 Marks



Paper End