

Roll No .....

**AU/ME-4003 (CBGS)**

**B.E. IV Semester**

Examination, November 2019

**Choice Based Grading System (CBGS)**

**Machine Drawing and CAD**

*Time : Three Hours*

*Maximum Marks : 70*

- Note:** i) Attempt any four questions.  
ii) Question No.3 is compulsory.

1. Draw elevation, plan and right side view of the machine block given in figure 1. 14

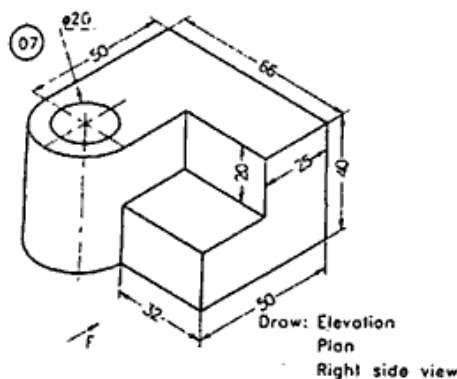


Figure 1 : A Cast Iron block

2. Draw the conventional representation of the following machine elements 14
- |                    |                      |
|--------------------|----------------------|
| a) External thread | b) Internal thread   |
| c) Bearing         | d) But joint         |
| e) Fillet weld     | f) Surface roughness |
| g) Spur gear       |                      |

3. Draw the full sectional front view of IC engine connecting rod whose parts are given in Figure 2. 28  
OR

The parts of cross head are given in Figure 3. Draw the full sectional point view of the cross head assembly.

4. Draw double riveted chain lap joint of 18 mm thick plates. Show at least three rivets in the plan and add a sectional elevation. Also mark all dimensions. 14
5. Explain the following terms used in CAD 14
- |                    |  |
|--------------------|--|
| a) CPU             |  |
| b) Input devices   |  |
| c) RAM and ROM     |  |
| d) Display devices |  |
| e) Output devices  |  |
6. What is meant by edit functions in drafting. List down commonly used 5 edit functions giving their uses. 14
7. Write short notes on any two 14
- |                      |  |
|----------------------|--|
| a) Knuckle joint     |  |
| b) Advantages of CAD |  |
| c) 3D models         |  |

