

E-1136

**B. E. 3rd Semester (Main & Re)
Examination – December, 2019**

MACHINE DRAWING

Branch : (ME)

Code : BME-304

Time : Three Hours]

[Maximum Marks : 60

Note : Attempt *all* questions from *Section – A* (Filling the blanks/MCQ), *four* questions from *Section – B* (Short Answer Type Questions) and *two* questions from *Section – C* (Long/Descriptive Answer Type Questions).

SECTION – A

[Marks : 1 × 10 = 10

Note : Attempt *all* questions.

1. Threads are classified into v thread, Acme thread, Knuckle thread, etc. on the basis of 1
 - (a) Start of thread
 - (b) hand of helix
 - (c) Profile of the groove
 - (d) Surface

2. Vice used for carpentry work has thread. 1
 - (a) square
 - (b) buttress
 - (c) acme
 - (d) square

P. T. O.

3. A rivet consists of a cylindrical part called

- (a) head
- (b) shank
- (c) cylinder
- (d) snap

4. If the volume of the extra length is lesser than the head, the joint may be

- (a) loose
- (b) tight
- (c) broken
- (d) failed

5. For double riveted butt joint, number of rows of rivet is

- (a) two
- (b) three
- (c) four
- (d) one

6. If one cover plate is used, thickness of cover plate is kept times that of the main plate.

- (a) 0.75
- (b) 1.25
- (c) 1.125
- (d) 1.5

7. In a the body is sawn to produce a prolonged shank.

- (a) semi-tubular rivet
- (b) tubular rivet
- (c) split pin rivet
- (d) compression rivet

8. are not hatched but darkened like solids.

- (a) Very thin parts
- (b) Thin parts
- (c) Thick parts
- (d) Single parts

9. Drawing showing the position of each part with respect to each other is called. 1
- (a) assembly drawing
 - (b) part drawing
 - (c) machine drawing
 - (d) Installation drawing
10. Working drawing is used by
- (a) product department
 - (b) customer
 - (c) marketing department
 - (d) designer

SECTION – B

[Marks : $5 \times 4 = 20$]

Note : Attempt any *four* questions.

1. Describe a Gib ant cotter joint with a suitable sketch. 5
2. Draw the eye foundation bolt give $\Delta = 24$ mm. 5
3. What are the types of riveted joint. 5
4. What is sleeve and cotter joint ? Also explain why cotter is provided with taper ? 5
5. Give two application of Knuckle joint. Write the design procedure of knuckle joint. 5
6. Draw free hand sketch of cotter joint. 5

SECTION – C

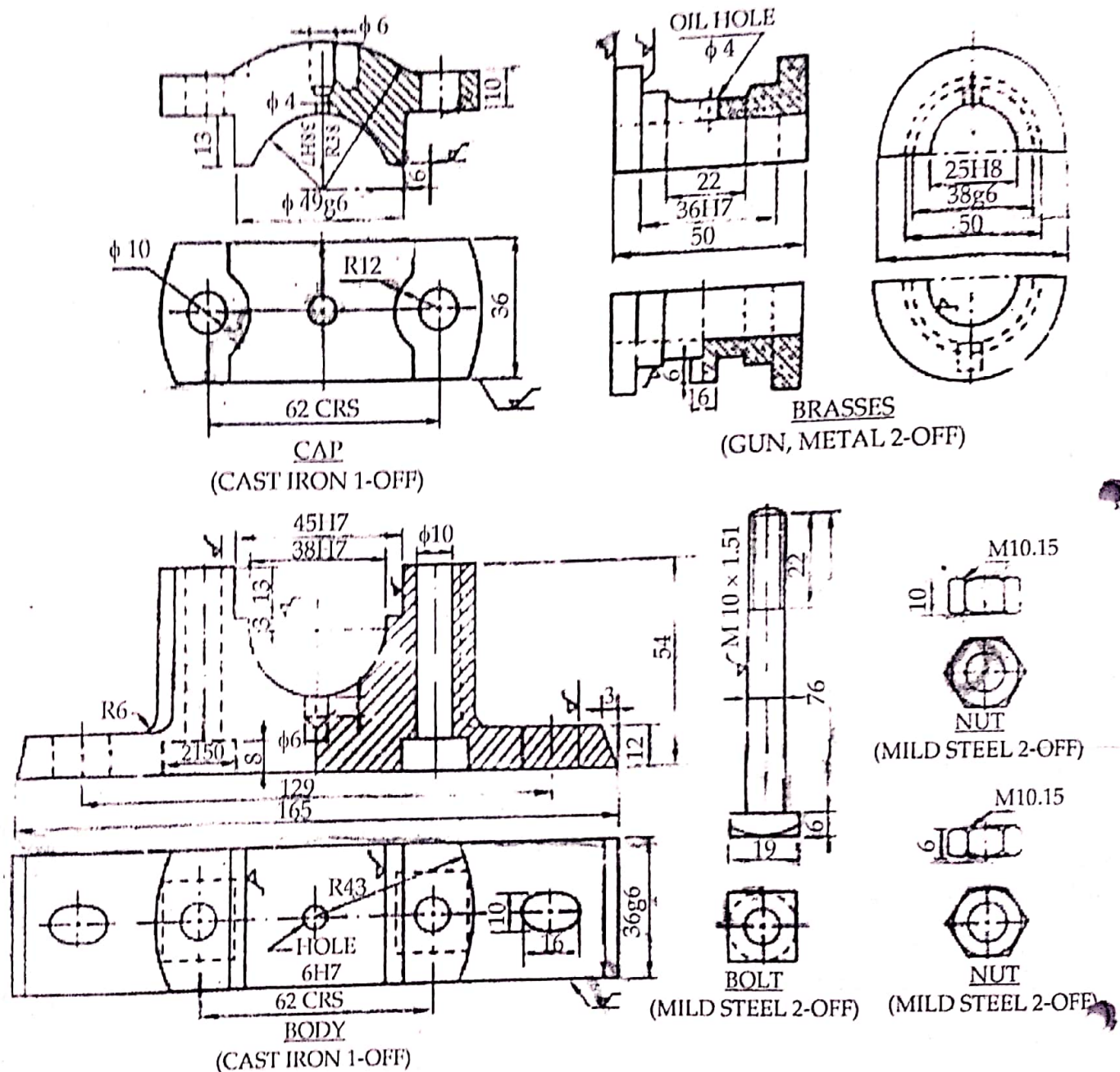
Note : Attempt any *two* questions.

1. Draw Assembly of plummerblock with top view and front view as given in fig. 1.

20

(3)

P. T. O.



2. Draw the three views of Hexagonal-Headed Bolt of 24 mm diameter and 100 mm long with a Hexagonal nut and a washer. $10 \times 1 = 10$

OR

What is computer aided design and drafting ? and What is the best purpose of learning it ? Which software is mostly used and how ? Also write any five command to draw machine component.