

ISC SEMESTER I EXAMINATION
SPECIMEN QUESTION PAPER
GEOMETRICAL AND MECHANICAL DRAWING

Maximum Marks: 80

Time allowed: One and a half hours

(Candidates are allowed additional 15 minutes for only reading the paper.)

The marks intended for questions are given in brackets [].

Attempt the given questions.

Figure 1 below shows the details of a socket and spigot joint used to connect two rods.

Rod 1 is in the form of a spigot (part 1). Rod 2 is in the form of a socket (part 2). Spigot is inserted in the socket. After aligning both spigot and socket the cotter pin (part 3) is tapered at one end thus preventing the joint to dissemble.

- (i) Draw a sectional elevation of the assemble components (along A-A). **[30]**
- (ii) Draw the plan (TV) omitting all the hidden details. **[20]**
- (iii) Draw the side view omitting all the hidden details **[20]**
- (iv) Make neat parts list for all the components **[10]**

Figure 1

