

**ISC SEMESTER 2 EXAMINATION**  
**SPECIMEN QUESTION PAPER**  
**GEOMETRICAL AND MECHANICAL DRAWING**

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*Maximum Marks: 80*

*Time allowed: One and a half hour*

*Candidates are allowed an additional 10 minutes for only reading the paper.*

*They must **Not** start writing during this time.*

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*All dimensions are in millimeters.*

*Arcs of circles less than 4mm radius may be drawn freehand.*

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*Attempt the given question.*

*The intended marks for questions or parts of questions are given in brackets. [ ]*

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**Question**

**Figure 1** attached, shows details of components of a Split Muff coupling used to transmit power from one shaft to another shaft.

Upper muff (part 3, Qty 1) is connected with the lower muff (part 3, Qty 1) using hexagonal nut (part 4, Qty 4) and bolt (part 5, Qty 4). Both the shafts (part 1, Qty 2) are passed through the main central cavity of both the muffs creating a space for inserting the key (part 2, Qty1) passing through the keyway provided on shaft and muff thereby providing a locking arrangement for the shafts.

- (i) Draw a full size sectional elevation along A-B of the assembled components. **[30]**
- (ii) Draw the plan (Top View) of the complete assembly omitting all hidden details. **[20]**
- (iii) Draw the left hand side view of the assembly omitting all hidden details. **[20]**
- (iv) Make a neat part list for all the components on your drawing sheet. **[10]**

### SPLIT MUFF COUPLING - DETAILS

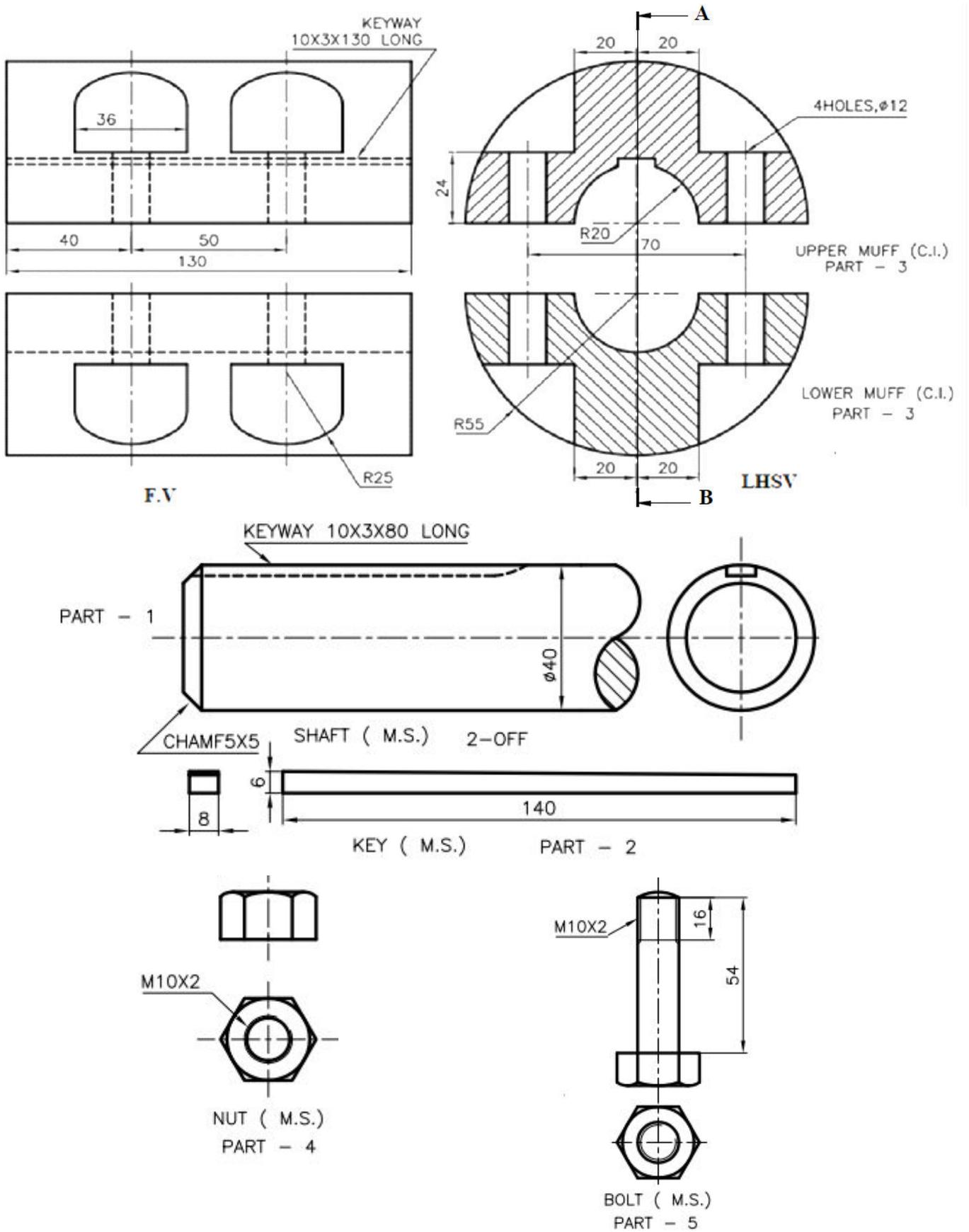


Figure 1