### Important Instructions to examiners:

1. The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
2. The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
3. The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills).
4. While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
5. Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate’s answers and model answer.
6. In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate’s understanding.
7. For programming language papers, credit may be given to any other program based on equivalent concept.

<table>
<thead>
<tr>
<th>Q. No.</th>
<th>Sub Q. N.</th>
<th>Answer</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>a)</td>
<td><img src="image" alt="Diagram" /></td>
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**Marking Scheme**

Sect. F.V = 05 & T.V = 05 mark
<table>
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<tr>
<th>Q. No.</th>
<th>Sub Q. N.</th>
<th>Answer</th>
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<tbody>
<tr>
<td>b)</td>
<td></td>
<td><img src="" alt="Diagram" /></td>
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Marking Scheme:
- F.V. 2 M
- T.V. 4 M
- S.V. 4 M
2 a) Distance of point Q from V. P i.e. \( x = 81 \text{ mm} \)

b) INITIAL POSITION 2 M
FINAL POSITION 6 M
c)

Initial position drawn away from vp or xy line may be considered.

INITIAL POSITION
2 M
FINAL POSITION
6 M
b)  

INITIAL POSITION  
2 M  
FINAL POSITION  
6 M

c)  

INITIAL POSITION  
2 M  
FINAL POSITION  
6 M
Solution drawn with side of base parallel to vp and away from xy may be considered.
c)

SFV 3M,
TV 3M,
TSS 2M.

INITIAL POSITION
2 M,
DEVELOPMENT 6M.
b) DRILLED SQ. HOLE WITH TWO SURFACES PARALLEL TO HP MAY BE CONSIDERED.

INITIAL POSITION 2 M, DEVELOPMENT 6M

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c)
SKETCH WITH LABEL 4M EACH, ANY FOUR.