S.E. (Printing) Examination, 2011
THEORY OF PRINTING MACHINES
(2008 Course)

Time : 3 Hours   Max. Marks : 100

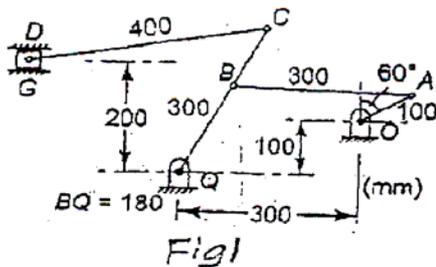**Instructions :** 1) Answers to the **two** Sections should be written in **separate** books.
2) **Neat** diagrams must be drawn **wherever** necessary.
3) Black figures to the **right** indicate **full** marks.
4) Your answers will be valued as a **whole**.
5) **Use** of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is **allowed**.
6) Assume **suitable** data, **if necessary**.

SECTION – I

1. a) What are quick return mechanisms ? Explain any one with application.   **8**

   b) Distinguish between :

      i) Kinematics and Dynamics

      ii) Machine and Mechanism   **8**

                                          OR

2. a) How are Kinematic pairs classified ? Explain with examples.   **8**

   b) Explain any two inversions of slider crank mechanism.   **8**

3. a) What are centripetal and tangential components of acceleration ?   **4**

   b) In the mechanism shown in Fig. 1, crank OA rotates at 210 rpm clockwise. Find acceleration of slider D and angular acceleration of link CD.   **12**

Fig 1

                                          OR