Government Institute of Printing Technology, Mumbai.

Sample Paper

Course: Gravure Printing Process Duration: 03Hours Code: M501 Marks: 80

Instructions to candidates:

- 1. Attempt all questions and illustrate your answers with neat sketches wherever necessary.
- 2. Figures to the right indicate full marks.

Q1) Attempt any 5 (20marks)

a) Write 2 functions of impression roller and write names of 2 elastomers used in impression roller.b) Name any eight substrates printed by gravure printing process.

c) Draw schematic diagram of gravure image carrier and name the parts.

d) Compare gravure printing process with flexography process.

- e) Name the different units of gravure printing machine and write parts of each unit.
- f) Write role of chrome plating on image carrier of gravure of 2 printing.
- g) Write the different reasons of doctor blade wear and tear.

Q2) Attempt any 2 (12 marks)

- a) Write one cause and one remedy for any three problems related to gravure process.
- b) Write 2 properties each of any three metals used in gravure cylinder making.
- c) Describe electromechanical engraving process of gravure cylinder making.

Q3) Attempt any 2 (12marks)

a) Write 4 characteristics of laser engraving process.

b Draw schematic diagram of doctor blade holder and write its function.

c) Draw different wraps diagram with advantages.

Q4) Attempt any 2 (12 marks)

a) Explain any one method of registration in gravure process.

b) Name the different type of unwinding and winding systems and explain working.

c) Write the ingredient in gravure inks with their function.

Q5) Attempt any 2 (12 marks)

a) Write in sequence, steps of chemical engraving process.

b) Explain three qualities required in gravure impression roller.

c) Name the different types of gravure printing and draw schematic diagram of any one type.

Q6) Attempt any 2 (12 marks)

a) What is contact angle and draw schematic diagram of it. Also explain its importance.

b) Name the different type of screens and angles with schematic diagram in gravure process.

c) Explain different ink test carried in gravure printing process.

d) What is ESA systems explain with schematic diagram of it?