

B.TECH.

**THEORY EXAMINATION (SEM-VIII) 2016-17
TECHNOLOGY OF PRINTING-II**

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION-A

1 Explain the following:

(10×2=20)

- a) What is the role of binder in pigment printing?
- b) What is the purpose of drying & washing-offs treatment?
- c) Define steaming process.
- d) Define ageing.
- e) What are discharging agents?
- f) What is fixation process in printing?
- g) What is digital printing & what are its components?
- h) Define Curing.
- i) Define resist style of printing?
- j) What is sublimation transfer printing?

SECTION-B

2. Attempt any five of the following:

(10×5=50)

- a) How do you print Polyester/cellulosic blended fabric with disperse/reactive system. Discuss in detail.
- b) Describe discharge and resist style of printing with azoic colors.
- c) Describe flock printing along with neat sketch of machine used.
- d) Discuss in details the pigment printing process and its mechanism.
- e) Write a short note on the following:-
 - i) Damask style
 - ii) Metal Printing
- f) Discuss in details the Raised & crepon style of printing with suitable recipes.
- g) Discuss in detail the dye fixation methods of printing with reactive dyes.
- h) Describe merits and limitations of transfer printing.

SECTION-C

Attempt any two of the following:

(15×2=30)

- 3 Discuss in details the various types of steam used for fixation process. Also discuss in details the various types of steamers used with neat sketch diagrams.
- 4 What is sublimation transfer printing? Discuss in details the mechanism and various methods used for sublimation transfer printing process with neat sketch of machine diagrams.
- 5 Discuss in details the working principle of continuous Ink jet (CIJ) & (DOD) Drop-on-demand (DOD) with a suitable line diagram. Also discuss the advantage & disadvantage of both.