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.