Ref. No. **Ex/PRN/PC/B/T/321/2023**

B.PRINTING ENGG. EXAMINATION 2023

THIRD YEAR SECOND SEMESTER

SUBJECT: **Post Press Operations**

Time: Three hours Full Marks: 100

CO1 (Answer any One)

1. (a) Compare between Work and Turn & Work and Tumble Imposition Schemes.
   (b) Draw a 32 pages Imposition Scheme using Work and Back Method. 5+5=10
2. (a) Work and Tumble Imposition Scheme is rarely used. Why?
   (b) What is Shingling?
   (c) What is role of paper grain in planning a Book work for Printing having multiple colour images to be printed using sheetfed offset press? 3+3+4=10

CO2(Answer any one)

3. (a) Define "Folding to Paper" and " Folding to Print"
   (b)How many pages a section should have, should be decided in the planning stages. Why?
   (c) Discuss with neat sketch the working principle of buckle folder. (3+3)+4+10=20
4. (a) Buckle folder is rarely used in book production. Why?
   (b) Compare between Knife Folder and Buckle Folder.
   (c) Discuss with neat sketch the Rotary Drum type gathering unit.
   (d) Discuss in brief, the Black Step method of Collating. 2+5+9+4=20

CO3(Answer any three questions)

5. Discuss with neat sketch the different loom sewing techniques used in binding 20
6. (a) What are the purposes of rounding a book?
   (b) Discuss in brief, the different rounding method adopted.
   (c) What are the purposes of backing?
   (d) Discuss in brief, the backing techniques adopted in binding. 5+5+4+6=20
7. (a) Perfect binding is not usually used in magazine production. Why?
   (b) Discuss how the types of paper influence the perfect binding.
   (c) Discuss how the grain direction of paper affect the perfect binding.
   (d) Discuss the functional parts of the perfect binding machine. 2+6+5+7=20
8. (a) Define loose leaf and mechanical binding
   (b) Compare between loose leaf and mechanical binding.
   (c) Discuss in brief, the different types mechanical binding used. (3+3)+ 6+8=20

[Turn over

CO4 (Compulsory)

9. (a) Any job planned for hand-folding should not be used for machine folding whereas any job planned for machine folding may be used for hand-folding. Why?

(b) What are the purposes of sewing the sections of book?

(c) After sewing of the assembled sections of the book, it has been found that there is a difference in thickness between the fore edge and the spine of the book. Why?

How can it be eliminated? 3+2+(2+3)=10