

Ref. No. Ex/PRN/PC/B/T/321/2023(S)

BACHELOR OF PRINTING ENGINEERING(SUPPLE) EXAMINATION 2023
(Third Year, Second Semester)
Post Press Operations

Time: Three hours

Full Marks: 100

CO-1 (Answer any One Question)

- 1.(a) Compare between Work and Back & Work and Turn Imposition Schemes.
(b) Draw 32 Pages Imposition Scheme using Work and Turn method.
(c) Work and Tumble Imposition Scheme is rarely used. Why?
(d) What is Shingling? 5+8+3+4=20
- 2.(a) What are the properties of the paper that should be considered during planning of a book to be bound after printing? Discuss in brief.
(b) Discuss in brief, the Black-Step method of collating. 16+4=20

CO-2 (any One Question)

3. (a) Buckle folder is not generally used for folding the printed material used for book production purpose whereas knife folder is used for the same purpose. Why?
(b) The number of pages in a section of a book will be considered at the beginning of the planning. Why?
(c) What are the methods employed to assembly the folded materials of a book?
Of these methods which one is used for the assembly of sections of a book comprising of 50 sections?
(d) Discuss with sketch the Swinging Arm Automatic Gathering method. 4+4+(3+1)+8=20
4. (a) Define “folding to Paper” and “folding to Print”.
(b) Compare between knife folder and buckle folder.
(c) Discuss with neat sketch the operation of knife folder. 4+5+11=20

CO-3 (any Two Questions)

5. (a) What do you mean by gathering?
(b) Discuss in brief, the effect of paper grain in adhesive binding.
(c) What are the purposes of rounding a book?
Discuss in brief, the methods of rounding a book.
(d) What are the purposes of backing?
Discuss in brief, the methods used for backing the book. 2+4+(4+4)+(3+3)=20
6. Discuss with sketches the different types of loom sewing used for binding. 20
7. (a) Define Stab Stitching and Pamphlet Stitching.
(b) Discuss in brief, the different methods of attaching the cover boards with the book.
(c) Discuss in brief, the different functional parts of the saddle stitching unit.
(d) Discuss the three main differences between loose leaf and mechanical binding. (2+2)+6+7+3=20

CO-4 (Compulsory)

8. (a) What are the purposes of sewing the sections of the book?
(b) What are the purposes of applying the cords or tapes during the sewing of the sections of the book?
(c) What are the purposes of back-lining ?
(d) The grain direction of paper used for book publication purpose should be parallel to the spine of the book as well as to the axis of the sheet fed offset machines used for printing. Why?
(e) Adhesive binding is not usually used in Magazine production. Why?
(f) 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?
(g) After sewing of the assembled sections of the books, 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? 2+2+2+4+2+4+(2+2)=20