

B. PRINTING ENGG. EXAMINATION 2024

THIRD YEAR SECOND SEMESTER

Post Press Operations

Time: Three hours

Full Marks: 100

CO 1 (Answer Any One)

1. (a) Compare Work and Back & Work and Turn Imposition Schemes.
(b) Draw a 32 pages Imposition Schemes using Work and Turn Method. $5+5=10$
2. (a) What are the factors that influence the number of pages in a section of the book?
(b) What is creep out? How can it be planned?
(c) What is the requirement of paper dimension for Work and Back & Work and Turn Imposition Schemes? $4+4+2=10$

CO2 (Answer Any one)

3. (a) Discuss the properties of paper that should be considered during the planning of a book to be bound after printing?
(b) Discuss the Black Step method of Collating. $16+4=20$
4. (a) Compare between knife and folder.
(b) Discuss with sketch the working principle of knife folder.
(c) What do you meant by “Folding to Paper” and “Folding to Print”?
Out of these two methods which method is adopted for machine folding? $5+10+(4+1)=20$

CO3 (Answer Any Two)

5. (a) What are the purposes of sewing the sections?
(b) What are the functions of the Cords and Tapes used in sewing of the book?
(c) Discuss with sketches the different loom sewing techniques used in the sewing of the sections. $2+3+20=25$
6. (a) Discuss with schematic diagram the swing Arm Gathering unit
(b) What are the purposes of rounding a book?
(c) Discuss the method of backing a book.
(d) Discuss the methods of attaching cover boards of the books. $10+5+4+6=25$
7. (a) Discuss the effect of paper types on the strength of books bound by perfect binding.
(b) Discuss the effect of paper grain direction on the strength of books bound by perfect binding.
(c) Discuss the functional parts of Perfect binding machine.
(d) Discuss in brief the different types of mechanical binding methods adopted for binding of books. $6+5+7+7=25$

CO4 (Compulsory)

8. (a) The grain direction of paper used for book publication purpose should be parallel to the spine of the book as well as parallel to the axis of the sheet fed offset machine used for printing. Why ?
- (b) Any job planned for hand folding should not be for machine folding whereas any job planned for machine folding may be used for hand folding. Why ?
- (c) Buckle folder is not usually employed for folding the printed material used for book publication purpose. Why ?
- (d) Work and Tumble imposition scheme is rarely used. Why ?
- (e) 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? $4+4+4+3+(2+3) = 20$