Ref. No. **EX/PRN/T/325/2019**

BACHELOR OF PRINTING ENGINEERING EXAMINATION 2019

(Third Year, Second Semester)
Planning and Finishing

Time: Three hours Full Marks: 100

Answer question number 1 and **any four questions from the rest.**

1. a) The number of pages in a section of a book should be decided during planning. Why?
   b) What are the purposes of sewing?
   c) Define Pamphlet stitch and Stab stitch.
   d) What are the purposes of applying cords or tapes during sewing?
   e) Buckle folding is not generally used for book production purposes. Why?
   f) What are the purposes of backlining?
   g) Work and Tumble Imposition Scheme is rarely used. Why? 4+2+4+2+3+2+3 =20

2. a) What are the properties of paper to be considered during planning of a job to be bound after printing? Discuss in brief.
   b) Discuss in brief " the black step method" of collating. 16+4=20

3. Discuss with neat sketches the different types of loom sewing used in binding. 20

4. a) Define "folding to paper" and "folding to print"
   b) Compare between Buckle folder and Knife folder.
   c) Compare between "Work and Turn" and "Work and Back" imposition schemes.
   d) Discus with sketch the working principle of buckle folder. 4+4+4+8=20

5. 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) Discuss in brief, the different functional parts of the saddle stitching unit.
   c) Discuss with sketch the Rotary Drum Automatic Gathering method. 4+7+9=20

6. a) What are the purposes of rounding a book?
   (b) What are methods used for rounding? Discuss in brief.
   (c) Discuss in brief, the methods of attaching the cover-boards.
   (d) What are the purposes of backing? 5+5+6+4=20

7. a) Adhesive binding is not usually used in magazine production. Why?
   b) How does the grain of paper affect the perfect binding?
   c) How does the types of paper affect the adhesive binding?
   d) Discuss in brief, the functional parts of adhesive binding machine.
   e) Draw the flow chart of adhesive binding starting from printing. 2+4+4+6+4=20