

B. Printing Engineering Examination 2017

(Third Year, Second Semester)

Planning and Finishing

Time: Three hours

Full Marks:100

Answer **Question No. 1** and any **five** Questions

1. (a) The number of pages in a section of the book should be decided during planning. Why?  
(b) What are the purposes of backing?  
(c) Discuss in brief, the Blackstep method of collating.  
(d) What are the purposes of applying cords and tapes during sewing?  
(e) Buckle folders is not usually used in book production. Why?  
(f) Work and Tumble Scheme is very rarely used. Why? 4+4+4+2+3+3=20
  2. (a) What are the purposes of rounding a book?  
(b) Discuss in brief the method of rounding.  
(c) Discuss in brief the methods of attaching the cover-boards. 5+5+6=16
  3. (a) Draw the flow chart of perfect binding.  
(b) Discuss with sketch the drum type gathering unit.  
(c) Define Pamphlet stitch and stab stitch. 4+8+(2+2)=16
  4. Discuss with neat sketches the different types of loom sewing techniques used in binding. 16
  5. What are the properties of the paper that should be considered during planning of a book to be bound after printing? Discuss in brief. 16
  6. (a) Define "Folding-to-paper" and "Folding-to-print"  
(b) What are the purposes of backlining?  
(c) What are the purposes of sewing?  
(d) Discuss with neat sketch the working principle of buckle folder. (2+2)+2+2+8=16
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7. (a) Perfect binding is not usually used in Magazine production. Why?

(b) How does the grain direction of paper affect the perfect binding.

(c) Discuss how the types of paper influence the perfect binding.

(d) Discuss the functional parts of the perfect binding machines.

2+4+4+6=16

8. (a) What are the differences between gathering and collating?

(b) Compare between the Work & Turn and Work & Back Imposition Schemes.

(c) Compare between Buckle Folder and Knife Folder.

(d) Discuss in brief, the automatic inserting machines used for inserting sections. 3+4+4+5=16