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ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. /B.Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, Jan / Apr 2024



Printing and Packaging Technology

VI Semester

PT 5602 & Print Finishing

(Regulation 2019)

Time : 3 hrs

Max. Marks: 100

CO1	Outline and discuss the print finishing workflow
CO2	Examine and operate automatic and semi-automatic guillotine machines.
CO3	Plan the sequences suitable for various types of securing operations.
CO4	Design and construct hard case for book binding
CO5	Examine and operate various print finishing machineries

BL – Bloom's Taxonomy Levels

(L1-Remembering, L2-Understanding, L3-Applying, L4-Analysing, L5-Evaluating, L6-Creating)

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

Q.No	Questions	Marks	CO	BL
1	Give a definition for "Binding" and "Print finishing"	2	CO1	L1
2	Define the term Varnishing and its types.	2	CO1	L2
3	Expand the terms ASTI and JDF.	2	CO2	L1
4	Distinguish between Embossing and Debossing	2	CO2	L2
5	What are the three methods of hand folding commonly employed in the binderies.	2	CO3	L1
6	Write the other name of two on and Raised cord sewing.	2	CO3	L2
7	What are the types of loose-leaf binding?	2	CO4	L1
8	What is called Burst cut?	2	CO4	L2
9	Brief out the necessity of spot UV coating	2	CO5	L1
10	List the types of boards used for binding?	2	CO5	L2

PART- B (5x 13 = 65 Marks)

(Restrict to a maximum of 2 subdivisions)

Q.No	Questions	Marks	CO	BL
11 (a) (i)	What are the types of Book Binding? Explain in detail with the neat diagram.	08	CO1	L4
(ii)	Explain in detail about the reinforcing materials used in binding.	05	CO1	L3
OR				
11 (b) (i)	Classify the types of Adhesives used in Print Finishing and explain any two.	08	CO1	L4
(ii)	What are the types of end paper and explain the process in detail.	05	CO1	L3
12 (a) (i)	Explain the purpose and Working principle used in the Guillotine cutting machine with the simple diagram.	10	CO2	L3
(ii)	Discuss the problems and remedies during cutting	03	CO2	L5

OR

12 (b) (i)	Explain the operational procedure of sensors and hydraulic systems used in the cutting machine.	10	CO2	L3
(ii)	Discuss in detail about the types of motion used in cutting machine.	03	CO2	L5
13 (a)	Explain the operating principle of Buckle folding and knife folding with neat sketch	13	CO3	L3

OR

13 (b)	Define the terms Creasing, Collating, Folding, Die Cutting, scoring, Inserting, Gathering, Attaching the plates with neat sketch.	13	CO3	L3
14 (a) (i)	Briefly explain the different types of sewing used in the binding with the neat sketch .	09	CO4	L4
(ii)	Describe the process involved in Rounding and Backing Machine and its operations	04	CO4	L5

OR

14 (b) (i)	Explain the principle and the characteristic elements of perfect binding systems.	09	CO4	L4
(ii)	Write note on (a) Gate fold (b) Accordian fold.	04	CO4	L5
15 (a) (i)	Discuss the methods of Laminations used for Print finishing.	09	CO5	L4
(ii)	Differentiate Perforation and Creasing applied to the printed materials in Binding.	04	CO5	L5

OR

15 (b) (i)	Elaborately explain the types of edge decorations used in print finishing process with the neat sketch	09	CO5	L4
(ii)	Explain the principles of Hot and cold foiling stamping.	04	CO5	L5

PART- C (1 x 15 = 15 Marks)

(Q.No.16 is compulsory)

Q.No	Questions	Marks	CO	BL
16 (i)	Draw a neat sketch about the Wire Stitching Machine and its operations	10	CO5	L6
(ii)	Discuss in detail about the preparation of case binding.	5	CO5	L6

