## B. E. Printing Engineering 2<sup>nd</sup> Year 2<sup>nd</sup> Semester Examination, 2022 Subject: Digital Printing

Total marks - 100

Time: 3Hrs

Answer each CO separately in one place and mention the question number clearly.

Answe	r any 2 questions [CO1: Discuss digital printing technologies (K2)]	40
	a) Describe the basic electrophotography process with required diagram.	10
1.	b) Describe the need of piezo crystal in inkjet printing.	4
	c) Describe the direct thermal printing process.	6
2.	a) Describe cascade, magnetic brush and impression cylinder development processes.	10
	c) Describe the principle of vibration type inkjet printing process.	10
3.	a) Describe the D2T2 process and its applications.	8
-	b) Describe the deflection type inkjet printing process.	8
	<ul> <li>c) Describe the advantages of thermal printing over xerography and inkjet printing.</li> </ul>	4
Answ	er any 2 question [CO2: Analyze digital prepress. (K4)]	30
4.	a) Analyze the function of halftoning.	7
	b) Analyze the cover designing aspect of prepress.	4
	c) Analyze the use of raster and vector images.	4
5	. a) Analyze the advantages of stylesheet.	4
	b) Analyze the concept of AM screening.	5
	c) Analyze the function of PostScript.	6
6	. a) Analyze the functions registration marks, crop marks and bleed marks.	6
- 2	b) Analyze the function of PDF.	6
	c) Analyze the need of PMT in scanners.	3

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Answ	er any 2 question [CO3: Describe digital proofing. (K2)]	20
7.	Describe the working principle and use of densitometer.	10
8.	Describe the need of preflighting and some of the parameters to be considered	lered whi
	preflighting.	10
9.	Describe the need of calibration and the process of prepress calibration.	10
Answ	er any 1 question [CO4: Evaluate varieties of application (K6)]	10
10	). Evaluate the need of POD and how digital printers can help to meet those needs.	10
1	1. Evaluate the need of Web2Press and how it can be advantageous for print industry.	10