

BACHELOR OF PRINTING ENGINEERING FOURTH YEAR FIRST SEMESTER - 2019

NONIMPACT PRINTING

Time: Three hours

Full Marks: 100

Answer Any **Five** Questions

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| 1. | a) Write on photosensitivity. | 4 |
| | b) Explain cascade development. | 6 |
| | c) Discuss liquid electrophoretic development in details with necessary diagram. | 10 |
| 2. | Explain dye-diffusion thermal transfer. | 20 |
| 3. | a) Write on magnetic brush development. | 8 |
| | b) Explain the curve on charging and discharging of xerographic plate. | 4 |
| | c) Write the important electric and photoelectric characteristics of xerographic plate coatings. | 4 |
| | d) What are the various methods of image development in xerography? | 4 |
| 4. | Explain rasterscan continuous inkjet and binary inkjet with necessary diagram. | 20 |

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| 5. | a) Explain discharge area development and charge area development. | 8 |
| | b) What is residual potential? | 4 |
| | c) Explain fatigue | 4 |
| | d) What is acceptance potential? | 4 |
| 6. | a) What are the process steps of xerography? Explain with diagram | 6 |
| | b) Distinguish between continuous inkjet and drop on demand technology. | 4 |
| | c) Describe sensitizing or charging. | 10 |
| 7. | a) What are the classes of inkjet printing technology? | 5 |
| | b) Explain direct thermal printing. | 10 |
| | c) Explain thermal melt transfer. | 5 |
| 8. | a) Explain hertz continuous inkjet technology with diagram | 5 |
| | b) Explain piezoelectric and thermal inkjet system | 5 |
| | c) What type of photosensitive surface is used in xerography? | 4 |
| | d) How thermal inkjet works. | 6 |
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