

# 19522

**11920**

**3 Hours / 100 Marks**

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answers with neat sketches wherever necessary.  
(4) Figures to the right indicate full marks.  
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any FIVE of the following: 20**
- Write four characteristics of impact printing process.
  - Define: Digital printing and describe two factors that aided its development.
  - Describe soft proofing technique.
  - Describe two types of RJP.
  - Write two advantages and two limitations of hexachrome printing process.
  - Write names of eight substrates used in digital printing.
  - Which digital printing technologies are used in wide format printing? Write their advantages.
- 2. Attempt any TWO of the following: 16**
- Write four advantages and four applications of digital printing.
  - Explain working principle and stages in eletrophotography.
  - Explain working principle and classification of inkjet printing process.

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- 3. Attempt any TWO of the following: 16**
- a) Explain the composition of liquid toner and dry toner used in electrophotography.
  - b) Compare inkjet printing with Electrophotography upto eight points.
  - c) Write six characteristics and two advantages of CIP-4 technology.
- 4. Attempt any TWO of the following: 16**
- a) Explain working of charge generation material and charge transport material.
  - b) Explain construction and working of thermal transfer printing process.
  - c) Draw schematic diagram and write two characteristics each:
    - (i) Magnetography
    - (ii) Ionography
- 5. Attempt any TWO of the following: 16**
- a) Draw schematic diagram of electrophotography and write stages involved.
  - b) Explain working principle of electrostatic printing with schematic diagram.
  - c) Write four advantages each of digital proofing and colour managed workflow.
- 6. Attempt any TWO of the following: 16**
- a) Explain construction and working of colour digital faser printer.
  - b) Write two applications each of Magnetography Ionography (Ion Deposition), Electrostatic printing and thermal transfer printing.
  - c) (i) Define colour gamut and colour management.  
(ii) Explain importance of memory and processor in digital printer.
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