

Total No. of Questions : 6]

SEAT No. :

P1088

[4659] - 193

[Total No. of Pages : 2

B.E. (Printing)

a - SECURITY PRINTING

(2008 Course) (408282) (Elective - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *Solve 3 questions from each section.*
- 2) *Q1 & Q4 are compulsory.*
- 3) *Assume suitable data for Q6 if necessary.*

SECTION - I

Q1) What is Security Printing? Explain any 3 systems which need Security printing in low, medium and high security features. **[18]**

OR

Explain Optical document security with details of applications and elements.

Q2) Discuss Printing processes applied to security printing in detail. **[16]**

OR

What are Variable data printing features in security printing? Explain with examples.

Q3) What are smart cards? Describe manufacturing process and features. **[16]**

OR

Discuss RFID technology for security printing with examples.

P.T.O.

SECTION - II

Q4) What are negotiable instruments? Explain structure and detail features. Also explain CTS system. **[18]**

OR

Explain MICR/OCR/Cheque printing technology & methods of Cheque fraud prevention.

Q5) Explain types of security Inks. Explain any 2 with examples. **[16]**

OR

Explain features of currency inks. Also discuss types of inks used To print cheques and stamps.

Q6) Explain features of security elements used in currency printing in detail. **[16]**

OR

Write notes on:

- a) Holograph features
- b) Guilloche patterns
- c) Void mark.

