

22/11/13.

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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013

PRINTING TECHNOLOGY

Semester V

PT9029 & Security Printing

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What is a see through image?
2. What material is used to make security thread?
3. What is MICR?
4. What are the types of barcode scanners?
5. What is a computer form?
6. What is an intelligent electronic form?
7. What is a hologram?
8. Draw the schematic diagram of hologram recording.
9. What is an optically variable ink?
10. What is a fugitive ink?

Part – B (5 x 16 = 80 marks)

11. Explain in detail about the various types of computer forms.
12. a) Explain in detail about the various security features of Indian Currency.
(OR)
b) Explain in detail about the two techniques used for incorporating a security thread.
13. a) Explain in detail about the design features of cheque.
(OR)
b) i) Explain about linear barcode structure with proper illustrations and formula. (6)
ii) Explain various methods used to check the accuracy of a barcode. (10)
14. a) Explain in detail about the various light sensitive materials used in holographic films.
(OR)
b) i) What is an in-line hologram? Explain with suitable derivation. (8)
ii) Explain about magnetic strips and their recording method. (8)
15. a) Explain in detail about thermochromic inks with suitable examples.
(OR)
b) Explain in detail about invisible inks with suitable examples.