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FARMAGUDI - PONDA

BCA SEMESTER II INTRA SEMESTER ASSESSMENT TEST - I, JANUARY 2014

DISCRETE MATHEMATICS

Duration: 45 mins

Max. marks: 15

*Instructions:*

a. Answer ALL of the following questions.

b. Use of calculators is NOT permitted.

1. Convert 11011.101 from binary to decimal number system. (4)

2. If  $A = \{m, n, o, p\}$ ;  $B = \{m, o, p, q\}$ ;  $C = \{m, p, r\}$ ; and the universal set is defined as  $U = \{k, l, m, n, o, p, q, r, s\}$ , then find:

a)  $A \cup B$

b)  $A' \cap C$

c)  $B - C$

d)  $A \cap (B \cup C)$

e)  $(A \cup B)'$  (5)

3. Convert  $(51FB)_{16}$  to:

a) Decimal number system (3)

b) Octal number system (3)

\*\*\*\* best of luck \*\*\*\*