



Seat No.	
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S.Y. B.Sc. (Semester – II) Examination, 2013  
**MATHEMATICS (Paper – II (B))**  
**MT – 222 : Discrete Mathematics (2008 Pattern) (511B2)**

Time : 2 Hours

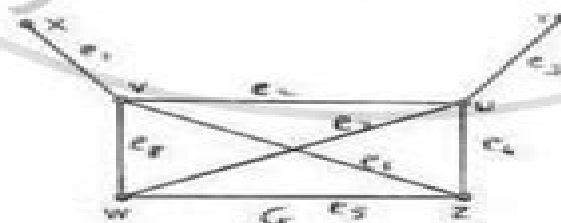
Max. Marks : 40

**N.B. :** 1) *All questions are compulsory.*  
 2) *Figures to the right indicate full marks.*  
 3) *Use of non-programmable scientific calculator is allowed.*

1. Answer any five of the following :

10

- Prove that for integer  $n \geq 3$ ,  $n^2 \geq 2n + 1$ .
- Find the number of permutations that can be formed from all the letters of each word : "BENZEME".
- List all self-complementary graphs on 4 vertices.
- Consider the recurrence relation  $a_n = a_{n-1} + 3a_{n-4}$ . Is it a linear recurrence relation ? If yes, then what is its order ?
- Give an example of a graph which is Hamiltonian but not Eulerian.
- How many different five card hands with 2 red and 3 black cards can be obtained from a deck of 52 cards ?
- Draw the graph after the fusion of  $u$  and  $v$  given below.



2. Answer any two of the following :

10

- Prove that  $n^4 - 4n^2$  is divisible by 3, for all  $n \geq 2$ .
- Prove that the maximum number of edges in a simple graph with  $n$  vertices and  $k$  components is  $\frac{(n-k)(n-k+1)}{2}$ .

# Question Paper Discrete Mathematics Semester

**Jianjun Gao**



## **Question Paper Discrete Mathematics Semester:**

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