

International Islamic University, Islamabad

FACULTY OF BASIC AND APPLIED SCIENCES

MS Mathematics Admission Test

Max. Time: 90 Minutes

50 MCQs from the following subjects and all to attempt:

- Q.No.1. Real Analysis-I
- Q.No.2. Group Theory.
- Q.No.3. Ordinary Differential Equations
- Q.No.4. Differential Geometry-I
- Q.No.5. Complex Analysis
- Q.No.6. Linear Algebra
- Q.No.7. Set Topology
- Q.No.8. Real Analysis-II
- Q.No.9. Partial Differential Equations
- Q.No.10. Functional Analysis-I
- Q.No.11. Analytical Mechanics
- Q.No.12. Numerical Methods
- Q.No.13. Mechanics

e) none of these

Some questions as example:

Q.No. 1. Let (X,d) be the discrete metric space, x be an element of X and r be a real number with $r>1$. Then the open ball $S_r(x)$ is			
a) an infinite set	b) a closed inte	rval c) empty set	d) equal to X
e) a subset of set of integers			
Q.No.2. Every bounded below and increasing sequence is			
a) convergent	b) divergent	c) neither convergent nor divergent	
d) May be convergent and may be divergent e) none of these			
Q.No. 3. Inertia matrix is a			
a) tensor of order 3 k	o) tensor of order 2 c) ve	ctor of magnitude 1	d) triangular matrix