MATH Exam Paper

Subjective Questions

1. What is the Pythagorean theorem and explain its application?
Answer:
2. Derive the quadratic formula from the general form of a quadratic equation.
Answer:
3. Explain the concept of limits in calculus.
Answer:
4. Solve the following system of equations using substitution method: $2x + y = 10$ and $3x - y = 5$.
Answer:

5. What are eige	avalues and eigenvectors? Provide an example.	
Answer:		
6. Describe the	ifference between permutations and combinations.	
Answer:		
7. What is the fu	ndamental theorem of algebra?	
Answer:		
0.5.1.1		
8. Explain how	ne binomial theorem can be used to expand expressions.	
Answer:		
0. Find the design	stive of the function $f(y) = y \wedge 2 + 5y \wedge 2 + 7$	
9. Find the defiv	ative of the function $f(x) = x^3 + 5x^2 - 2x + 7$.	
Answer:		

10. Explain the concept of mathematical induction and prove the sum formula for the first n integers.				
Answer:				
11. Formula of circle?				
Answer:				
12. What is the formula of a triangle?				
Answer:				
MCQ Questions				
Wicy Questions				
13. What is $2 + 2$?				
a) 4	b) 5			
c) 6	d) 7			
14. What is 5 * 6?				
a) 25	b) 30			
c) 35	d) 40			

15. What is the square root of 16.		
a) 2	b) 4	
c) 6	d) 8	
16. What is 12 / 4?		
a) 2	b) 3	
c) 4	d) 5	
17. What is 9 + 10?		
a) 18	b) 19	
c) 20	d) 21	