## **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	. What are eigenvalues 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 denix	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:					

1	ncept of mathematical			
Answer:				
1 5 1 6 '	1.0			
1. Formula of cir	ાe? 			
Answer:				
2. What is the fo	mula of a triangle?			
Answer:				
3. abcdefghi				
Answer:				
4. hjaskfasf				
Ληςινον				
Answer:				

15. musadiq balouch			
Answer:			
MCQ Questions			
16. What is 2 + 2?			
a) 4	b) 5		
c) 6	d) 7		
17. What is 5 * 6?			
a) 25	b) 30		
c) 35	d) 40		
18. What is the square root of 16?			
a) 2	b) 4		
c) 6	d) 8		
19. What is 12 / 4?			
a) 2	b) 3		
c) 4	d) 5		
20. What is 9 + 10?			
a) 18	b) 19		
 c) 20	d) 21		

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a) a

b) b

c) c

d) d

## **Diagram Questions**

## 22. What is the structure of a cell?





