### **Sample Admission Test Paper**

## **Mathematics Section**

### **Question:**

If x + y = 7 and xy = 12, find the value of  $x^2 + y^2$ .

#### **Answer Choices:**

- A) 25
- B) 37
- C) 49
- D) 61

Answer: B) 37

#### **Question:**

If a train travels at an average speed of 60 km/h, how long will it take to cover a distance of 360 km?

**Answer: 6 hours** 

#### Key:

To solve this problem, we can use the formula:

Time = Distance / Speed

Plugging in the given values: Time = 360 km / 60 km/h = 6 hours

- 1. Algebra: Solve for x: 2x + 5 = 13
  - a) 2
  - b) 3
  - c) 4
  - d) 5
- 2. Geometry: The area of a rectangle is 36 square units. If the length is 9 units, what is the width?
  - a) 3 units
  - b) 4 units
  - c) 5 units
  - d) 6 units
- 3. Data Analysis: The mean of the numbers 2, 5, 8, and 11 is:
  - a) 4
  - b) 6
  - c) 8
  - d) 10

4.	Fractions: What is the sum of 1/2 and 1/4?
	a) 1/6
	b) 2/6
	c) 3/4
	, ,
	d) 5/4
_	Damantagas, What is 200/ of 909
5.	Percentages: What is 20% of 80?
	a) 12
	b) 16
	c) 20
	d) 24
<i>(</i>	Datic and December 162 applies cost 62 how much would 12 applies cost?
υ.	Ratio and Proportion: If 3 apples cost \$2, how much would 12 apples cost?
	a) \$6
	b) \$8
	c) \$10
	d) \$12
7.	Basic Algebra: Simplify: $3x + 2x - x$
·•	a) 4x
	b) 5x
	c) 6x
	d) 7x
8.	Geometry: The perimeter of a square with side length 5 cm is:
	a) 10 cm
	b) 15 cm
	c) 20 cm
	d) 25 cm
9.	Word Problem: If a car travels at an average speed of 60 mph, how long will it take to travel 300 miles?
	a) 3 hours
	b) 4 hours
	c) 5 hours
	d) 6 hours
	a) o nouis

# **English Grammar:**

1. 13	Jo Chris?*
,	taller that taller
	as tall as
,	more tall
/	
2. Y	ou aren't allowed to use your mobile so*
a)	it's no point to leave it on
,	it's no point in leaving it on
	there's no point in leaving it on
d)	there's no point to leave it on
3. H	e told me that he in Spain the previous year.*
a)	has been working
	had been working
	has worked
d)	had been worked
4. I	come England*
	come England* From
a) b)	From At
a) b) c)	From At To
a) b) c)	From At
a) b) c) d)	From At To Beyond
a) b) c) d)	From At To
a) b) c) d)	From At To Beyond
a) b) c) d) 5. H a) b)	From At To Beyond  is office is on the second of the building.*  Floor Level
a) b) c) d)  5. H a) b) c)	From At To Beyond  Tis office is on the second of the building.*  Floor Level Ground
a) b) c) d)  5. H a) b) c)	From At To Beyond  is office is on the second of the building.*  Floor Level
a) b) c) d)  5. H a) b) c)	From At To Beyond  Tis office is on the second of the building.*  Floor Level Ground
a) b) c) d)  5. H a) b) c) d)	From At To Beyond  Tis office is on the second of the building.*  Floor Level Ground
a) b) c) d)  5. H a) b) c) d)	From At To Beyond  is office is on the second of the building.*  Floor Level Ground Stage  to school yesterday?*
a) b) c) d)  5. H a) b) c) d)  6 a)	From At To Beyond  is office is on the second of the building.*  Floor Level Ground Stage  to school yesterday?*  Do you walk
a) b) c) d)  5. H a) b) c) d)  6. — a) b)	From At To Beyond  is office is on the second of the building.*  Floor Level Ground Stage  to school yesterday?*

7. T	e doctor gave me a for some medicine yesterday.*				
b)	Note Receipt Prescription				
d)	recipe				
8. V	nen Simon back tonight, he'll cook dinner.*				
a)	Comes				
b)	will come				
,	come				
d)	shall come				
9. H	's interested learning Spanish*				
,	On				
b)					
c)					
a)	For				
10. "Why are you so hungry?" "Oh, I breakfast this morning."*					
a)	hadn't				
	didn't				
c)	didn't have				
d)	haven't				

### **Comprehension**

#### Read the passage and answer the question based on it.

If a person suddenly encounters any terrible danger, the change of nature one undergoes is equally great. Sometimes fear numbs our senses. Like animals, one stands still, powerless to move a step in fright or to lift a hand in defense of our lives, and sometimes one is seized with panic, and again, act more like the inferior animals than rational beings. On the other hand, frequently in cases of sudden extreme peril, which cannot be escaped by flight, and must be instantly faced, even the most timid men at once as if by miracle, become possessed of the necessary courage, sharp quick apprehension and swift decision. This is a miracle very common in nature. Man and the inferior animals alike, when confronted with almost certain death 'gather resolution from despair' but there can really be no trace of so debilitating a feeling in the person fighting, or prepared to fight for dear life. At such times the mind is clearer than it has ever been; the nerves are steel, there is nothing felt but a wonderful strength and daring. Looking back at certain perilous moments in my own life, I remember them with a kind of joy, not that there was any joyful excitement then, but because they broadened my horizon, lifted me for a time above myself.

#### 1. The title that best suits the passage would be:

- a. The Will to Fight
- b. The Miracle of Confronting Danger
- c. The Change of Nature
- d. Courage and Panic

#### 2. A man may react to sudden danger in three different ways. What are they?

- a. He may flee in panic, or fight back or stand still.
- b. He may be paralyzed with fear, seized with panic or act like an inferior animal.
- c. He may be paralyzed with fear, or seized with panic, or as if by miracle, become possessed of the necessary courage, and face the danger.
- d. He may be paralyzed with fear, run away or fight.

#### 3. What is the meaning of the word debilitating?

- a. enfeeble
- b. strengthen
- c. debase
- d. thriving

#### 4. Explain the phrase 'gather resolution from danger'.

- a. Find peace in times of difficulty.
- b. A state of utter hopelessness makes one determined to face the difficulty
- c. To remain calm and not to lose hope.
- d. To be enthusiastic and brave the odds.

#### 5. The author feels happy in the recollection of dangers faced and overcome because

- a. They brought him a new experience.
- b. They added a new perspective and lifted him above himself for a time.
- c. These experiences boosted his confidence.
- d. He felt elated as he was alive.

# **Vocabulary:**

1.	1. The prince abdicated the crown and returned to his castle. Abdicated means	
	a)	Gave up.
	b)	Sold.
	c)	Reinvested into.
	d)	Auctioned.
2.	Th	ne convicted criminal absconded prior to the sentencing phase of the trial. Absconded means
	a)	Touched the jury.
	b)	Reported immediately.
	c)	Left after discussion.
	d)	Departed secretly.
3. The aural component of balance is critical for postural control during ambulation. Aural related to the		
	a)	Eye.
	b)	Ear.
	c)	Nose.
	d)	Mouth.
4. The old man was benevolent with his fortune. Benevolent means		ne old man was benevolent with his fortune. Benevolent means
	a)	Secretive.
	b)	Stingy.
	c)	Kind.
	d)	Careful.
5. The extra dirt was a key buttress to the foundation. Buttress means		ne extra dirt was a key buttress to the foundation. Buttress means
	a)	Limiting factor.
	b)	Support.
	c)	Overwhelming condition.
	d)	Obstacle.

6. The		ne cathode of a battery was removed. Cathode means		
	a)	Positive pole.		
	b)	Negative pole.		
	c)	Neutral pole.		
	d)	Opposite pole.		
7.	7. The doctor was known as a charlatan over the years of his practice. Charlatan means			
	a)	Quack.		
	b)	Knowledgeable physician.		
	c)	Procedural physician.		
	d)	Medical examiner.		
8.	Th	e wound exhibited signs of copious drainage requiring medical intervention. Copious means		
	a)	Minimal.		
	b)	Clear.		
	c)	Maximal.		
	d)	Foul.		
9.	Th	e attorney accused the witness of defaming the defendant. Defaming means		
	a)	Killing.		
	b)	Badgering.		
	c)	Suffocating.		
	d)	Slandering.		
10.	. Th	e detective was able to derive the facts of the case. Derive means		
	a)	Desist.		
	b)	Deter.		
	c)	Devise.		
	d)	Deduce.		

# **Composition**

Describe someone who you will never forget and explain why.