**APTITUDE: PLACEMENT DRIVE**

**TOUGH/MODERATE**

1. The sum of the squares of two consecutive positive integers is 365. What are the integers?
2. A man invests $5000 in a savings account that earns 5% interest compounded annually. How much money will he have after 3 years?
3. If log₂(x + 3) - log₂(x - 1) = 2, find the value of x.
4. A train travels from Town A to Town B at a speed of 60 km/h and returns to Town A at a speed of 80 km/h. What is the average speed for the entire journey?
5. A bag contains 4 red balls, 5 blue balls, and 6 green balls. If a ball is drawn at random from the bag, what is the probability that it is neither red nor blue?
6. If the perimeter of a rectangle is 50 cm and the length is three times the width, find the area of the rectangle.
7. A circle is inscribed in a square. If the area of the square is 64 square units, what is the circumference of the circle?
8. Solve the following system of equations: 3y+4x=203*x*+4*y*=20  
   2x−5y=72*x*−5*y*=7
9. If 22^2x=32, what is the value of *x*?
10. A sum of money doubles itself in 8 years at simple interest. In how many years will it triple itself?

Choose the word that is most nearly opposite in meaning to the word in capitals:

EXUBERANT

a) restrained

b) sober

c) subdued

d) reserved

In the following sentence, identify the grammatical error:

"Each of the students are responsible for completing their assignments on time."

Select the sentence with the correct use of the semicolon:

a) "She was always late; even her friends noticed."

b) "He forgot his keys; when he got to the door."

c) "The cat ran across the street; the dog followed."

d) "I prefer tea; over coffee any day."

Choose the option that best completes the analogy:

Obfuscate: Clarify ::

1. Vex : Annoy (b) Explicate : Elucidate (c) Confuse : Confound (d) Puzzle :

Befuddle

Select the sentence with the correct use of the adjective:

a) "The weather outside is really nice."

b) "He did a good job on his project."

c) "She sings beautifully."

d) "I felt badly about what happened."

Identify the grammatical error in the following sentence:

"Their is a new restaurant opening downtown next week."

Choose the sentence that is punctuated correctly:

a) "She decided to go home because, she was tired."

b) "I can't believe it, she won the competition!"

c) "He said 'I will be there' and then he left."

d) "She asked, "What time is the meeting?"

Which word is spelled correctly?

a) Inoculate

b) Inocullate

c) Inocullate

d) Inoculatee

Select the sentence with the correct use of the apostrophe:

a) "The dogs' tails were wagging happily."

b) "The dog's tail was wagging happily."

c) "The dogs tails were wagging happily."

d) "The dog tails was wagging happily."

Choose the option that best completes the sentence:

"After taking all factors into consideration, \_\_\_\_\_\_\_\_\_\_."

a) it's clear that this is the best course of action.

b) the solution presents itself.

c) the optimal decision becomes apparent.

d) we can conclude that this is the best choice.