TCS Placement Practice Set - Aptitude, Reasoning, Verbal & Coding

Section 1: Quantitative Aptitude

1. A man can complete a job in 10 days. His friend can do the same job in 15 days. How long will it take if they work together?

   A) 6 days   B) 8 days   C) 9 days   D) 12 days

   Solution: (1/10 + 1/15) = 1/x -> x = 6 days. Answer: A

2. A product is sold at 20% profit. If the cost price is Rs. 200, what is the selling price?

   Solution: 200 + (20% of 200) = 240. Answer: Rs. 240

3. A train 120 m long runs at 60 km/hr. How much time does it take to pass a pole?

   Solution: (120/60,000) * 3600 = 7.2 sec. Answer: 7.2 seconds

Section 2: Logical Reasoning

1. What comes next in the series: 2, 6, 12, 20, ?

   Solution: Pattern is $n^2 + n$ -> Next is $6^2 + 6 = 42$. Answer: 42

2. A is the brother of B. B is the sister of C. C is the father of D. How is A related to D?

   Solution: A is D's uncle.

3. If in a code, ROAD is written as URDG, how is FAST written?

   Solution: Add +3 to each letter -> FAST = IDVW

Section 3: Verbal Ability

1. Spot the error: He don't know the answer.

   Correction: He doesn't know the answer.

2. Choose the synonym for "Benevolent":

A) Kind   B) Brave   C) Cruel   D) Arrogant

Answer: A) Kind

3. Rearrange: "always / to / punctual / try / be"

Correct sentence: Always try to be punctual.

Section 4: Coding Questions (Python)

1. Write a program to print a pyramid of stars in Python.

```
for i in range(1, 6):
    print(" "*(5-i) + "*"*(2*i-1))
```

2. Check if a number is prime (Python):

```
def is_prime(n):
    if n <= 1:
        return False
    for i in range(2, int(n**0.5)+1):
        if n % i == 0:
            return False
    return True
```