# Question Paper: Maths

Total Marks: 30

Time: 3 Hours

Instructions:

1. Attempt all questions

2. Read each question carefully before answering

**1.** .If f(x) = x² + 3x - 4, find f(2) and f(-1). *[5 Marks]*

**2.**  Define an irrational number with an example. *[5 Marks]*

**3.** .Solve: 5! (5 factorial). *[5 Marks]*

**4.** .Create a proof to show that an even number is always divisible by 2. *[5 Marks]*

**5.** .Solve for x in 3x² - 5x + 2 = 0 using the quadratic formula. *[5 Marks]*

**6.** .A shop offers a 20% discount on a ₹500 item. Find the final price. *[5 Marks]*