

Roll No : _____

Name : _____

**Saintgits College Of Engineering, Kottayam (Autonomous) Kottukulam Hills, Pathamuttam
P.O Kottayam-686 532**

SECOND SEMESTER INTEGRATED MCA INTERNAL TEST-I, FEBRUARY 2023

Course Code: 20IMCAT201

Course Name: General Knowledge

Duration: 2 Hours

Marks: 50

PART A

1. Name the largest planet in the Solar System. [2 marks]
2. What is the value of 5×5 ? [2 marks]
3. Main Question: [2 marks]
 - a) Solve $3x + 5 = 20$.
 - b) Find the value of x .
4. Main Question: [2 marks]
 - a) Define inertia.
 - b) Explain its significance in physics.
5. What is the freezing point of water? [2 marks]
6. Main Question: [2 marks]
 - a) Solve $2x - 10 = 0$.
 - b) Find the value of x .
7. Main Question: [2 marks]
 - a) Derive the formula for acceleration.
 - b) Explain its units.

PART B

8. What is the chemical formula for water? [3 marks]
9. Convert 100 cm to meters. [3 marks]
10. What is the capital city of Germany? [3 marks]
11. How does gravity affect tides? [3 marks]

12. Who is known as the "Father of Computer Science"? [3 marks]
13. Explain the principle of reflection of light. [3 marks]
14. Explain the working of a solar panel. [3 marks]
15. Main Question: [3 marks]
- a) Discuss the significance of climate change.
 - b) Suggest two solutions to mitigate its impact.

PART C

16. Who wrote the book "Harry Potter"? [6 marks]

OR

17. Explain the process of photosynthesis. [6 marks]
18. Name two elements present in the air we breathe. [6 marks]

OR

19. Main Question: [6 marks]
- a) Differentiate between prokaryotic and eukaryotic cells.
 - b) Why is this classification important?