

THE BSS SCHOOL
Class – IX
Subject – Robotics and AI (6th Subject)

Unit Test

Unit 1 : Introduction to Robotics - Understanding Robots, Evolution, Classification, Applications

Half Yearly Examination

Unit 2 : Robot as a System - Building blocks of robot, Robot algorithm

Unit 3 : Concepts in robotics - Robot anatomy, types of Motion, Links and joints

Unit 4 : Introduction to AI - Meaning and brief history

Unit 5 : Role of Data and Information - Data and Information, Evolution of Computing

Unit 6 : Introduction to Programming with Python –

Features, application areas, Interactive mode, script mode

Data types and variables, Structure of Python program, Operators, expressions, simple programs

Final Examination

Unit 4 : Application and benefits of AI, Ethical considerations in AI

Unit 6 : String data type in Python - strings, list, tuple, string functions, conditional statements, control statements, loops, jump statements, functions, built-in functions, user defined functions. Sample programs.

Unit 7 : AI Concepts and AI Project framework - Machine learning, Expert systems, AI domains (Computer vision, NLP, Neural network), AI project life cycle

Full Python