B.K. BIRLA CENTRE FOR EDUCATION
SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

TERM 1 EXAMINATION (2025-26)
ARTIFICIAL INTELLIGENCE

Class: VI   **Time : 2 hrs.**
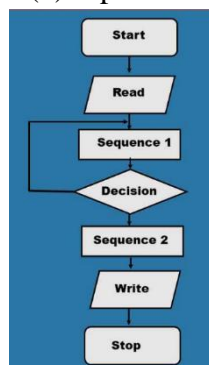**Date: 03-09-2025**   **Max Marks: 50**
Admission No. ……………………   **Roll No. :………..**

I. Multiple Choice Questions : (Answer any twelve)   **(12 X 1 = 12)**

(1) The place where programs and executable instructions are stored is called
    (a) Memory   (b) Software   (c) Control Unit   (d) ALU

(2) ……………… is a small, compact, portable device to store large amounts of data.
    (a) CDs   (b) Blu-ray disc   (c) Pen drive   (d) Hard disk

(3) Which of the following is an input device ?
    (a) Scanner   (b) Printer   (c) Speakers   (d) Plotter

(4) Monitor is also known as the ……………………………
    (a) Visual Display Unit   (b) Virtual Display Unit
    (c) Video Data Unit   (d) Virtual Data Unit

(5) ……………….. consists of the physical parts of a computer device.
    (a) Software   (b) Hardware   (c) Instruction   (d) None of the above

(6) A flowchart needs to represent the situation where for each mark a student is awarded "Pass" or "Fail".... the system will consider the mark and if it's 50 or over award "Pass", else it awards "Fail". This is an example of which of the algorithm construct ?
    (a) Decision   (b) Loop   (c) Sequence   (d) All of these

(7) In a flowchart how are symbols connected ?
    (a) Symbols do not get connected together in a flowchart
    (b) With lines and an arrow to show the direction of flow
    (c) With dashed lines and numbers
    (d) With solid lines to link events

(8) Which of the following is a pictorial representation of an algorithm ?
    (a) Pseudocode   (b) Program   (c) Flowchart   (d) Algorithm

(9) Kite/Diamond shaped box in a flowchart is used for :
    (a) Decision   (b) Input   (c) Output   (d) Process

(10)

    (a) This is a flowchart   (b) This is an algorithm
    (c) This is a pseudocode   (d) This is a decision chart

(11) Due to which of these abilities has human beings emerged as the dominant species on earth ?
     (a) great strength   (b) great speed   (c) great size   (d) high intelligence

(12) Which of the following is not related to intelligence ?
     (a) It lets us to solve problems, understand concepts and act purposefully
     (b) It allows us to imagine and use our experience in life to solve problems
     (c) It allows us to be creative and create objects and concepts of beauty and originallity
     (d) It helps us to act violently and wage Wars

(13) Which of the following activities involves the use of AI Technology ?
     (a) sorting of emails into folders based on content
     (b) booting up the computer
     (c) adding up numbers using a calculator
     (d) changing coloured photographs into black and white

(14) Which of the following is not true about AI ?
     (a) the use of AI allows business owners to earn more money
     (b) AI can replace humans in clerical are repetitive tasks
     (c) John McCarthy coined the term Artificial Intelligence
     (d) Development of AI systems have started only in last 10 years

(15) Which of the following is not a sign of Intelligence ?
     (a) solve problems   (b) creating a poem   (c) writing an original story   (d) Taking bath

II. Fill in the blanks : (Answer any eight)   (8 X 1 = 8)

(Sophia,   Amazon Go,   Netflix,   Chatbot,   Shakey,
  John McCarthy,   Smart speaker,   Tag that photo,   Intelligence, Siri)

(1) A robot called ………………… is known as the first robot citizen.

(2) ……………… was known as the first electronic person.

(3) ……………….. uses a natural language user interface to infer, observe, answer and recommend things to its human user on iOS.

(4) ……………… is the world's most popular subscription-based video streaming offered worldwide.

(5) …………………… wizard can help you to organize your photos so you can reconnect with cherished memories quickly.

(6) Just Walk Out Shopping experience is available at …………………… stores.

(7) ………………………….. listen to sound waves and convert them into words using automatic speech recognition (ASR) using a set of complex artificial intelligence (AI) technologies.

(8) A …………………… is a software application used to conduct an online chat conversation via text or text-to-speech, in lieu of providing direct contact with a live human agent.

(9) ………………….. allows us to imagine and use our experience in life to solve problems.

(10) ………………………… is known as the father of AI.

III. State True/False : (Answer any 4)   (4 X 1 = 4)

(1) The Central processing Unit (CPU) is the brain of the computer.

(2) When you write an algorithm the order of the instructions is very important.

(3) Driverless cars are the next big thing in the automobile space.

(4) Deep Blue, a chess playing computer was developed by Microsoft.

(5) Roomba is an autonomous robot vacuum cleaner that cleans while avoiding obstacles.

IV. Short Answer Type Questions: (Answer any seven)   **(7 X 2 = 14)**

(1) Explain the IPO cycle. Draw diagram also.
(2) Draw block diagram of a computer system. Explain each part of it.
(3) Explain an algorithm using an example.
(4) Draw a flowchart to find the sum of two numbers.
(5) Give any four examples of display of Intelligence in the animal world i.e. apart from humans.
(6) Define : (a) Human Intelligence   (b) Artificial Intelligence
(7) Define AI Winter.
(8) Define : (a) Alexa   (b) Apple's Siri
(9) Define : (a) Chatbot   (b) Smart Speakers

V. Long Answer Type Questions : (Answer any four)   **(4 X 3 = 12)**
(1) Write the use of the following devices :
  (a) Webcam   (b) Microphone   (c) Digital camera
(2) Differentiate between an Algorithm and Flowchart.
(3) Write and explain any three features of Intelligence.
(4) Describe the following : (a) Google Home   (b) Sophia   (c) Cortana
(5) Explain the technology used in Driverless cars.
(6) Explain the use of AI in following fields :
  (a) Web Search   (b) Music and video recommendations

********** ALL THE BEST ************