



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

ANNUAL EXAMINATION 2025-26 ARTIFICIAL INTELLIGENCE (SET 02)

Class: VII

Date: 12-03-2026

Name:

Duration: 2 hrs.

Max Marks: 50

Exam No. :

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of 19 questions in two sections: Section A & Section B.
3. Section A has Objective type questions (MCQ, Fill in the blanks) whereas Section B contains Subjective type questions.
4. All questions of a particular section must be attempted in the correct order.
5. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 03 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
6. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section has 16 questions.
 - ii. A candidate has to do 11 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

MARKING SCHEME

SECTION A: OBJECTIVE TYPE QUESTIONS

I. Multiple Choice Questions: (Answer any sixteen)

(16 X 1 = 16)

- (1) Which type of intelligence is related to the ability to think spatially and visualize objects ?
 - (a) Linguistic intelligence
 - (b) Logical mathematical intelligence
 - (c) Musical intelligence
 - (d) **Spatial intelligence**
- (2) Which type of intelligence is related to the ability to understand and interact with the natural world ?
 - (a) Linguistic intelligence
 - (b) Logical mathematical intelligence
 - (c) Musical intelligence
 - (d) **Naturalistic intelligence**
- (3) Which type of intelligence is related to the ability to understand and interact with others ?
 - (a) Linguistic intelligence
 - (b) Logical mathematical intelligence
 - (c) Musical intelligence
 - (d) **Interpersonal intelligence**
- (4)is a railless guided bus system for urban passenger transport.
 - (a) Autonomous Rail Remote Transit
 - (b) Autonomous Rail Rapid Transport

(c) **Autonomous Rail Rapid Transit**

(d) Automatic Rail Rapid Transit

- (5) is a robot server created by Bear Robotics that can assist human servers, using sensors to navigate crowded restaurants.
(a) WASP (b) **Penny** (c) Sophia (d) Vayumitra
- (6) The helps you to select areas of the current layer or image based on colour similarity.
(a) Ellipse select tool (b) Rectangle tool
(c) **Fuzzy select tool** (d) Free selection tool
- (7) By which out of the following ways can you save aa file in GIMP ?
(a) Go to File > Save (b) Press Ctrl + S
(c) Click on the “Save” icon in the toolbar (d) **All of these**
- (8) What is the effect of the tag ?
(a) **Makes the text bold** (b) Makes the text italic
(c) Makes the text underlined (d) None of these
- (9) What is meant by an empty tag in HTML ?
(a) A tag that doesn't have any content (b) **A tag that is missing a closing tag**
(c) A tag that is not valid (d) None of these
- (10) What does HTML stand for ?
(a) **Hyper Text Markup Language** (b) Hyper Text Media Language
(c) Hyper Text Modeling Language (d) Hyper Text Markup Link
- (11) Which HTML tag is used to create a list item ?
(a) (b) (c) <dl> (d) ****
- (12) Which HTML attribute is used to specify the URL of the image file in the tag ?
(a) **src** (b) href (c) alt (d) title
- (13) Which of the following is not a valid image format for the tag ?
(a) JPEG (.jpg, .jpeg) (b) PNG (.png)
(c) GIF (.gif) (d) **TXT (.txt)**
- (14) When scammers are able to use a registered mobile number to illegally obtain a new SIM card through the mobile service provider, it is known as
(a) Credit card fraud (b) Spamming (c) **SIM Swap Scam** (d) None of these
- (15) What are the symptoms of a computer virus infection ?
(a) Slow performance, frequent crashes and error messages
(b) Pop-ups, unwanted advertisements and changes to the computer's settings
(c) Loss of personal information, financial fraud and identity theft
(d) **All of the above**
- (16) Which kind of viruses have had the names of Wazzo and W97M ?
(a) Worms (b) Spams (c) Spyware (d) **Macro virus**
- (17) What button do you press in Python to compile (run) your program so that it runs in the shell ?
(a) F3 (b) **F5** (c) F7 (d) F9
- (18) is the extension of a Python program.
(a) .pyx (b) **.py** (c) .pt (d) .pyt
- (19) What is a variable ?
(a) **A box (memory location) where you store values**
(b) A type of graphics
(c) Data type
(d) A type of memory
- (20) Numbers with a decimal point belong to a type called

(a) Pointing

(b) Integers

(c) Decimal

(d) Float

II. Fill in the blanks : (Answer any 6)

(6 X 1 = 6)

- (1) Linguistic
- (2) John Mccarthy
- (3) Intelligence
- (4) Broadcast Audience Research Council
- (5) Deep Learning
- (6) Presentation Translator
- (7) Virtual Reality
- (8) Google Daydream

III. Write down the expansions of the following :

(4 X 0.5 = 2)

- (a) PNG = Portable Network Graphics
- (b) TIFF = Tagged Image File Format
- (c) JPEG = Joint Photographic Experts Group.
- (d) BMP = Bitmap

SECTION B: SUBJECTIVE TYPE QUESTIONS

IV. Short Answer Type Questions: (Answer any seven)

(7 X 2 = 14)

(1) Write two definitions of Artificial Intelligence.

Ans. :

Artificial Intelligence (AI) is a branch of computer science that focuses on creating machines capable of performing tasks that normally require human intelligence, such as learning, reasoning, problem-solving, and decision-making.

AI can also be defined as the ability of a computer system to simulate human intelligence by analyzing data, recognizing patterns, and improving its performance through experience without being explicitly programmed.

(2) Discuss the use of artificial intelligence in the field of : (a) Sports (b) Entertainment

Ans. :

(a) *Sports*

Artificial Intelligence is widely used in sports for performance analysis, player fitness tracking, and injury prediction. AI systems analyze match data, player movements, and statistics to help coaches make better strategies and improve team performance.

(b) *Entertainment*

In the entertainment industry, AI is used for movie and music recommendations, animation, video games, and content creation. Streaming platforms use AI algorithms to suggest personalized content based on user preferences and viewing history.

(3) Describe the following elements of the GIMP interface.

- (a) Status bar (b) Canvas

Ans. :

(a) *Status Bar*

The status bar in GIMP is located at the bottom of the window and displays useful information about the current image, such as image size, zoom level, tool hints, and the progress of ongoing tasks.

(b) *Canvas*

The canvas is the main working area in GIMP where the image is displayed. All editing activities such as drawing, painting, cropping, and applying effects are performed on the canvas.

(4) Write down the basic structure of an HTML document.

Ans. :

The basic structure of an HTML document includes

<!DOCTYPE html>,

<html>,

<head>, and <body> tags.

The <head> section contains metadata, title, and links, while the <body> section contains the visible content of the webpage.

(5) Mention the attributes used in the and tags.

Ans. :

The (unordered list) tag uses the type attribute to define bullet styles such as disc, circle, or square. The (ordered list) tag uses attributes like type, start, and reversed to control numbering style.

(6) How is a hacker different from a cracker ?

Ans. :

A hacker is a skilled computer professional who uses technical knowledge to identify security weaknesses and improve system safety, often with ethical intentions. A cracker, on the other hand, illegally breaks into systems to steal data, spread malware, or cause damage.

(7) Write two differences between Augmented Reality and Virtual Reality.

Ans. :

Augmented Reality (AR) adds digital objects to the real-world environment, allowing users to interact with both real and virtual elements simultaneously. Virtual Reality (VR) creates a completely simulated environment that replaces the real world and requires special headsets


```
<h2>School Activities</h2>
<ul>
  <li>Sports Day</li>
  <li>Annual Function</li>
  <li>Science Exhibition</li>
  <li>Cultural Programs</li>
</ul>
</body>
</html>
```

This program creates a simple school homepage with a title and a list of school activities

(3) Differentiate between Viruses, Worms and Trojan horses.

Ans. :

A **virus** is a malicious program that attaches itself to files and spreads when the infected file is executed. A **worm** is a self-replicating program that spreads through networks without user action. A **Trojan horse** appears to be a useful program but secretly performs harmful activities, such as stealing data or damaging the system.

(4) Write and explain any three applications of Python.

Ans. :

Python is widely used in many fields due to its simplicity and versatility.

First, Python is used in **web development** to create dynamic websites using frameworks like Django and Flask.

Second, it is used in **data analysis and data science** for handling large datasets and visualization.

Third, Python is popular in **artificial intelligence and machine learning** for building intelligent systems and predictive models.

(5) Write a program in Python to input two numbers and display their sum and product.

Ans. :

```
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
```

```
sum = num1 + num2
product = num1 * num2
```

```
print("Sum =", sum)
print("Product =", product)
```

This program takes two numbers as input from the user, calculates their sum and product, and displays the results on the screen.

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