



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 01)

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 understand and use language ?
 - (a) **Linguistic intelligence**
 - (b) Logical mathematical intelligence
 - (c) Musical intelligence
 - (d) Bodily kinesthetic intelligence
- (2) Which type of intelligence is related to the ability to understand and create music ?
 - (a) Linguistic intelligence
 - (b) Logical mathematical intelligence
 - (c) **Musical intelligence**
 - (d) Bodily kinesthetic intelligence
- (3) Which type of intelligence is related to the ability to understand oneself and one's own emotions?
 - (a) Linguistic intelligence
 - (b) Logical mathematical intelligence
 - (c) Musical intelligence
 - (d) **Intrapersonal intelligence**
- (4)is a free PowerPoint plug-in that develops subtitles in real time of what the teacher is

saying.

- (a) Open office Translator (b) Microsoft Translator
(c) **Presentation Translator** (d) Powerpoint Translator
- (5) Which one of the following is an artificial intelligence software, a robot writer?
(a) JACK (b) **WASP** (c) Sophia (d) Penny
- (6) What is GIMP ?
(a) **A free and open source raster graphics editor**
(b) A proprietary vector graphics editor
(c) A commercial photo editing software
(d) A cloud based image editing software
- (7) The, lets you select a drawing free hand with the pointer, while holding down the left mouse button.
(a) Ellipse select tool (b) Rectangle tool
(c) Fuzzy select tool (d) **Free selection tool**
- (8) How many sizes of headers are available in HTML by default ?
(a) **6** (b) 7 (c) 8 (d) 9
- (9) HTML files are saved by default with the extension ?
(a) .html (b) .htm (c) **Both are correct** (d) None of these
- (10) We enclose HTML tags within ?
(a) **Angle brackets (< >)** (b) Square brackets ([])
(c) Curly braces ({ }) (d) None of the above
- (11) Which tag is used to create an image in HTML ?
(a) **** (b) <src> (c) <picture> (d) <video>
- (12) How to create an ordered list in HTML ?
(a) **Use the and tags** (b) Use the and tags
(c) Use the tag only (d) Use all of the above
- (13) Which attribute is used to specify the alternate text for an image in HTML ?
(a) **<alt>** (b) <title> (c) <desc> (d) <summary>
- (14) is the practice of receiving unwanted commercial messages by email, SMS, MMS or any other similar electronic messaging platform.
(a) **Spamming** (b) Pharming (c) Vishing (d) Cryptojacking
- (15) How do computer viruses spread ?
(a) Through email attachments (b) Through infected websites
(c) Through infected USB drives and other removable media
(d) **All of the above**
- (16) 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**
- (17) What is the name of the environment in Python that write your programs and then tests them out ?
(a) Shell (b) Window (c) **IDLE** (d) CLI
- (18) is the extension of a Python program.
(a) .pyx (b) **.py** (c) .pt (d) .pyt
- (19) What is the word (command) used to display numbers and text on the screen ?
(a) **Print** (b) Input (c) Output (d) Command
- (20) What symbol is used in Python to assign values to a variable ?

(a) equals = (b) plus + (c) forward slash / (d) asterisk *

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

(6 X 1 = 6)

- (1) Emotions
- (2) John Mccarthy
- (3) Kinesthetic
- (4) Autinimous Rail Rapid Transit
- (5) Penny
- (6) Tellspec
- (7) Augmented Reality
- (8) Google Earth

III. Write down the expansions of the following :

(4 X 0.5 = 2)

- (a) JPEG = Joint Photographic Experts Group
- (b) GIF = Graphica Interchange Format
- (c) PSD = Photoshop Document
- (d) PNG = Portable Network Graphics

SECTION B: SUBJECTIVE TYPE QUESTIONS

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

(7 X 2 = 14)

(1) Define Artificial Intelligence and Turing Test.

Ans. :

Artificial Intelligence is a branch of computer science that enables machines to perform tasks requiring human intelligence, such as learning and reasoning. The Turing Test, proposed by Alan Turing, evaluates a machine's ability to exhibit intelligent behavior indistinguishable from a human.

(2) Discuss the use of artificial intelligence in the field of : (a) Transport (b) Education

Ans. :

- (a) **Transport:** AI is used in self-driving vehicles, traffic management systems, route optimization, and accident prediction to improve safety and efficiency.
- (b) **Education:** AI helps in personalized learning, intelligent tutoring systems, automated grading, and virtual classrooms to enhance student learning experiences.

(3) What is image editing ? List any two image editing software available.

Ans. :

Image editing is the process of modifying or enhancing digital images by adjusting colors, size, brightness, or adding effects. Two popular image editing software are **GIMP** and **Adobe Photoshop**.

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

Ans. :

An HTML document consists of
<!DOCTYPE html>,
<html>, <head>, and <body> tags.

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

(5) What is the tag used for ? Explain with example.

Ans. :

The tag is used to display images on a webpage. It uses attributes like src to specify the image file and alt for alternate text.

Example:

(6) While working on the computer you notice that the System is working very slowly, files are corrupted default home page on the web browser has changed, lot of memory is consumed, and unnecessary pop-ups are coming. What can be the probable reason?

Ans. :

The probable reason for slow system performance, corrupted files, changed browser settings, excessive memory usage, and pop-ups is a **virus or malware infection**. Such malicious programs damage files, consume system resources, and affect normal computer functioning.

(7) Define Virtual Reality.

Ans. :

Virtual Reality is a computer-generated simulation that creates an artificial environment in which users can interact using special devices such as headsets and sensors. It provides an immersive experience by replacing the real world with a virtual one.

(8) What is the difference between interactive mode and script mode in Python ?

Ans. :

In interactive mode, Python executes commands one at a time and shows immediate results. In script mode, Python programs are written in a file and executed together, making it suitable for larger and more complex programs.

(9) “Comments are useful and an easy way to enhance readability and understandability of a program”. Elaborate with example.

Ans. :

Comments are used to explain code, making programs easier to read and understand. They help programmers remember logic and assist others in understanding the code.

Example:

```
# This program adds two numbers
```

(10) What is a variable in Python ? Give two rules to follow when creating a variable.

Ans. :

A variable in Python is a name that stores a value in memory. Rules: variable names must start with a letter or underscore, and they must not be Python keywords or contain spaces or special characters.

V. Long Answer Type Questions : (Answer any four)

(4 X 3 = 12)

(1) Write three advantages and disadvantages each of Artificial Intelligence.

Ans. :

Artificial Intelligence has many advantages. It reduces human error, works continuously without fatigue, and can analyze large amounts of data quickly. AI improves efficiency and decision-making in many fields. However, AI also has disadvantages. It is expensive to develop and maintain, lacks human creativity and emotions, and may cause job loss by replacing human workers in certain industries.

(2) Write difference between :

(a) `
` and `<hr>` tags

(b) Container tag and Empty tag

Ans. :

(a) *`
` and `<hr>` tags*

The `
` tag is used to insert a line break within text and does not draw any visible line. The `<hr>` tag is used to insert a horizontal line across the webpage to separate content sections. Both are empty tags but serve different formatting purposes.

(b) *Container tag and Empty tag*

A container tag has both opening and closing tags and encloses content, such as `<p></p>`. An empty tag does not have a closing tag and does not contain content, such as `
` and ``

(3) Write a program in HTML to create an ordered list of the names of the subjects you study in school.

Ans. :

```
<!DOCTYPE html>
<html>
<head>
  <title>Subjects List</title>
</head>
<body>
  <h2>Subjects I Study in School</h2>
  <ol>
    <li>English</li>
    <li>Mathematics</li>
    <li>Science</li>
    <li>Social Studies</li>
    <li>Computer Science</li>
  </ol>
</body>
</html>
```

This program uses the `` tag to display an ordered list of school subjects

(4) You have very important data on your computer. How will you ensure that this data remains safe? Explain any three points.

Ans. :

To keep important data safe, first, I will regularly create backups on external drives or cloud storage. Second, I will install updated antivirus software to protect against viruses and malware.

Third, I will use strong passwords and avoid opening unknown emails or downloading files from untrusted sources to prevent data loss or theft.

(5) Write any three features of Python.

Ans. :

Python is a high-level programming language that is easy to learn and use. It has a simple and readable syntax that reduces programming complexity. Python is platform-independent, meaning programs can run on different operating systems. It also supports multiple programming paradigms, such as procedural, object-oriented, and functional programming

(6) Write a program in Python to calculate simple interest by inputting the value of Principal amount and rate from the user for a time period of 2 years.

Ans. :

```
principal = float(input("Enter the principal amount: "))
rate = float(input("Enter the rate of interest: "))
```

```
time = 2 # time period in years
```

```
simple_interest = (principal * rate * time) / 100
```

```
print("Simple Interest =", simple_interest)
```

This program takes the principal amount and rate of interest from the user and calculates simple interest for a period of two years.

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