O. P. JINDAL SCHOOL, SAVITRI NAGAR
Half Yearly Examination (2026–2027)

Class: VIII **MM: 50**
Subject: Artificial Intelligence(AI) **Time: 2Hrs.**

General Instructions: *All questions are compulsory.*

SECTION–A

Q1. Tick out the correct option: **(10x01 =10 Marks)**

i) Which of these connects wireless communication devices to form a wireless network?
a) WAN b) Wi-Fi
b) W A P d) MAN

ii) Which network topology among the following requires a single communication line or one main cable?
a) Bus b) Star c) Tree d) Mesh

iii) Which of the following view displays the tables as a grid?
a) Database b) Datasheet c) Design d) Sheet

iv) How many primary keys are allowed in a table of a database?
a) 2 b) 1 c) 10 d) Multiple

v) The Program File Virus infects the _____files.
a) Executable b) Graphics
b) Audio d) Video

vi) _____released the first PC virus.
a) Duke Brothers b) Wright Brothers
c) Farooq Alvi Brothers d) Elon Musk

vii) Synfig Studio was developed by
a) Robert Quattlebaum b) Adrian Bentley
c) James Taylor d) Robert Jones

viii) Which one of the following is a type of layer?
a) Gradient b) Timebar
c) Animate Edit Mode d) Palette

ix) Who suggests the ways in which a company can implement AI
a) Strategy Consultant b) Software Analyst
c) Software Developer d) None of these

x) Who is responsible for developing software programs

a) Strategy Consultant
b) Software Analyst
c) Software Developer
d) None of these

SECTION–B

Q2. Fill in the blanks: **(10x01=10 Marks)**

Hint: [Primary Key, Macro, Composite, Gradient, Speed, Program File, Table, 255, PAN, Nodes]

i. _____is a computer network created for an individual person.
ii. The computers that communicate with each other are called _____.
iii. A _____is a collection of data elements organized in terms of rows and columns.
iv. The length of the text field can have a maximum number of _____characters.
v. Computer virus results in the loss of _____and destruction of data.
vi. A multipartite virus is a hybrid of a boot sector and _____virus.
vii. _____is the default setting for blend method.
viii. _____is a type of layers which can be selected from the layer menu.
ix. The _____virus are created using applications such as Word, Excel etc.
x. A field or combination of fields that uniquely identify each record in a table is known as _____.

SECTION–C

Q3. Check whether the following statements are True or False: **(10x01 =10Marks)**

i. The early prediction of earthquakes helps us in taking precautions.
ii. Chat bots guide us in taking the right step for completing the tasks.
iii. There are 13 categories of filters present in GIMP.
iv. Onion skin lets you to create and work with multiple layers.
v. Trojan Horses are self replicating.
vi. Spyware is a type of virus that pretends to be an Antivirus.
vii. Text fields contain numbers only.
viii. A table has three primary keys.
ix. Nodes and Servers have the same function.
x. In the client-server network, there is no central server.

SECTION–D

Q4. Short answer type questions: **(05x02=10 Marks)**

i) Distinguish between LAN and WAN.
ii) What is a primary key in database?
iii) What is Boot Sector Virus?
iv) What do you mean by Onion skin?

v) What will be the job role of a chatbot designer?

SECTION–E

Q5. Answer the following questions: (Any Two) (02x05=10Marks)

i. What are Network Topologies? Briefly explain any two types of topologies.

ii. What is a computer virus? Write any three possible symptoms of virus in a computer.

iii. What do you understand by DBMS? Write three advantages of DBMS.

*****