

Name: \_\_\_\_\_

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## NETWORKING CONCEPTS

### A. Fill in the blanks.

- NIC stands for .....
- Network devices like ....., ..... and are required for performing the function of joining smaller networks to create a larger network.
- Based on the area covered by any network, computer networks are classified into ....., ..... and .....
- The most important example of WAN is .....
- A ..... network is limited to a town or a city.

### B. Differentiate between.

- LAN and WAN

.....  
.....

- Wi-Fi and Bluetooth

.....  
.....

### C. List all the application of networking in our day-to-day life.

.....  
.....  
.....

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## NETWORKING CONCEPTS

### A. Write T for true and F for false.

1. A network among metropolitan cities of a country is called MAN. ....
2. Communication and sharing of resources is the major advantage of networking. ....
3. Sharing of software is not possible through network. ....
4. Wireless communication is possible between networked computers and peripherals. ....
5. School lab is a perfect example of WAN. ....
6. WAN connects smaller networks to create a larger network. ....
7. LAN covers more area as compared to WAN. ....
8. Internet is an example of WAN. ....

### B. Answer the following questions.

1. Explain the basic requirements for setting up a computer network.  
.....  
.....
2. What is Intranet?  
.....  
.....

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## DYNAMIC WEB PAGES IN HTML5

### A. Fill in the blanks.

1. JavaScript is a ..... scripting language used for enhancing users' interaction with the web page.
2. When JavaScript code is written within the HTML web page then it is called ..... JavaScript.
3. The variables or values on which the operator performs calculation are called .....
4. JavaScript allows us to take input from the user with the help of ..... method.
5. JavaScript code can be written in a file and saved with the ..... extension.

### B. Answer the following questions.

1. List any four important features of JavaScript.

.....

.....

.....

.....

2. Why JavaScript needs to be embedded within HTML code.

.....

.....

.....

.....

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## DYNAMIC WEB PAGES IN HTML5

### A. Write T for true and F for false.

- JavaScript is not a case sensitive and interpreted language. ....
- The SRC attribute of the <script> tag allows to give path of the JavaScript file. ....
- Commands and instructions given to the JavaScript interpreter to take some actions are called statements. ....
- Variables stores a value that cannot be modified later. ....
- We can start a variable name with digit 0-9. ....

### B. Answer the following questions.

- Why is JavaScript called a client side scripting language?  
.....  
.....
- How can we create a web page with internal JavaScript?  
.....  
.....
- Write naming conventions that needs to be followed while declaring a variable.  
.....  
.....

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## LATEST IT TRENDS

### A. Tick (✓) the correct option.

- ..... refers to the online buying and selling of products using the Internet.
 

a. E-commerce	<input type="checkbox"/>	b. Surfing	<input type="checkbox"/>
c. Electronic Fund Transfer	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Amazon .com is an example of .....
 

a. B2B	<input type="checkbox"/>	b. B2C	<input type="checkbox"/>
c. C2C	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Online payment can be done via
 

a. Credit Card	<input type="checkbox"/>	b. Cash	<input type="checkbox"/>
c. ATM Card	<input type="checkbox"/>	d. All of the above	<input type="checkbox"/>
- Internet Banking includes .....
 

a. Cash Management	<input type="checkbox"/>	b. Fund Transfer	<input type="checkbox"/>
c. Financial advice	<input type="checkbox"/>	d. All of the above	<input type="checkbox"/>
- Once e-tickets are booked and confirmed, they are sent to us via .....
 

a. e-mail and SMS	<input type="checkbox"/>	b. URL	<input type="checkbox"/>
c. Phone call	<input type="checkbox"/>	d. Broadcast	<input type="checkbox"/>

### B. Answer the following questions.

- Write down the features of E-commerce.  
.....
- What is the first thing that comes to your mind when you hear the word shopping?  
.....

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## LATEST IT TRENDS

### A. Fill in the blanks.

1. For buying and selling online, we need .....
2. While shopping online, we have to be very careful about cyber .....
3. E-banking is also known as ....., ....., and .....
4. .... refers to the online buying and selling of products using handheld devices like mobile phones and tablets.
5. Online sites are available to sell and purchase ..... on all days of the week.

### B. Define the following terms.

1. E-commerce: .....
2. E-shopping: .....
3. E-ticketing: .....
4. E-banking: .....

### C. Explain the threats in e-banking. How can we do Net banking safely?

.....

.....

.....

.....

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## CLOUD COMPUTING

### A. Fill in the blanks.

1. \_\_\_\_\_ is a technology that provides resources and services over the Internet.
2. \_\_\_\_\_ is free online storage that provides access to email, contacts and much more.
3. Google Drive gives you \_\_\_\_\_ GB of free online storage.
4. Cloud computing can be divided into two sections– \_\_\_\_\_ and the \_\_\_\_\_.
5. A \_\_\_\_\_ cloud includes services offered to a group of organisations and communities that share common interests

### B. Define the following terms.

1. IaaS: \_\_\_\_\_  
\_\_\_\_\_
2. SaaS: \_\_\_\_\_  
\_\_\_\_\_
3. PaaS: \_\_\_\_\_  
\_\_\_\_\_

### C. Differentiate between Public cloud and Private cloud.

 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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## CLOUD COMPUTING

Chapter-5

CLASS 8

### A. Write T for true and F for false.

1. A private cloud best suited for companies with dynamic computing needs where they can take control over the environment of their cloud .....  
.....
2. A community cloud is owned by a particular company and allows its services to be accessed only within the company firewall. ....  
.....
3. SaaS is a method of delivering software over the internet. ....  
.....
4. You cannot delete a file from Google Drive. ....  
.....
5. The benefits of cloud computing are: Easy accessibility, cost effectiveness, flexibility and shares workload with the user. ....  
.....

### B. Answer the following questions.

1. What is ZipCloud?  
.....  
.....  
.....  
.....
2. What are the advantages of cloud computing?  
.....  
.....  
.....  
.....



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## CONTROL STRUCTURES IN PYTHON

### A. Tick (✓) the correct option.

1. In the if statement, if the expression is \_\_\_\_\_, the statements within if block are executed.

a. False

☐

b. True

☐

c. None of (i) and (ii)

☐

d. Both (i) &amp; (ii)

☐

2. In the following code, what is the output?

```
a = 33
```

```
b = 34
```

```
if b > a:
```

```
    print("b is greater than a")
```

```
elif a == b:
```

```
    print("a and b are equal")
```

a. a and b are equal

☐

b. b is greater than a

☐

c. None

☐

d. Message displaying "Invalid syntax"

☐

3. In the following code, what is an error?

```
a = 33
```

```
b = 200
```

```
if b > a:
```

```
    print("b is greater than a")
```

a. Invalid syntax

☐

b. Expected an indented block

☐

c. None of (i) and (ii)

☐

d. Both (i) and (ii)

☐

### B. Answer the following questions.

1. Why do we need decision-making statements?

.....

2. Explain for loop.

.....



## CONTROL STRUCTURES IN PYTHON

### A. Fill in the blanks.

1. Various types of control structures provided by Python are ....., ....., and .....
2. A statement or statements indented inside the if statement are executed only if the condition evaluates to .....
3. In ..... loop, it is known in advance how many times the loop is going to be executed.
4. The ..... statement is used in the for ( ) and while ( ) loops to terminate the loop.
5. All the statements are executed ..... one after the other as they appear in a program.

### B. Answer the following questions.

1. What is iteration in programming?  
.....  
.....
2. Why is iteration important?  
.....  
.....
3. Which two statements are used to implement iteration? Explain.  
.....  
.....

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## FUNCTIONS, STRING AND LIST IN PYTHON

### A. Fill in the blanks.

1. .... is a function defined by the users.
2. print() function is an example of ..... function.
3. .... is a function that accepts the values from the user.
4. For calling a function, we type a function's name and pass the .....
5. Creating a function involves two steps:
  - (i) .....
  - (ii) .....

### B. Answer the following questions.

1. "Python is a modular programming language". Explain.  
 .....  
 .....  
 .....  
 .....  
 .....
2. Explain the steps involved in creating a function.  
 .....  
 .....  
 .....  
 .....

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## FUNCTIONS, STRING AND LIST IN PYTHON

### A. Tick (✓) the correct option.

- Function breaks our code into smaller .....  
 a. modules ☐ b. functions ☐  
 c. commands ☐ d. comments ☐
- ..... is the keyword used to mark the start of function header  
 a. ref ☐ b. def ☐  
 c. com ☐ d. new ☐
- Parameters are the ..... through which we pass values to a function.  
 a. arguments ☐ b. statements ☐  
 c. commands ☐ d. None of these ☐
- The first step of creating a function is .....  
 a. Calling ☐ b. Defining ☐  
 c. Erasing ☐ d. Printing ☐
- ..... is used to mark the end of function header.  
 (i) : ☐ b. ; ☐  
 c. ! ☐ d. | ☐

### B. Answer in one or two lines

- Explain any two built-in functions to manipulate strings.  
 .....
- Why do we use Escape sequence in Python?  
 .....

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## ARTIFICIAL INTELLIGENCE AND ITS DOMAINS

### A. Write T for true and F for false.

1. Narrow AI is hypothetical and yet to be created.
2. The automated applications provided for majority of work are making humans lazy.
3. Decisions made by automated machines are heavily dependent on emotions.
4. The goal of computer vision is to train machines to see, process, and provide a useful result based on its observations within a very short time.
5. Human intelligence is not failure proof, but AI systems are.

### B. Answer the following questions.

1. Give some examples where AI is being used for good.

.....

.....

.....

2. What is the goal of computer vision?

.....

.....

.....

3. Explain the working of NLP domain of AI.

.....

.....

.....

Name: \_\_\_\_\_

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## ARTIFICIAL INTELLIGENCE AND ITS DOMAINS

### A. Tick (✓) the correct option.

- Which abilities are possessed by humans to learn, form concepts, understand, and apply logic and reason?
  - Psychic abilities ☐
  - cognitive abilities ☐
  - Both (i) and (ii) ☐
- Safety in AI can be understood as "AI must not cause accidents, or exhibit .....
  - harmful behaviour ☐
  - Human touch ☐
  - precision and accuracy ☐
- Alexa, Google Assistant are the examples of .....
  - Narrow AI ☐
  - General AI ☐
  - Super AI ☐
- Humans have the tendency to get bored while performing ..... tasks, which can hamper their productivity.
  - creative ☐
  - repetitive ☐
  - challenging ☐

### B. Answer the following questions.

- What are the risks involved with Artificial Intelligence?

.....

.....

- Explain the three domains of AI.

.....

.....

Name: \_\_\_\_\_

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Class: \_\_\_\_\_ Section: \_\_\_\_\_ Date: \_\_\_\_\_

## FIELDS OF ARTIFICIAL INTELLIGENCE

### A. Tick (✓) the correct option.

- Name an automated voice system that helps in interacting with customers by routing calls to appropriate banking departments and assisting them with the transactions after answering certain questions.
  - Interactive Voice Response System ☐
  - Radio-frequency Identification ☐
  - None of these ☐
- We can get updates of the latest news, set reminders for daily activities, simply by pairing our smartphone with smart home devices like .....
  - Fast tag ☐
  - Google Chrome ☐
  - Amazon Echo ☐
- The ..... was designed to use in assisting elderly patients by letting doctors monitor them and control robots to perform some basic tasks.
  - WoeBot ☐
  - UBot-5 ☐
  - Spotify ☐
- ..... uses AI to detect content having graphic violence.
  - Facebook ☐
  - Alexa ☐
  - WoeBot ☐

### B. Answer the following questions.

- How is AI enabling Navigation systems to be more accurate?

.....

- Can you imagine ways in which AI can help reduce deforestation?

.....

Name: \_\_\_\_\_

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## FIELDS OF ARTIFICIAL INTELLIGENCE

Chapter-10

CLASS 8

### A. Fill in the blanks

1. Companies are developing robots to handle agricultural tasks such as harvesting crops, and using computer vision and .....
2. With the advent of ....., customers can purchase any item online and make transactions without using physical money.
3. .... sites monitor the way you use the features that they provide and record the way you use it.
4. Launched in 2016, ..... is voice enabled AI-powered virtual assistant which supports both voice and text entries.
5. AI can help in traffic control using .....

### B. Answer the following questions.

1. Explain how Youper is helpful to us?

.....

.....

.....

2. Describe how AI can improve infrastructure of the city around resource management, waste handling, energy efficiency, land use etc. Give examples.

.....

.....

.....

Grade:



Teacher's Signature: \_\_\_\_\_



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## INTRODUCTION TO SDGs AND DATA SCIENCE

### A. State whether the following statements are True or False.

1. AI can help in solving all 17 UN SDGS. ....
2. Weather prediction can be done by using AI. ....
3. AI bias in the systems can lead to larger inequality issues. ....
4. Satellite data can be used to identify flooded areas and provide support. ....
- 5.) Early detection of climate change conditions is possible through AI. ....

### B. Answer the following questions:

1. Think of the way in which AI can help solve issue of world hunger. List down the possibilities.

.....

.....

.....

.....

2. How can AI help in a better justice system in the world? Can judges be replaced with AI?

.....

.....

.....

.....

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Chapter-11

CLASS 8

## INTRODUCTION TO SDGs AND DATA SCIENCE

### A. Tick (✓) the correct option.

1. AI can be used in managing gender issues online through:
  - a. Anti-harassment tracking on social media using NLP ☐
  - b. Computer Vision ☐
  - c. Data analytics of qualifications ☐
  - d. Chatbot-enabled counselling for any issues ☐
2. Which of these is an example of AI solving infrastructure management issues?
  - a. Improving land use through allocations ☐
  - b. Waste management through smart bins ☐
  - c. Street lighting ☐
  - d. Better air quality through planting trees ☐
3. Which of the following is the most popular software framework for big data and it is a tool that helps in regulating the storage of massive datasets?
 

a. Hadoop <input type="checkbox"/>	b. Tableau <input type="checkbox"/>
c. Both a and b <input type="checkbox"/>	d. None of these <input type="checkbox"/>
4. AI can help in sustainable communities through:
 

a. Traffic optimization <input type="checkbox"/>	b. Waste management <input type="checkbox"/>
c. Energy saving <input type="checkbox"/>	d. All of these <input type="checkbox"/>

### B. Answer the following questions.

1. How can AI help in achieving SDG 7?

.....

2. Differentiate between Structured and Unstructured data.

.....

Grade:



Teacher's Signature: \_\_\_\_\_