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Chapter-1

CLASS 7

## NUMBER SYSTEM

### A. Complete the sentences.

1. The base of decimal number system is .....
2. The position of first digit towards left side of the decimal point is .....
3. The most widely used number system is .....
4. A binary number is made up of only .....
5. Hexadecimal number system provides shortcut method to represent  
.....
6. Binary addition is similar to the addition of .....

### B. Write 'T' for true and 'F' for false. Correct and rewrite the false statements.

1. The word binary comes from 'Bi-' meaning three.  
.....
2. We cannot perform the addition operation on binary numbers.  
.....
3. The letters A to F represent the decimal numbers from 12 to 17 in hexadecimal number system.  
.....
4. A single binary digit (like '0' or '1') is called a 'byte'.  
.....
5. The octal number system consists of eight digits from 1 to 8.  
.....

### C. Read the clues and answer the following:

1. It contains a decimal point. ....
2. It uses the digits 0 to 7. ....
3. It consists of 16 digits. ....
4. It is simply a manner of counting. ....
5. It is used as a shorthand representation of long binary numbers. ....

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Chapter-2

CLASS 7

### APP DEVELOPMENT


#### A. Identify the category of the following Apps:

1.    .....

2.    .....

3.    .....

4.    .....

5.    .....

#### B. Answer the following questions:

1. What are Social Networking Apps?  
.....
2. What is Android?  
.....
3. Name any one App development tool.  
.....
4. What are the differences between native and hybrid apps?  
.....

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Chapter-3

CLASS 7

### ADVANCED FEATURES OF EXCEL 2016

#### A. Tick (✓) the correct option.

1. Which of the following is called field in a database?

a. Column

☐

b. Row

☐

c. Cell

☐

d. Worksheet

☐

2. Which of the following is a window used to display or enter a record in an Excel worksheet?

a. Row

☐

b. Form

☐

c. Textbox

☐

d. None of these

☐

3. Which of the following options is used to search a record in a form?

a. New

☐

b. Criteria

☐

c. Clear

☐

d. None of these

☐

#### B. Answer the following questions:

1. What is conditional formatting? Name any four criteria which can be used while applying conditional formatting?

.....

.....

2. What is the use of Pivot Tables?

.....

3. What is Data Validation?

.....

.....

4. Write the steps to delete a record.

.....

.....



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Chapter-4

CLASS 7

### CODING AND FLOWCHART

#### A. Tick (✓) the correct option.

- Which of the following shape is used to Input the data in the flowchart?
 

a. Oval	<input type="checkbox"/>	b. Rectangle	<input type="checkbox"/>
c. Parallelogram	<input type="checkbox"/>	d. Diamond	<input type="checkbox"/>
- Which of the following is the advantage of the flowchart?
 

a. Proper Documentation	<input type="checkbox"/>	b. Efficient Coding	<input type="checkbox"/>
c. Difficulty in Modification	<input type="checkbox"/>	d. Both (a) and (b)	<input type="checkbox"/>
- Which of the following symbol is used indicates a question or branch in the process flow?
 

a. Diamond	<input type="checkbox"/>	b. Triangle	<input type="checkbox"/>
c. Rhombus	<input type="checkbox"/>	d. Parallelogram	<input type="checkbox"/>

#### B. Fill in the blanks using the words given below.

**Hints:** Flowchart, Communicating, Flowline

- A ..... is a diagrammatic representation of the step-by-step plan that is supposed to be followed, for solving a task/problem statement.
- Flowcharts are better way of ..... the logic of the system.
- ..... shows the direction in which the process flows.

#### C. Answer the following questions:

- Describe Oval and Parallelogram symbols used in flowchart.

.....  
 .....

- Create a flowchart to calculate the area of a rectangle.

.....  
 .....

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Chapter-5

CLASS 7

### ADVANCED MAKECODE ARCADE

#### A. Tick (✓) the correct option.

1. Which is not a data type in programming?

a. Integer

☐

b. String

☐

c. Boolean

☐

d. Decimal

☐

2. What specifies the variable scope in code?

a. Variable name

☐

b. Data type

☐

c. Declaration

☐

d. Initialization

☐

3. Which loop repeats code a specified number of times?

a. While

☐

b. For

☐

c. Nested

☐

d. Do-while

☐

4. What does the 'continue' statement do?

a. Starts a loop

☐

b. Ends a loop

☐

c. Skips to next iteration

☐

d. Restarts a loop

☐

#### B. Write 'T' for true and 'F' for false.

1. Variable names can contain spaces.

.....

2. Initialization assigns an initial value to a variable.

.....

3. The for loop repeats code a set number of times.

.....

4. Break statement terminates the current loop.

.....

#### C. Answer the following questions:

1. What is variable initialization?

.....

2. What is the difference between global and local variables?

.....



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Chapter-6

CLASS 7

### FIELDS WHERE ROBOTS ARE USED

#### A. Tick (✓) the correct option.

- Which of the following is a block-based coding platform?
 

a. CodeMonkey Jr.	<input type="checkbox"/>	b. Emoji Scavenger Hunt	<input type="checkbox"/>
c. Shadow art	<input type="checkbox"/>	d. AutoDraw	<input type="checkbox"/>
- AutoDraw is developed by .....
 

a. Apple	<input type="checkbox"/>	b. Samsung	<input type="checkbox"/>
c. Google	<input type="checkbox"/>	d. Microsoft	<input type="checkbox"/>
- Which of the following is a kind-hearted garbage collector robot?
 

a. Wall-E	<input type="checkbox"/>	b. Baymax	<input type="checkbox"/>
c. Microbots	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>
- Which of the following is a data game?
 

a. Emoji Scavenger Hunt	<input type="checkbox"/>	b. Shadow art	<input type="checkbox"/>
c. Stone-Paper-Scissor	<input type="checkbox"/>	d. AutoDraw	<input type="checkbox"/>

#### B. Fill in the blanks with the hints.

**Hints:** 12, Emoji Scavenger Hunt, The Iron Giant, Artificial Intelligence

- The ..... game uses Computer Vision tool to identify and capture image from the Camera App.
- The game Shadow art has ..... animals.
- ..... movie revolves around a "Kid Robot".
- ..... is a giant "killer" robot from outer space has landed on Earth.

#### C. Write 'T' for true and 'F' for false.

- Shadow Art allows kids to learn how to make shadow puppets just by using their hands. ....
- AutoDraw is a powerful tool used for learning coding. ....
- The I robot is a killer robot. ....

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Chapter-7

CLASS 7

### EXPLORING MATH WITH CODING

#### A. Tick (✓) the correct option.

1. Which Logical Operator is used when one of the two conditions is true?

a. AND

☐

b. NOT

☐

c. OR

☐

d. Both (a) and (b)

☐

2. .... block is used when we need to apply multiple conditions.

a. else if

☐

b. if do

☐

c. for loop

☐

d. none of the above

☐

3. An angle of ..... degrees will have both sides on top of each other.

a. 90

☐

b. 180

☐

c. 360

☐

d. 0

☐

#### B. Write 'T' for true and 'F' for false.

1. AI does not help's in solving math problems.

.....

2. AND, OR and NOT are Logical operators.

.....

3. == symbol represent Equal operator.

.....

#### C. Answer the following questions.

1. Define Logical and Relational Operators.

.....  
.....

2. Write a program to determine whether the person comer under the criteria of a senior citizen or not on the basis of his/her age.

.....  
.....

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Chapter-8

CLASS 7

### EXPLORING SCIENCE WITH CODING-1

#### A. Tick (✓) the correct option.

1. Which of the following is the correct symbol for multiplication operator?

a. '%' ☐

b. '\*' ☐

c. '+' ☐

d. '/' ☐

2. Which of the following is not the unit of time?

a. Seconds ☐

b. Hours ☐

c. Minutes ☐

d. Miles ☐

3. .... operator is used to perform the mathematical remainder of two variables.

a. Modulus ☐

b. Subtraction ☐

c. Division ☐

d. Multiplication ☐

#### B. Complete the following sentences:

1. Modulus can only be carried out on ..... and ..... data types in Python.

2. To convert ..... to ..... multiply by 18/5.

3. In programming ..... symbol is used for division operator.

#### C. Answer the following questions:

1. What is the relationship between time, speed and distance?

.....  
.....

2. Write the program to calculate the distance of a vehicle where speed is 30km/hrs and time taken to cover the journey is 180 minutes.

.....  
.....



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Chapter-9

CLASS 7

### EXPLORING SCIENCE WITH CODING-2

#### A. Tick (✓) the correct option.

1. Which of the following is the SI power unit of Force?

a. Joules

☐

b. Newton

☐

c. Kelvin

☐

d. Celsius

☐

2. The pH value of blood is

a. 4

☐

b. 7

☐

c. 8

☐

d. 11

☐

3. The boiling point of Celsius is

a. 100°C

☐

b. 100°K

☐

c. 100°F

☐

d. 120°C

☐

#### B. Write 'T' for true and 'F' for false.

1. Fahrenheit scale is used for scientific work.

.....

2. The pH value of water is 7.

.....

3. Acceleration is same as speed.

.....

#### B. Answer the following questions.

1. Define temperature.

.....

.....

2. State third law of motion.

.....

.....



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Chapter-10

CLASS 7

### AI IN REAL WORLD

#### A. Tick (✓) the correct option.

- In Aadhaar Card three types of biometric data is used, fingerprint, facial image and .....?  

a. DNA	<input type="checkbox"/>	b. Iris	<input type="checkbox"/>
c. Xray	<input type="checkbox"/>	d. Blood group	<input type="checkbox"/>
- Which block is dragged and dropped from Facial Features sub-category to bring in the image of person in MakeCode Arcade Code.  

a. Set	<input type="checkbox"/>	b. Load Image	<input type="checkbox"/>
c. if else	<input type="checkbox"/>	d. Print	<input type="checkbox"/>
- Which extension is used to upload an image?  

a. img.docx	<input type="checkbox"/>	b. img.txt	<input type="checkbox"/>
c. img.jpg	<input type="checkbox"/>	d. img.pdf	<input type="checkbox"/>

#### B. Fill in the blanks using the words given below.

**Hints:** Face, John McCarthy, 0, Fingerprint

- ..... is the Father of Artificial Intelligence.
- ..... and ..... detection AI technologies are used for Aadhaar card.
- If a person is wearing sunglasses his/her eye count will be .....

#### C. Answer the following questions.

- From where do we "Get face count" block?

.....  
 .....

- Explain in simple language, the algorithm used for detecting if a person is wearing sunglasses or not.

.....  
 .....

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Chapter-11

CLASS 7

### TEXTUAL CODING

#### A. Tick (✓) the correct option.

- Which of the following should not be used as a variable.
 

a. Keyword	<input type="checkbox"/>	b. Special symbols	<input type="checkbox"/>
c. Uppercase	<input type="checkbox"/>	d. Both (a) and (b)	<input type="checkbox"/>
- Which of the following data type in Python is used to input decimal value?
 

a. Integer	<input type="checkbox"/>	b. Float	<input type="checkbox"/>
c. Boolean	<input type="checkbox"/>	d. String	<input type="checkbox"/>
- $x**y$  is an example of which arithmetic operator.
 

a. Multiplication	<input type="checkbox"/>	b. Modulus	<input type="checkbox"/>
c. Exponentiation	<input type="checkbox"/>	d. Division	<input type="checkbox"/>

#### B. Write 'T' for true and 'F' for false.

- Block code is same as textual code. ....
- output() command is used to print the output on screen. ....
- Syntax is like the grammar and spelling rules of a programming language. ....

#### C. Answer the following questions.

- List the types of input command.  
.....  
.....
- Define String data types.  
.....  
.....