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NUMBER SYSTEM

A. Match the following.

- | | |
|------------------------------|------------|
| 1. Binary number system | a. base 16 |
| 2. Octal number system | b. base 2 |
| 3. Decimal number system | c. base 8 |
| 4. Hexadecimal number system | d. base 10 |

B. Circle the correct option.

- The digital computer represents all kinds of data and information in (binary / octal) numbers.
- The (binary / decimal) number system consists of ten digits from 0 to 9.
- (Decimal / Octal) number system is used as a shorthand representation of long binary numbers.
- The (hexadecimal / octal) number system consists of 16 digits from 0 to 15.
- The positional value of each digit in octal number is (twice / thrice) the place value.

C. Write the full forms of the following:

- MSD –
- LSD –

D. Extract the binary number from the given example and write below:

2	64 – 0
2	32 – 0
2	16 – 0
2	8 – 0
2	4 – 0
2	2 – 0
	1 – 0

Binary number is:

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Chapter-1

CLASS 7

NUMBER SYSTEM

A. Define the following:

1. Number system-
2. Radix-
3. Binary addition-

B. Tick (✓) the correct option.

1. Base 2 is another name for the
 a. Binary number system ☐ b. Decimal number system ☐
 c. Hexadecimal number system ☐ d. None of these ☐
2. In binary addition, $1 + 1 =$
 a. 0 ☐ b. 10 ☐ c. 1 ☐ d. 11 ☐
3. Which of the following is a valid octal number?
 a. 183 ☐ b. 965 ☐ c. 983 ☐ d. 345 ☐
4. In binary number system, 1 Nibble is equals to
 a. 4 bits ☐ b. 8 bits ☐ c. 16 bits ☐ d. 1 bit ☐
5. The digital computer represents all kinds of data and information in numbers.
 a. binary ☐ b. decimal ☐
 c. hexadecimal ☐ d. None of these ☐

C. Convert the decimal number 44 into binary number.

.....

.....

.....

.....

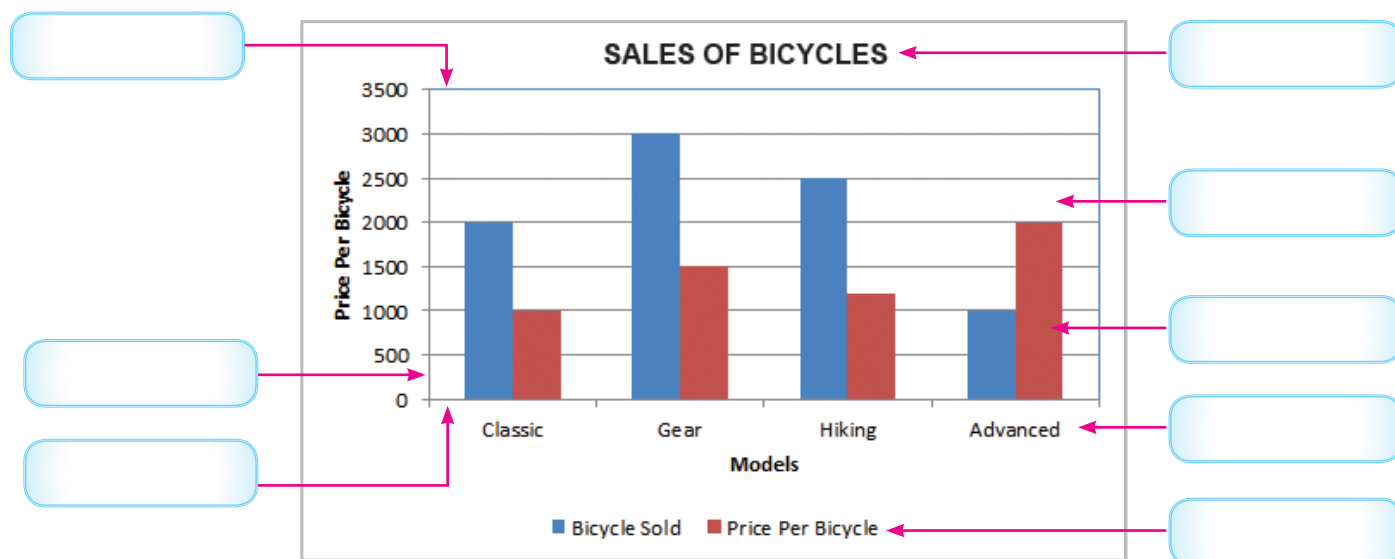
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CHARTS IN EXCEL 2016

A. Label the components of the given chart.



B. Tick (✓) the correct option.

1. A is an effective way to display data in a pictorial form.

a. Picture

☐

b. Chart

☐

c. Table

☐

d. Graphics

☐

2. describes the main aim of the chart.

a. Title bar

☐

b. Chart title

☐

c. Chart description

☐

d. X-axis

☐

3. labels include data values, category name, etc.

a. Information

☐

b. Data

☐

c. Axis

☐

d. Chart

☐

4. chart is used to show trends over a period of time.

a. Column

☐

b. Line

☐

c. Scatter

☐

d. Bar

☐

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CHARTS IN EXCEL 2016

A. Match the following:

- | | |
|--------------------------|---|
| 1. Area chart | a. Trends over a period of time |
| 2. Pie chart | b. Quantitative magnitude of data |
| 3. XY Scatter Plot Chart | c. Sector showing relative size of each other |
| 4. Line chart | d. Correlation between two sets of values |

B. Fill in the blanks using the hints given below:

Hints: Guidelines, Chart, Legend, Column, Pie, Scatter

- is used to draw comparison and analyse the growth and trends among the values in a table.
- can be either horizontal or vertical lines.
- shows the meaning of symbol and colours used in a chart.
- The chart usually displays the data in the form of vertical bars.
- chart shows only one data series at a time.

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

- Data representation using charts is quite inefficient.
- Y-axis of a chart is also known as the category axis.
- Chart area includes all the objects and elements in a chart.
- Scatter chart is also known as XY scatter plot charts.
- We cannot create Bar chart in Excel.

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ADVANCED FEATURES OF EXCEL

A. Read the clues and answer the following:

1. It is used to highlight cells that contain values greater than a particular value.
2. It is a way to arrange the data in ascending or descending order.
3. It is used to separate unwanted material from a mixture.

B. Circle the correct option.

1. The Add Level button is available under (Insert tab / Sort dialog box).
2. The (Conditional / Optional) Formatting option is available in Styles group under the Home tab.
3. The Highlight Cells (Rules / Data) Bars option is selected when you want to highlight all cells satisfying a given condition.
4. The filters once applied (can / cannot) be easily removed.
5. The filter can also be applied through Sort & Filter group under the (Data / Review) tab.

C. Write the name of the command which is used to:

1. Add colour schemes to all the selected cells slowly varying from top to bottom items.
.....
2. Add icon sets to show which cells are acceptable, which are moderate and which need attention.
.....
3. Add data bars to the cells having numeric data.
.....

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Chapter-3

CLASS 7

ADVANCED FEATURES OF EXCEL

A. Define the following:

- Conditional Formatting-
- Custom Sort -
- Sorting -

B. Tick (✓) the correct option.

- We use Sort A to Z option to sort

a. Numbers	<input type="checkbox"/>	b. Symbols	<input type="checkbox"/>
c. Text	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>
- The Sort & Filter command exist under the Editing group in the tab.

a. Home	<input type="checkbox"/>	b. Formula	<input type="checkbox"/>
c. Insert	<input type="checkbox"/>	d. Review	<input type="checkbox"/>
- The Sort smallest to largest option is used to sort

a. Numbers	<input type="checkbox"/>	b. Symbols	<input type="checkbox"/>
c. Text	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- The Sort & Filter group exist under the tab.

a. Home	<input type="checkbox"/>	b. Data	<input type="checkbox"/>
c. Both a and b	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- The option used to define your own rule for highlighting cells is

a. New Rule	<input type="checkbox"/>	b. Clear Rule	<input type="checkbox"/>
c. Create Rule	<input type="checkbox"/>	d. Add Rule	<input type="checkbox"/>

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MORE ON ANIMATE 2024

A. Fill in the blanks using the correct words.

- There are types of tween in Animate CC.
- Click on the in the Timeline to create a motion tween.
- FPS stands for
- To apply motion tween, convert the shape into
- The panel allows to change font, size, color, etc. of the selected text.
- The option under Modify menu is used to format contents of text separately.
- is used in Animate to hide a selected part from the audience.

B. Tick (✓) the correct option.

- Which tween is a type of transition?

a. Motion	<input type="checkbox"/>	b. Classic	<input type="checkbox"/>
c. Shape	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- The default FPS in animate is set to FPS.

a. 45	<input type="checkbox"/>	b. 34	<input type="checkbox"/>
c. 24	<input type="checkbox"/>	d. 54	<input type="checkbox"/>
- The timeline colour changes to when a shape tween is created.

a. Red	<input type="checkbox"/>	b. Purple	<input type="checkbox"/>
c. Green	<input type="checkbox"/>	d. Yellow	<input type="checkbox"/>
- are sheets on which you place your drawings.

a. Timelines	<input type="checkbox"/>	b. Boards	<input type="checkbox"/>
c. Layers	<input type="checkbox"/>	d. Stages	<input type="checkbox"/>
- Which of the following is used to hide a selected part and display content?

a. Masking	<input type="checkbox"/>	b. Action Script	<input type="checkbox"/>
c. Layer	<input type="checkbox"/>	d. Formatting	<input type="checkbox"/>

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MORE ON ANIMATE 2024

A. Write 'T' for true and 'F' for false.

1. The automatic animation created in Animate CC is called Tween.
2. Classic tween is mainly used for transition purposes.
3. Motion tween smoothly morphs a rectangle into a star.
4. The Shape Tween is indicated by the Yellow colour on the Timeline.
5. The Break Apart option is used to split a word into individual characters.

B. Look at the grid given below and find four terms related to Animate CC.

A	S	T	B	T	C	L	D	E	C
F	H	I	G	W	H	A	I	O	L
M	A	M	J	E	K	Y	L	V	A
O	P	E	O	E	N	E	M	A	S
T	E	L	P	N	Q	R	R	L	S
I	S	I	T	U	V	I	G	H	I
O	J	N	K	F	L	M	N	G	C
N	W	E	X	E	C	B	A	Z	Y

C. Answer the following questions.

1. Define tween.
.....
2. What are the various types of tween available in Animate CC?
.....

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INTERNET SERVICES

A. Tick (✓) the correct option.

- is a cloud storage service provider?

a. OneDrive	<input type="checkbox"/>	b. Gmail	<input type="checkbox"/>
c. Facebook	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which of the following type of account is required to access OneDrive service?

a. Microsoft website	<input type="checkbox"/>	b. Bank	<input type="checkbox"/>
c. Gmail	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- is a social networking website.

a. Facebook	<input type="checkbox"/>	b. Twitter	<input type="checkbox"/>
c. LinkedIn	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>
- is the process of writing blogs.

a. Blog	<input type="checkbox"/>	b. Podcasting	<input type="checkbox"/>
c. Downloading	<input type="checkbox"/>	d. Blogging	<input type="checkbox"/>
- Which of the following refers to the process of making digital recordings?

a. Blogging	<input type="checkbox"/>	b. Podcasting	<input type="checkbox"/>
c. Auditing	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

B. Answer the following questions,

- State any two advantages of Social networking websites.
.....
- Write a short note on online payment methods.
.....
- What do you mean by blog?
.....

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INTERNET SERVICES

Chapter-5

CLASS 7

A. Write 'T' for true and 'F' for false.

1. Bank cheque is a part of e-banking.
2. Windows 10 operating system has an in-built feature of One Drive.
3. Webpage is a collection of files and folders.
4. RSS is a collection of web feeds which could be headlines, videos, etc.
5. Length of the password created on Twitter is minimum 16 characters.
6. Quora is a social networking website.
7. You cannot promote business ideas or marketing on Facebook.
8. Google drive is an example of cloud backup services.

B. Fill in the blanks using the hints given below:

Hints: blogger, offline, social media, web feeds, Website, Facebook, cloud storage, Quora

1. Cash on delivery refers to an payment mode .
2. is a means to communicate and share information with a vast audience through websites.
3. is the biggest number of users social networking website.
4. A is a person who writes new posts about his experiences, opinions, stories, news, perspective, etc.
5. is a platform to ask questions which interest you.
6. Companies can rent or buy from a service provider instead of owning and maintaining the complete computing infrastructure.
7. is a collection of static pages such as home page, contact page, profile page.
8. RSS is a collection of which could be headlines, music video, blog entries, etc.

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APP DEVELOPMENT

A. Tick (✓) the correct option.

1. Which of the following uses apps?

a. Hand-held devices <input type="checkbox"/>	b. Laptops <input type="checkbox"/>
c. Desktop <input type="checkbox"/>	d. None of these <input type="checkbox"/>
2. developed Android.

a. Google <input type="checkbox"/>	b. Playstore <input type="checkbox"/>
c. Apple Inc. <input type="checkbox"/>	d. Microsoft <input type="checkbox"/>
3. platform dependent apps.

a. Native apps <input type="checkbox"/>	b. Hybrid apps <input type="checkbox"/>
c. Web apps <input type="checkbox"/>	d. None of these <input type="checkbox"/>
4. is not a gaming app.

a. Talking tom <input type="checkbox"/>	b. PUBG <input type="checkbox"/>
c. Angry Birds <input type="checkbox"/>	d. Candy Crush <input type="checkbox"/>
5. Which of the following is an appstore for android devices.

a. App Store <input type="checkbox"/>	b. Microsoft Store <input type="checkbox"/>
c. Play Store <input type="checkbox"/>	d. All of these <input type="checkbox"/>

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

1. Apps were not developed for desktops.
2. Linux is a desktop operating system.
3. Native apps require hand-held devices for installation.
4. Mobile apps cannot be used without internet connectivity.
5. Apps in the Google Play Store are not verified and certified by Google.

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APP DEVELOPMENT

A. Fill in the blanks using the hints given below:

Hints: hand-held, mobile app, web, native, gaming, mobile

- Hybrid apps created by combining the features of and apps.
- Android application is developed for devices such as smartphones and tablets.
- Android is an operating system for devices developed by Google.
- To use an , you need to install it first.

B. Answer the following questions.

- What is an application?
.....
- Define web apps.
.....
- State a difference between a web app and a native app.
.....
- State a benefit of e-commerce app.
.....

C. Guess who am I?

- I am an app store developed by Google.
- I am an app store developed by Apple Inc.
- I am a free app development tool, provided by Google.
- I am a mobile operating system developed by Apple Inc.

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MORE ON HTML5

A. Tick (✓) the correct option.

- Which language describes the structure of a web page?

a. Hypertext	<input type="checkbox"/>	b. Markup	<input type="checkbox"/>
c. Programming	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- tag hold all the content of a web page.

a. <HTML>	<input type="checkbox"/>	b. <HEAD>	<input type="checkbox"/>
c. <TITLE>	<input type="checkbox"/>	d. <BODY>	<input type="checkbox"/>
- Which of the following font properties is used to change the font size?

a. font-family	<input type="checkbox"/>	b. font-size	<input type="checkbox"/>
c. font-style	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which of the following background properties is used to specifies the repetition of an image on the web page?

a. background-image	<input type="checkbox"/>	b. background-imagerepeat	<input type="checkbox"/>
c. background-repeatimage	<input type="checkbox"/>	d. background-repeat	<input type="checkbox"/>
- Which tags are used to add headings in a web page?

a. Heading	<input type="checkbox"/>	b. Style	<input type="checkbox"/>
c. Superscript	<input type="checkbox"/>	d. Subscript	<input type="checkbox"/>

B. Fill in the blanks using the hints given below:

Hints: margin, paragraph, HTML, superscript, subscript

- is a markup language.
- The property is used to set margins for any web page element.
- The <P> tag is used to define a section of text as a
- The <SUB> tag stands for
- The <SUP> tag stands for

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MORE ON HTML5

A. Write 'T' for true and 'F' for false.

1. The <sub> tag has no attributes to align text.
2. The margin tag has 5 levels.
3. The background colour of the web page cannot be changed.
4. HTML allows you to change the colour of the text.
5. The <HR> tag is used to draw lines between paragraphs.

B. Answer the following question.

1. What is the use of <title> tag?
.....
.....
2. Which tag is used to break lines of text?
.....
.....
3. Which tag is used to write chemical formula?
.....
.....
4. What is the use of the <SUP> tag?
.....
.....
5. Which property is used to align the text in HTML5?
.....
.....

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LISTS AND TABLES IN HTML5

A. Circle the correct option.

1. An unordered list is also called (bulleted / numbered) list.
2. The (/) tag is used to define an unordered lists.
3. A list is a collection of (related / different) items.
4. The default bullet style is (Disc / Square) in HTML.
5. The (<TR> / <TD>) tag is used for defining table rows in HTML.

B. Read the clues and answer the following.

1. It is a combination of rows and columns in HTML.
.....
2. It is a tag used for defining the title of a table.
.....
3. It is an attribute used to give color to the border of the table.
.....
4. It is a tag used to define an item in the list.
.....
5. It is a tag used for defining table headings.
.....

C. Write the names of any four attributes of the <TABLE> tag in HTML5.

1.
2.
3.
4.

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CLASS 7

LISTS AND TABLES IN HTML5

A. Write the full form of the following:

1. <TR> -
2. <DT> -
3. <DL> -
4. <TD> -
5. -

B. Tick (✓) the correct option.

1. tag allows the user to insert a table in a web page.
 a. ☐ b. <TABLE> ☐ c. <A> ☐ d. ☐
2. Which of these properties are not used with the <TABLE> tag?
 a. border ☐ b. border-color ☐
 c. border-spacing ☐ d. None of these ☐
3. Which attribute is applied when single cell is extended for more than a single row?
 a. COLSPAN ☐ b. ROWSPAN ☐
 c. Both of these ☐ d. None of these ☐

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

1. The START attribute always accepts an character value.
2. Ordered list is used to create a bulleted list.
3. The <HT> tag is used to create a table in HTML.
4. The <TD> tag is used to create cells in the table.
5. The VALIGN attribute of the <TR> tag is used to align the position of text in the cell vertically.

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Chapter-9

CLASS 7

CONDITIONAL STATEMENTS IN PYTHON

A. Tick (✓) the correct option.

1. conditional statement is used to test multiple conditions.

a. if

☐

b. if...else

☐

c. if...elif...else

☐

d. All of these

☐

2. Which of the following conditionals can test multiple conditions?

a. if Statement

☐

b. if...else Statement

☐

c. if...elif...else Statement

☐

d. None of these

☐

3. What is the answer of the expression, $3**3**3$?

a. 3

☐

b. 27

☐

c. 9

☐

d. 18

☐

B. Write the output of the following programs:

a. a = 200

b = 33

if b > a:

print("b is greater than a")

else:

print("b is not greater than a")

.....
.....

b. num = 3.4

if num > 0:

print("Positive number")

elif num == 0:

print("Zero")

else:

print("Negative number")

.....
.....



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CONDITIONAL STATEMENTS IN PYTHON

A. Fill in the blanks using the hints given below:

Hints: non-zero, conditional, false, else

1. The if statement is the simplest statement.
2. In Python, the value is interpreted as false.
3. statements may give the results true or false.
4. The decision block will be executed if and only if the provided condition evaluates to

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

1. The if statement is the simplest conditional statement.
2. Python allows nested if statement.
3. The if...elif...else ladder is a conditional statement in Python.
4. The if statement executes a command if the provided condition evaluates to false.
5. The if...elif...else statement allows you to test single condition.

C. Answer the following questions.

1. Write a short note on decision making statement.
.....
2. Write the syntax for the if...else statement.
.....
3. Write a python program to convert Fahrenheit to Celsius.
.....
.....

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AI FOR SDGS

A. Tick (✓) the correct option.


1. According to SDG 2, world hunger will be curbed by

a. 2025 <input type="checkbox"/>	b. 2030 <input type="checkbox"/>
c. 2035 <input type="checkbox"/>	d. 3030 <input type="checkbox"/>
2. Integrating AI with education provides us with

a. Quality education <input type="checkbox"/>	b. Quality books <input type="checkbox"/>
c. Quality food <input type="checkbox"/>	d. Quality time <input type="checkbox"/>
3. When was the idea of SDG conceived?

a. 2010 <input type="checkbox"/>	b. 2011 <input type="checkbox"/>
c. 2012 <input type="checkbox"/>	d. 2014 <input type="checkbox"/>

B. Identify the following SDGs and write their names.

1. 
2. 
3. 
4. 

C. Answer the following questions.

1. Expand SDGs.
2. Worldwide, approximately how many percent people are struggling to fulfil the most basic needs like health, education and access to water and sanitation?
3. What percentage of earth's surface is occupied by the oceans?
4. How AI can be used in Health Care centers?

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AI FOR SDGS

A. Write 'T' for true and 'F' for false.

- SDG 7 aims to lessen the youth unemployment.
- The aim of SDG 10 is to provide clean water by reducing pollution, eliminating dumping and minimising release of harmful chemicals by 2030.
- SDG 5 aims to end hunger issues and ensure access to nutritious food for all children.
- Our oceans are vast and cover more than 80% of the earth's surface.

B. Fill in the blanks.

- The idea of SDG came from the summit in the year 2012.
- AI can be a vital for the global community to achieve the targets of the United Nations Sustainable Development Goals.
- AI for climate action has the potential to reduce global greenhouse gas emissions by up to percent.
- may help in improving industrial growth thereby improving the global financial market and institutions.

C. Assertion and Reasoning based question.

Assertion (A): AI powered apps can be used by employers to use gender sensitive language for their recruitment-drive. AI can analyse huge amount of data to find the area where more gender specific issues exist.

Reason (R): For sustainable development, it's necessary that we end all forms of discrimination against women. This is a basic human right. We need to provide equal access to resources, opportunities, power and property to women in the world.

- Both A and R are correct and R is the correct explanation of A.
- Both A and R are correct but R is NOT the correct explanation of A.
- A is correct but R is not correct.
- A is not correct but R is correct.