

Name: _____

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LATEST TECHNOLOGICAL DEVELOPMENTS

Chapter-1

CLASS 8

A. Tick (✓) the correct option.

- Which of these is not an area of application of AI?

a. Expert system	<input type="checkbox"/>	b. Natural Language Processing	<input type="checkbox"/>
c. 3D Printing	<input type="checkbox"/>	d. Robotics	<input type="checkbox"/>
- The app uses the GPS location of the smartphone and the camera to collect information about the user's surroundings.

a. Star Walk	<input type="checkbox"/>	b. Layar	<input type="checkbox"/>
c. Mimo	<input type="checkbox"/>	d. Compass	<input type="checkbox"/>
- The camera in the device recognizes and tracks the users hand gestures with the help of computer-vision techniques.

a. SixthSense	<input type="checkbox"/>	b. Google Glass	<input type="checkbox"/>
c. Oculus Rift	<input type="checkbox"/>	d. Mimo	<input type="checkbox"/>
- Which of these is the system of connected computing devices that creates a virtual network?

a. VR	<input type="checkbox"/>	b. IoT	<input type="checkbox"/>
c. RPA	<input type="checkbox"/>	d. AR	<input type="checkbox"/>

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

- Apps are software written for mobile devices based on robotics and machine learning technology.
- Facial recognition software and video surveillance cameras are examples of pattern recognition software.
- 3D Printing was first developed at MIT (Massachusetts Institute of Technology) in the 2005.
- Robotic automation creates a new IT structure with complex system integrations.

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LATEST TECHNOLOGICAL DEVELOPMENTS

Chapter-1

CLASS 8

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

Hints: Shakey, Virtual, RP, Augmented Reality, RPA

1. _____ is the blending of Virtual Reality and real life.
2. The purpose of _____ is to transfer the execution of the process from humans to robots.
3. _____ was the first robot to use AI to navigate.
4. In _____ Reality, a virtual world is created that users can interact with.
5. _____ method is used to create models to quickly test a new product before mass production.

B. Answer the following questions:

1. What is AI?
.....
2. What is Pattern Recognition?
.....
3. What do you mean by Rapid prototyping?
.....
4. What is RPA? Explain.
.....

C. Match the following:

- | | |
|----------------------|-----------------------------|
| 1. Industry | a. Application |
| 2. Financial service | b. Premium information |
| 3. Telecom | c. Checking frauds |
| 4. Insurance | d. Service order management |

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COMPUTER NETWORKING

Chapter-2

CLASS 8

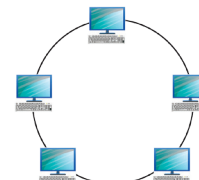
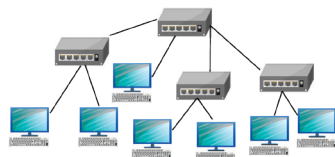
A. Circle the correct option.

1. The process of (connecting / separating) computers and peripheral devices with each other, so that they can exchange data is called computer networking.
2. A (server / client) is also called host computer.
3. (LAN / WAN) is a digital communication system that interconnects a larger number of computers and other peripheral devices within a radius of less than 1 km.
4. In (Ring / Star) topology, all the nodes are connected in a circular path.
5. (Protocol / Bluetooth) is a set of rules that governs the communication between the computers on a network.

B. Complete the sentences.

1. Modem stands for MODULATOR
2. Networking cable is also known as
3. The computer which performs a specific task is called the
4. The total diameter of LAN is not more than

C. Name the type of topology used in below images:



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COMPUTER NETWORKING

Chapter-2

CLASS 8

A. Define the following:

1. Modem -
2. Hub -
3. Computer Network -

B. Tick (✓) the correct option.

1. Which networking device can convert the digital data into analog signal and vice versa?

a. Hub <input type="checkbox"/>	b. Modem <input type="checkbox"/>
c. Router <input type="checkbox"/>	d. LAN Card <input type="checkbox"/>
2. Which of these is not a protocol?

a. HTTP <input type="checkbox"/>	b. HTTPS <input type="checkbox"/>
c. FTP <input type="checkbox"/>	d. HTML <input type="checkbox"/>
3. Which of these is the Internet standard protocol that allows clients to retrieve e-mail messages from an e-mail server?

a. HTTP <input type="checkbox"/>	b. FTP <input type="checkbox"/>
c. POP3 <input type="checkbox"/>	d. None of these <input type="checkbox"/>
4. Which of the following is a wireless communication technology?

a. Bluetooth <input type="checkbox"/>	b. Wi-Fi <input type="checkbox"/>
c. Both a and b <input type="checkbox"/>	d. None of these <input type="checkbox"/>

C. Write the full form of the following:

1. HTTP -
2. MAN -
3. NIC -

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WORKING WITH ACCESS 2016

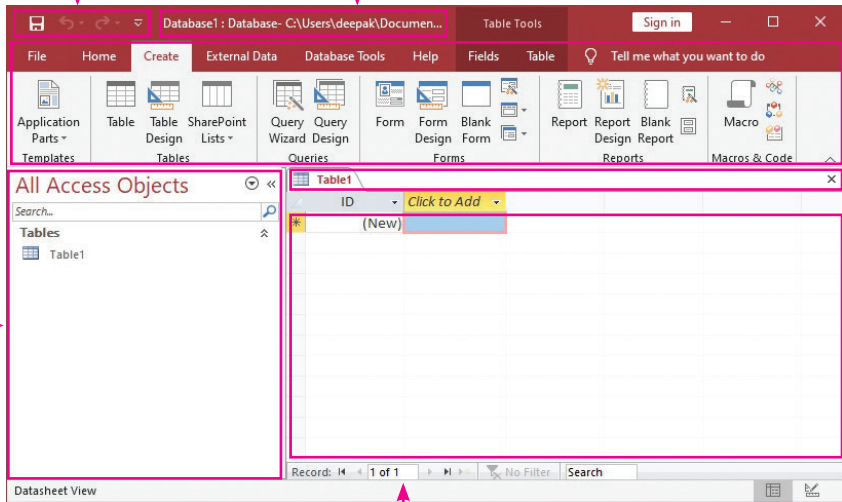
Chapter-3

CLASS 8

A. Read the clues and answer the following:

1. It is a type of database that contains records having small number of fields without any structured relationship between them.
2. It is a type of database that stores data in several tables and links those tables together to get a common piece of information.
3. He gave a set of thirteen rules (Codd's rules) to define a Relational Database Management System.
4. It is a group of related data organised in columns and rows in a database.
5. It is a unique field by which the records are uniquely identified in a table.

B. Label the components of Access 2016 in the given window.



The screenshot shows the Microsoft Access 2016 interface. The ribbon at the top includes File, Home, Create, External Data, Database Tools, and Help. The 'Create' ribbon is active, showing options for Application Parts, Table, Table Design, SharePoint Lists, Query Wizard, Query Design, Form, Form Design, Blank Form, Report, Report Design, Blank Report, and Macro. The 'All Access Objects' pane on the left shows a search bar and a list of objects, including 'Table1'. The main window displays 'Table1' in Datasheet View, with columns for ID and a new record. The status bar at the bottom indicates 'Record: 1 of 1' and 'No Filter'. Several empty blue boxes with arrows point to different parts of the interface for labeling:

- Two boxes at the top point to the 'File' and 'Home' tabs.
- Two boxes on the right point to the 'Table' and 'Form' options in the ribbon.
- Two boxes on the right point to the 'Report' and 'Macro' options in the ribbon.
- One box on the left points to the 'All Access Objects' pane.
- One box at the bottom points to the 'Table1' datasheet.

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WORKING WITH ACCESS 2016

Chapter-3

CLASS 8

A. Define the following:

1. Database -
2. Report -
3. Query-

B. Tick (✓) the correct option.

1. Which of the following is not an Access object?

a. Query	<input type="checkbox"/>	b. Report	<input type="checkbox"/>
c. Form	<input type="checkbox"/>	d. Database	<input type="checkbox"/>
2. button helps in navigating through the records.

a. Navigation	<input type="checkbox"/>	b. Control	<input type="checkbox"/>
c. Object	<input type="checkbox"/>	d. Database	<input type="checkbox"/>
3. Which of the following data types is used to store the links to web pages, websites, files, etc.?

a. Number	<input type="checkbox"/>	b. Memo	<input type="checkbox"/>
c. Object	<input type="checkbox"/>	d. Hyperlink	<input type="checkbox"/>
4. Which of the following ways is used to create a table in Access 2016?

a. Design View	<input type="checkbox"/>	b. Datasheet View	<input type="checkbox"/>
c. Templates	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>

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MORE ON ACCESS

Chapter-4

CLASS 8

A. Circle the correct option.

1. (Form / Design) View is used to enter, edit and view data.
2. (Relationship / Select Query) retrieves data from one or more tables.
3. (Field / Table) is the first row of the design grid that displays the selected field names from the table.
4. (Criteria / Sort) displays the condition on the basis of which the records will be filtered and displayed in the query output.

B. Read the clues and answer the following:

1. It is used to set multiple conditions in a query.
2. It displays the name of the existing tables in the relationship window.
3. It is the first row of the design grid that displays the selected field names from the table.
4. It is a column in one table that must match the Primary Key of another table.
5. It is a query that uses a row heading and column heading so that you can see your data in terms of two categories at once.

C. Answer the following questions:

1. Differentiate between query and report.
.....
2. Give any one use of the report object in Access.
.....

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MORE ON ACCESS

Chapter-4

CLASS 8

A. Define the following:

1. Parameter Query -
2. Foreign Key -
3. SQL -

B. Tick (✓) the correct option.

1. are the links that associate a field in one table with the same field in another table.

a. Structures

☐

b. Binding

☐

c. Relationships

☐

d. Printing

☐

2. SQL stands for

a. Structured Query Language

☐

b. Structured Question Language

☐

c. Both (a) and (b)

☐

d. None of these

☐

3. Which of the following is a type of query in MS Access?

a. Select Query

☐

b. Parameter Query

☐

c. Action Query

☐

d. All of these

☐

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

1. Sort parameter displays the name of the existing tables in the relationship window.
2. We can run a query by clicking on the Report button.
3. Split Form type is useful in creating navigational menu systems.

Grade:



Teacher's Signature: _____

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MORE ON HTML

Chapter-5

CLASS 8

A. Circle the correct option.

1. HTML allows you to insert images inside the web pages through the (/ <IMAGE>) tag.
2. The (ALT / SRC) attribute specifies the source or URL of the image that has to be inserted in the web page.
3. HTML (allow / does not allow) you to move your objects left, right, up, and down.
4. We (can / cannot) move images from left to right on a HTML web page.
5. Hyperlink text is generally seen in (blue / green) color.

B. Read the clues and answer the following:

1. It is an attribute that indicates the speed of the moving object.
2. It is an attribute that allows you to set the direction in which the object will move.
3. It is a tag used for creating links, that is, hyperlinking in HTML web pages.
4. It is an attribute that specifies the thickness of the border surrounding the image.
5. It is an attribute that have three values, which are SLIDE, SCROLL and ALTERNATE.

C. Write the HTML code to create a Web page that has an image "lily.jpg" on the right side.

.....

.....

.....

.....

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MORE ON HTML

Chapter-5

CLASS 8

A. Write the tag to:

1. Move an object or text on the Web page.
2. Insert an image on the Web page.
3. Create a hyperlink.
4. Divide a browser window into many sections.

B. Tick (✓) the correct option.

1. Which attribute specifies the alternate text to be displayed in the web browser, if the provided image is not found?

a. SRC	<input type="checkbox"/>	b. ALT	<input type="checkbox"/>
c. ALTERNATE	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
2. Which of the following attributes of the <FRAMESET> tag is used to divide the window into vertical frames?

a. SRC	<input type="checkbox"/>	b. ROWS	<input type="checkbox"/>
c. COLS	<input type="checkbox"/>	d. FRAMES	<input type="checkbox"/>
3. To create a hyperlink of an email, which of the following options is used with the email address of the recipient?

a. MAILTO	<input type="checkbox"/>	b. MAIL	<input type="checkbox"/>
c. Both (a) and (b)	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
4. Which of the following attributes is used with the HREF attribute to create internal linking?

a. ALINK	<input type="checkbox"/>	b. VLINK	<input type="checkbox"/>
c. NAME	<input type="checkbox"/>	d. LINK	<input type="checkbox"/>
5. Which of the following values is not used with the DIRECTION attribute of the <MARQUEE> tag?

a. LEFT	<input type="checkbox"/>	b. RIGHT	<input type="checkbox"/>	c. DOWN	<input type="checkbox"/>	d. TOP	<input type="checkbox"/>
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INTRODUCTION TO PHOTOSHOP

Chapter-6

CLASS 8

A. Read the clues and answer the following:

1. It is an image creation and editing software developed by Adobe Inc.
2. It displays different options and properties that are available for the selected tool.
3. It contains various tools that are used to create, edit and enhance an image.
4. It is used to set order of visibility of the objects.
5. It is the place where you create and edit images

B. Circle the correct option.

1. Photoshop was first developed by (Thomas Knoll / Thomas Edison).
2. (Resolution / Color Mode) specifies the number of pixels per inch.
3. Photoshop adds (.psd / .pds) extension to the filename.
4. (Crop Tool / Lasso Tool) is used to remove unwanted portion from an image.
5. The (Fill / Stroke) option is used to select colour to be filled in the rectangle.

C. Name the following tools in Photoshop:



1.

2.

3.

4.

Name: _____

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INTRODUCTION TO PHOTOSHOP

Chapter-6

CLASS 8

A. Write the name of tool used to:

1. Erase or rub some portion of an image or workspace.
2. Draw a rectangle or a square.
3. Give blending effect between two or more colours to the workspace.
4. Fill colour in closed image and selected parts of an image.
5. Type text on the image or blank workspace.

B. Define the following:

1. Photoshop -
2. Quick Selection Tool -
3. Brush Tool -

C. Tick (✓) the correct option.

1. Which of the following options is used to increase or decrease the transparency of the brush color?

a. Opacity	<input type="checkbox"/>	b. Stroke	<input type="checkbox"/>
c. Fill	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>
2. Which tool is used to detect the edges of the image automatically?

a. Quick Selection Tool	<input type="checkbox"/>	b. Marquee Tool	<input type="checkbox"/>
c. Move Tool	<input type="checkbox"/>	d. Crop Tool	<input type="checkbox"/>
3. Which of the following panels is used to set order of visibility of the objects?

a. Adjustments panel	<input type="checkbox"/>	b. Layers panel	<input type="checkbox"/>
c. Color panel	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

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MORE ON PHOTOSHOP

Chapter-7

CLASS 8

A. Circle the correct option.

1. (Retouching / Correction) tools are used to remove or add some features to the image.
2. Clone (Stamp / Healing) Brush Tool is used to duplicate a part of an image.
3. Pattern (Stamp / Blur) Tool is used to give attractive textures and backgrounds to the image.
4. We (can / cannot) create a new layer in Photoshop.
5. (Spot Healing Brush / Sharpen) Tool is used to repair dark spots, scratches, etc. from the image.

B. Read the clues and answer the following:

1. It is a tool used to sharpen the image.
2. It is a tool used to blur the background of an image.
3. These are transparent sheets containing objects which are stacked on top of each other.
4. It is a shortcut key used to select the Spot Healing Brush Tool.
5. It is a bar from where you can select the brush size and hardness.

C. Identify the given tools and write their names.

1. 
2. 
3. 

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MORE ON PHOTOSHOP

Chapter-7

CLASS 8

A. Fill in the blanks.

- tool helps you to sharpen images to improve their quality.
- You can create a new layer by pressing keys.
- are transparent sheets.
- tool is used to duplicate a part of an image.

B. Tick (✓) the correct option.

- Which of these tools is used to repair dark spots on the image?

a. Text Tool	<input type="checkbox"/>	b. Spot Healing Brush Tool	<input type="checkbox"/>
c. Brush Tool	<input type="checkbox"/>	d. Rectangle Tool	<input type="checkbox"/>
- Pattern Stamp Tool is a hidden tool under tool.

a. Blur Tool	<input type="checkbox"/>	b. Sharpen Tool	<input type="checkbox"/>
c. Clone Stamp Tool	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- To create a new layer, click on Create a new layer button at the bottom of the panel.

a. Layers	<input type="checkbox"/>	b. Options bar	<input type="checkbox"/>
c. Both (a) and (b)	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- The Tool is used to give attractive textures and backgrounds to the image.

a. Blur	<input type="checkbox"/>	b. Layer	<input type="checkbox"/>
c. Sharpen	<input type="checkbox"/>	d. Pattern Stamp	<input type="checkbox"/>

C. Write a short note on the following:

- Retouching Tools -
- Correction Tools -

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LOOPS IN PYTHON

Chapter-9

CLASS 8

A. Tick (✓) the correct option.

- Which of the following is a looping statement in Python?

a. for statement	<input type="checkbox"/>	b. while statement	<input type="checkbox"/>
c. if statement	<input type="checkbox"/>	d. break statement	<input type="checkbox"/>
- Which of the following statements allow to repeat a task for a fixed number of times?

a. for statement	<input type="checkbox"/>	b. while statement	<input type="checkbox"/>
c. if...else statement	<input type="checkbox"/>	d. continue statement	<input type="checkbox"/>
- Which of the following statements terminates the execution of the loop?

a. if	<input type="checkbox"/>	b. for	<input type="checkbox"/>
c. break	<input type="checkbox"/>	d. continue	<input type="checkbox"/>

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

Hints: break, inbuilt, while, continue

- The range() function is a/an function of Python.
- The statement executes a set of statements repeatedly, until the logical expression remains true.
- The and are the jump statements in Python.

C. Write the output of the following programs.

- ```
i = 0
while i < 3:
 print (i)
 i += 1
else:
 print (0)
```
- ```
fruits = ["apple", "banana", "cherry"]
for x in fruits:
    print(x)
```

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LOOPS IN PYTHON

Chapter-9

CLASS 8

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

Hints: infinite, break, inbuilt, while, continue, non-zero

1. The range() function is a/an function of Python.
2. The statement executes a set of statements repeatedly, until the logical expression remains true.
3. Any value in the while loop indicates an always true condition whereas zero indicates condition.
4. The loop never ends.
5. The and are the jump statements in Python.

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

1. We can use do-while loop in Python.
2. The continue statement breaks the loops one by one.
3. Function blocks begin with the keyword followed by the function name and parentheses.
4. We cannot create our own functions in Python.
5. The while statement is the looping statement.

C. Answer the following questions:

1. What is looping?
.....
2. Write the syntax of the 'for loop'.
.....