



Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

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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KRITA—IMAGE EDITING

A. Identify the following tools of Krita:

1. 
2. 
3. 
4. 

B. Guess who am I?

1. I am the place for creating and editing images.
2. I am used to apply color effects to the images.
3. I am used to set order of visibility of the objects.
4. I am the option which displays the zoom level cursor coordinates, brush settings, document information, etc.

C. Answer the following questions:

1. What is Font Anchoring?
.....
.....
2. Differentiate between Contiguous and Freehand selection tool.
.....
.....

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ADVANCED FEATURES OF EXCEL 2016

A. Tick (✓) the correct option.

1. Under which tab on the ribbon does the Form command appear in Excel?

a. Home

☐

b. Insert

☐

c. View

☐

d. Data

☐

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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ALGORITHMIC INTELLIGENCE

A. Tick (✓) the correct option.

1. If $M=101$, J is 000 , what will MJ be written as in binary?

a. MJ

☐

b. 101000

☐

c. 000101

☐

d. $M101J000$

☐

2. Electrical signal 1 stands for and 0 stands for

a. OFF, ON

☐

b. ON, OFF

☐

c. NO, YES

☐

d. EVEN, ODD

☐

B. Write the conditions of the following:

1. If number is divisible by 5.

.....

2. To display "MATCH" if it is Sunday otherwise display "NO MATCH".

.....

3. To display "RAIN" if it is a rainy day today otherwise display "SUNNY DAY".

.....

C. Answer the following questions:

1. What is if-then-else condition?

.....

2. How does computer store and process information?

.....

3. Write an 'if' condition to display "picnic" if it is Sunday today otherwise display "School".

.....

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MORE ON MAKECODE ARCADE

A. Tick (✓) the correct option.

- What is the process of assigning a value to a variable called?

a. Declaration	<input type="checkbox"/>	b. Identification	<input type="checkbox"/>
c. Initialisation	<input type="checkbox"/>	d. Execution	<input type="checkbox"/>
- Which of the following is used to increase or decrease the value of a variable in MakeCode Arcade?

a. set to	<input type="checkbox"/>	b. add to	<input type="checkbox"/>
c. splash	<input type="checkbox"/>	d. change by	<input type="checkbox"/>
- Which block in the Logic category is used to show a different output if a condition is false?

a. if-then	<input type="checkbox"/>	b. logical not	<input type="checkbox"/>
c. if-then-else	<input type="checkbox"/>	d. equal	<input type="checkbox"/>
- What does the comparison block do?

a. Starts a loop	<input type="checkbox"/>	b. Ends a loop	<input type="checkbox"/>
c. Skips to next iteration	<input type="checkbox"/>	d. Restarts a loop	<input type="checkbox"/>

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

- Variable names can contain spaces.
- Initialization assigns an initial value to a variable.
- A variable can store more than one value at a time.
- The logical not block returns true if the condition is false.

C. Answer the following questions:

- What does conditional blocks do?
.....
- What is the use of absolute of block?
.....

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MORE ON PYTHON

A. Write a short note on the following:

1. Nested if statement -
2. if...elif...else statement -
3. if else statement -

B. Fill in the blanks.

1. The statements are used as decision making statements in Python.
2. Float data types represent numbers that contain a point.
3. operator returns true, if one of the conditions is true.
4. operator takes modulus of two operands and assigns the result to left operand.
5. To add a multi-line comment, you could insert a for each line.

C. Write a Python program to calculate the volume of cylinder.

.....

.....

.....

.....

.....

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Chapter-7

CLASS 7

HUMANS AND MACHINES

A. Tick (✓) the correct option.

1. Who invented the QWERTY keyboard?

a. Christopher Latham Sholes ☐

b. Charles Babbage ☐

c. Alan Turing ☐

d. Claude Shannon ☐

2. Which interface allows audio mode to interact with the computing devices?

a. Touch sensitive ☐

b. Command line ☐

c. Voice user ☐

d. Virtual reality ☐

3. Who created the first VR headset?

a. Ivan Sutherland ☐

b. Steve Mann ☐

c. Morton Heilig ☐

d. Ralph Baer ☐

B. Fill in the blanks.

1. The first general purpose electronic computer was

2. interfaces work by recognising the touch of the user either by a finger or stylus.

3. created the first non-intrusive eye tracker.

4. launched the first data entry watch.

5. tracked users motion and translated them into instructions or responses.

6. The keyboard was one of the first text input devices.

C. Answer the following questions:

1. Name the stages of HMI.

.....

2. What do you understand by multi-touch technology?

.....

3. What is a smart watch?

.....

Grade:



Teacher's Signature: _____

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TYPES OF AI

A. Answer the following in one or two words:

1. Name any one subset of AI.
2. Give any one example of Weak AI.
3. Into how many categories can we classify AI?
4. What is another name for Weak AI?
5. Which category of AI machines are still in hypothetical stage?

B. Match the following:

- | | |
|--------------|------------------------------------|
| 1. Weak AI | a. Surpasses human intelligence |
| 2. Strong AI | b. Performs Specific task |
| 3. Super AI | c. Possess human like intelligence |

C. Answer the following questions:

1. What does AI aim to do?
.....
.....
2. Write two characteristics of AI.
.....
.....
3. Explain the different categories of AI.
.....
.....

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SMART LIVING

A. Tick (✓) the correct option.

1. Which concept makes life easier using electronic appliances?

- | | | | |
|-----------------|--------------------------|-------------------------|--------------------------|
| a. Smart health | <input type="checkbox"/> | b. Smart transportation | <input type="checkbox"/> |
| c. Smart living | <input type="checkbox"/> | d. Smart cities | <input type="checkbox"/> |

2. Which AI system helps in early disease detection?

- | | | | |
|-----------|--------------------------|-------------|--------------------------|
| a. Watson | <input type="checkbox"/> | b. DeepMind | <input type="checkbox"/> |
| c. Alexa | <input type="checkbox"/> | d. Siri | <input type="checkbox"/> |

3. What helps provide real-time parking information?

- | | | | |
|---------------------|--------------------------|-------------------------|--------------------------|
| a. Lighting sensors | <input type="checkbox"/> | b. Surveillance cameras | <input type="checkbox"/> |
| c. Parking sensors | <input type="checkbox"/> | d. Smart speakers | <input type="checkbox"/> |

4. Which is not a device used in smart homes?

- | | | | |
|-------------------|--------------------------|---------------------|--------------------------|
| a. Smart hub | <input type="checkbox"/> | b. Smart camera | <input type="checkbox"/> |
| c. Smart elevator | <input type="checkbox"/> | d. Smart thermostat | <input type="checkbox"/> |

5. Which is a benefit of smart cities?

- | | | | |
|--------------------|--------------------------|-------------------|--------------------------|
| a. Traffic jams | <input type="checkbox"/> | b. Water shortage | <input type="checkbox"/> |
| c. Economic growth | <input type="checkbox"/> | d. Power wastage | <input type="checkbox"/> |

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

- Unlocking phones via face recognition uses AI.
- Smart hubs provide device connectivity in homes.
- Smart smoke detectors sense carbon monoxide.
- Smart lighting helps conserve energy.
- Traffic is better managed in smart cities.

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FIELDS WHERE ROBOTS ARE USED

A. Tick (✓) the correct option.

1. Which of the following robots is used in Japanese cooking?

a. Da Vinci

☐

b. Suzumo Sushi Chef

☐

c. Odaiba

☐

d. RV-100

☐

2. What is the name of the flying robot used in surveillance?

a. DOGO

☐

b. MAARS

☐

c. Flyability

☐

d. R2

☐

3. What is Root AI used for?

a. Coding education

☐

b. Tomato picking

☐

c. Surveillance

☐

d. Cooking

☐

4. Which of these robots is used for space maintenance tasks?

a. Spidernaut

☐

b. RASSOR

☐

c. Merlin

☐

d. Da Vinci

☐

B. Fill in the blanks.

1. in Japan works in the tourist information centre.

2. Deep Trekker drone is controlled by a handset.

3. was the first robot to join an assembly line in 1961.

4. robots include MAARS and DOGO.

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

1. Motoman SDA5 is a master robot in space.

.....

2. Nadine robot works in healthcare.

.....

3. Shipwreck robots help in finding wrecked ships.

.....

