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Roll	No:			DIG	IA EGOZI
Clas	s:	Section:	Date:		Ver. 2.1 ♦
5A	FEC	GUARDING YOUR CO	MPUTER		Chapter-1
A.	Tic	k (√) the correct opti	on.		
	1.	Which of the following	ng option is the mo	st common type of mal	ware?
		a. Worm		b. Virus	
		c. Spyware		d. None of these	
	2.	Which of the followi keeps popping adver	•	ser's browser and dow creen?	nload history and
		a. Virus		b. Trojan Horse	
		c. Adware		d. None of these	
	3.	Which of the following	g option is a set of pr	ograms that identify and	d remove malware?
		a. Antivirus		b. Emotet	
		c. Virus		d. None of these	
B.	Wr	ite 'T' for true and 'F'	for false.		
	1.	Mydoom Worm would	d spread itself with th	e message: "Hacked By C	hinese!"
	2.	Wabbit Virus (1974) r slows down and cras		ies of itself until the syst	tem
	3.	Emotet secretly infective the device completel	•	ndroid or iOS) and track	KS
	4.	Storm Worm (2007) a about approaching b		computers with an ema	ail
C.	An	swer the following qu	uestions:		
	1.	Define cyber crimes.			• • • •
					• •
	2.	Name the types of or	nline transaction fra	nuds.	• •
					•••
	3.	What rules should yo	u remember while	using social media?	• •



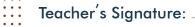
















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SAFEGUARDING YOUR COMPUTER

Chapter-1

A. Find the given words in the following grid:

Hints: Trojan, Spyware, Adware, Virus, Worm



B. Answer the following questions:

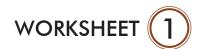
1.	Write any three harms caused by computer malware.					
2.	Write about the don'ts to protect the computer?					

C. Rearrange the following:

- 1. SMTOR
- 2. CEDO RDE
- 3. TETEMO
- 4. SEPAGUS







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FO	RMI	MULAS AND FUNCTIONS IN EXCEL	Chapter-2
Α.	Re	ead the clues and answer the following:	
	1.		range.
	2.	 It is used to check whether the given condition returns value1 if the condition evaluates to tru the condition evaluates to false. 	
	3.	. It is a built-in function that returns the current	date.
	4.	. It calculates the maximum, minimum, average set of numeric data.	etc. of a
B.	Cir	ircle the correct option.	
	1.	. Absolute cell references in Excel use the (dolla	ır (\$) / equal (=) symbol).
	2.	. Built-in formulas in Excel are called (functions/	/methods).
	3.	 The (hash / exclamation) sign point separates th from the cell portion. 	e worksheet portion of the reference
	4.	 Formula is visible in the (Status bar / Formula bar the result of the formula. 	r) when you select a cell that contains
	5.	. (Statistical / Mathematical) function calculates the	he average of a given set of numbers.
C.	Wr	Vrite the use of the following functions in Exce	d:
	1.	. UPPER() –	
	2.	. COUNT() –	
	3.	. UPPER() –	
	4.	. SQRT() –	
D.		earrange the following:	
	1.		
	2.	. RNAGE	



3. FNUCIONT





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FO	RMI	JLAS AND FUNCTION	S IN EXCEL			Chapter-2	7 25
A.	De	fine the following:					7
	1.	SUM()					• • •
	2.	PRODUCT() -					• • •
	3.	INT()					
	4.	Len() -					
B.	Tic	k (√) the correct option	•				
	1.	What are built-in formu	las in Excel called	?			
		a. Equations		b. Funct	ions		
		c. Methods		d. Cells			
	2.	Numbers or text values	that do not chan	ge are called .		• • • • • • • • • • • • • • • • • • • •	
		a. Function		b. Const	ant		
		c. Reference		d. All of	these		
	3.	What will be the result	of =UPPER("form	ıla")?			
		a. Formula		b. FORM	IULA		
		c. formula		d. None	of these		
C.	Wr	ite the formula to:					
	1.	Concatenate the text st	rings "Touch" and	"Pad".			
							• •
	2.	Find the maximum valu	ie from the 3, 5, 9	, 10, and 13 va	alues.		• •
	_						
	3.	Find the current day fro					• •
	4.	Extract three characters			string "Conca		• • • •
	••						• •



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MORE ON EXCEL

Chapter-3

A. Read the clues and answer the following:

- 1. It is related to the set of values.
- 2. It is a type of chart in Excel that shows the correlation between two sets of values.
- 3. It is the vertical axis that is used to plot the values in Excel.
- 4. It is a key which shows the meanings of symbols and colours used in the chart.
- 5. It can arrange the selected data in either ascending or descending order.
- B. Label the components of a chart.



C.	Name any four types of charts in Excel. Describe each one of them briefly.				







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M	DRE	ON EXCEL		Chapter-3
A.	De	fine the following:		
	1.	Custom Sort		
	2.	Gridlines		
	3.	Chart -		
	4.	Plot Area		
B.	Tic	k (✓) the correct option	on.	
	1.	How does a Bar Chart	t represent data?	
		a. Using long rectan	ngular rods placed horizontally	
		b. Using textures an	d pictures to emphasize data	
		c. Displaying data ir	n the form of vertical bars	
			area between the line and the	
	2.	How can you achieve	sorting with specific conditions	in Excel for multiple columns?
		a. Use the default so	orting option	
		b. Utilize the Custon	n Sort feature	
		c. Sort each column	separately	
		d. Combine all colur	mns into one before sorting	
C.	Nu	mber the steps to sor	rt data.	
	Ste	ep Click on H	lome tab.	
		ep Select Sor rt the data in ascending	rt A to Z (for text) or Sort Smalle g order.	est to Largest (for numbers) to
	Ste	ep Select the	e data to be sorted.	:
	Ste	epClick on th	ne Sort & Filter command.	•
				•





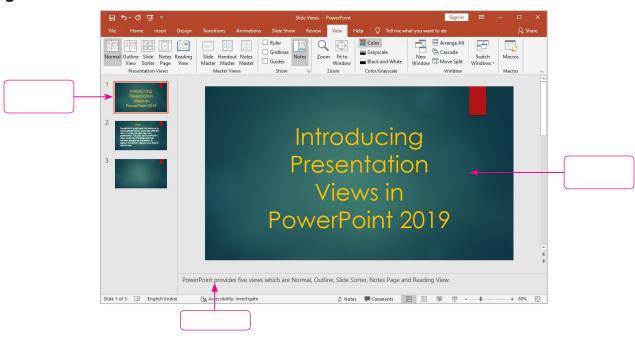


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ADVANCED FEATURES OF POWERPOINT 2016

Chapter-4

A. Identify the Normal view of the presentation and write their names in the boxes given.



- B. Write 'T' for true and 'F' for false.
 - 1. Presentation can be viewed on full screen mode.
 - 2. Video clip once inserted can be deleted by selecting it and pressing Delete key from the keyboard.
 - 3. If you select a new animation from the menu in the Animation group, it will not replace the object's current animation.
 - 4. In Slide Show View, you can modify the presentation while it is running.
- C. Answer the following questions:
 - 1. What is the purpose of the Slide Master in PowerPoint?
 - 2. Give two ways in which you can preview the effect of animation.



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ADVANCED FEATURES OF POWERPOINT 2016

A. Tick (\checkmark) the correct option.

Chapter-

1.	The shortcut key to start t	he slide show	from the curren	t slide is
	a. Alt + F5	b.	Shift + F5	
	c. Shift +F4	d.	Shift + F3	
2.	Slide transition can be def	fined as	of one	slide after another.
	a. Movement	b.	Deletion	
	c. Creation	d.	Transition	
3.	The purpose of animation	is to hold the		of the audience.
	a. attendance	b.	absence	
	c. attention	d.	arrival	
4.	Which tab allows us to impinto our presentation?	ort and use th	e files or objects	from any other application
	a. Home	b.	Insert	

B. Fill in the blanks.

c. View

When we select the Audio on My PC option, the dialog box appears.

File

- To add an action button, we need to click on command from the 2. Illustrations group.
- Normal View shows the current slide, the outline and the 3.
- The allows you to view and manage all of the effects that are on the current slide.

ORA	NGE	
Name:		

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ALGORITHMIC INTELLIGENCE

Chapter-5

Tick (\checkmark) the correct option.

- Which of the following is drawn before creating a program?
 - a. Chart

- b. Scenery
- d. Syntax
- What does a flowchart represent? 2.
 - a. program

c. Flowchart

- b. algorithm

c. symbol

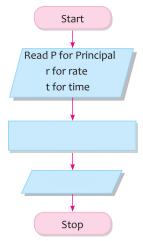
- d. none of these

- Which of the following is not a symbol used in flowcharts?
 - a. Process
- b. Start/Stop
- c. Input/Output
- d. Control

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

- Flowchart uses various symbols to show the process flow of the program.
- In flowcharts, process box is used to show the branches in the process flow.
- Algorithms and Flowcharts are different.

Complete the flowchart to calculate the simple interest.















Teacher's Signature: _

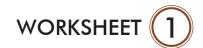




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AL	GOF	RITHMIC INTELLIGENC	Ε			Chapter-5
A.	Fill	in the blanks using the	hints	s given below.		
	Hi	nts: Mind Map, Left to righ	nt, Flo	owcharts, Sequential, Proce	SS	
	1.	An algorithm is a collecti	ion o	f steps in a	mann	er.
	2.	Maintain the direction of	f the	flow from	or top	to bottom.
	3.	ides. thoughts etc.	also a	problem solving technique	that allows	us to organise
	4.	sh	ows	the sequence of instructior	ns in a single	program.
	5.	Flow Line shows the dire	ection	n in which the	flo	ws.
B.	An	swer the following ques	tions	5:		
	1.	How does the flow line in	n a fl	owchart help in understand	ding a proce	ss?
	2.	What is an algorithm?				
	3.			ear start and stop points in		
c.	Ma	tch the symbols with the	eir fu	ınctions used in flowchart	ts.	
	1.		a.	Shows a process or action	step	
	2.		b.	Indicates a question or bra	anch in the p	process flow
	3.		C.	Start and stop points of th	ne flowchart	







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IISI	ING	MAKECODE ARCADE				Chapter-6
_						
Α.		k (\checkmark) the correct option.				7
	1.	Which blocks allow you t	o incorpo		_	
		a. Array blocks		b.	Image blocks	
		c. Music blocks		d.	Function blocks	
	2.	In a game, which block works	vould you	use to	o move a character wher	n the 'A' button is
		a. Motion block		b.	Varialble block	
		c. Controller block		d.	Display block	
	3.	Which blocks allow repe	titive code	exec	ution?	
		a. Variable blocks		b.	Logic blocks	
		c. Loops blocks		d.	Info blocks	
	4.	Where are custom functi	ons define	ed in N	MakeCode?	
		a. Logic blocks		b.	Advanced blocks	
		c. Loops blocks		d.	Math blocks	
	5.	What do text blocks allow	w you to g	enera	te?	
		a. Images		b.	Arrays	
		c. Strings		d.	Buttons	
В.	Wr	ite 'T' for true and 'F' for	false.			
	1.	Scene blocks generate to		for di	alogue.	
	2.	Info blocks provide anima	_			• • • •
	3.	Loops blocks execute cod	e repeated	lly.		• • • • • • • • • • • • • • • • • • • •
	4.	The share button downloa	ads code to	o hard	ware.	• •
	5.	Extension blocks restrict p	rogrammi	ng cap	oabilities.	• • • • • • • • • • • • • • • • • • • •
	6.	Variable blocks store data	during gai	mepla	y.	
	7.	Console blocks create lists	of informa	ation.		• • • • • • • • • • • • • • • • • • • •

Grade: Teacher's Signature: _





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Clas	s:	Section: Date:		Ver. 2.1 🔊
US	ING	MAKECODE ARCADE		Chapter-6
A.	Fill	in the blanks using the hints given below.		
	Hir	nts: Text, advanced, Logic, Scene, Sprite, Math		
	1.	blocks add conditional logic to g	games.	
	2.	perform mathematical operation	ns in code.	
	3.	Use blocks for sprite creation and	d definition.	
	4.	blocks change background imag	ges and colors	
	5.	blocks generate text strings and	dialogue.	
	6.	Use blocks to create custom fund	ctions.	
B.	An	swer the following questions:		
	1.	How do loop blocks help in programming games?		
	2.	What do variables allow in game programming?		
	3.	What do advanced blocks provide in MakeCode?		
	4.	Where are custom functions defined in MakeCode?		
	_			
	5.	How can you debug code in MakeCode Arcade?		









How can you download a MakeCode Arcade game?

What do text blocks allow you to generate?











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INT	ODUCTION TO DVTIION	Chapter-7
INIT	RODUCTION TO PYTHON	
Α.	Γick (√) the correct option.	
,	1. Which of the following functions is	used to take input from the user in Python?
	a. input()	b. print()
	c. float()	d. str()
	·	nmands line by line and gives immediate results?
	a. Script Mode	b. Batch Mode
	c. Interactive Mode	d. Debugging Mode
	3. Which of the following is not a valid	l variable name in Python?
	a. student_name	bage
	c. 1st_name	d. total_score
B. 1	Write 'T' for true and 'F' for false.	
,	1. Python is a compiled language.	•••••
	The input() function automatically correct data type.	converts input data to the
	In Python, a variable can store mult strings, integers, and floats.	iple types of data, including
C 1		aram.
	<pre>Write the output of the following pro # Python program to demonstra</pre>	_
:	# logical and operator	
	a = 10 $b = 10$	
	c = -10	
	if a > 0 and b > 0:	antor than (")
	print("The numbers are great $a > 0$ and $b > 0$ and $c > 0$:	tacer chan o j
	print("The numbers are gre	eater than 0")



else:











print("Atleast one number is not greater than 0")







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INTRODUCTION TO PYTHON

Chapter-7

A. Guess who am I?

- 1. I am an operator used to assign the value of the right expression to the left operand.
- 2. I am an operator used to perform addition between two operands.
- 3. I am a function used to convert a string into a floating-point number.

B. Write the output of the following program:

```
1. #Python program to demonstrate addition python
a = 12
b = 8
sum = a + b
print("The sum of", a, "and", b, "is", sum)
```

```
2. # Python program to demonstrate
  # logical and operator
  a = 10
  b = 12
  c = 0
  if a or b or c:
  print("Atleast one number has boolean value as True")
  else:
  print("All the numbers have boolean value as False")
```







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н	ΙΜΔΙ	N VS MACHINE INTELLIGEN	re		Chapter-8
_			<u>- L</u>		
Α.	HC	k (\checkmark) the correct option.			
	1.	Which is NOT an Al capability?			
		a. Learning		b. Adapting	
		c. Reasoning		d. Socializing	
	2.	Which statement compares hur	nans and	d machines?	
		a. Only humans can converse		b. Only machines have me	emory
		c. Both can recognize patterns		d. Only humans can learn	
	3.	Which activity is easier for mach	nines tha	an humans?	
		a. Making friends		b. Identifying objects	
		c. Expressing emotions		d. Jumping over obstacles	
	4.	What allows machines to conve	rse with	humans?	
		a. Natural language processing	9	b. Image recognition	
		c. Neural networks		d. Deep learning	
В.	Fill	in the blanks using the hints g	iven bel	low.	
	Hi	nts: Speed, Social, Algorithms, Ac	lapting, l	Process, Natural language pr	ocessing
	1.	in machir	ies enab	le learning from data.	
	2.	Machines can	info	ormation faster than humans	•
	3.	Humans are better at		to new situations.	•
	4.	Machines lack	skil	lls seen in humans.	•
	5.	allows ma	achines t	to hold conversations.	•
	6.	Machines surpass humans in			•



















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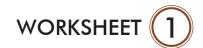
Chapter-8

HUMAN VS MACHINE INTELLIGENCE

١.	Fill in the blanks using the hints given below.					
	Hints: Faster, New, Algorithms, Brain, Machines, Language, Machine					
	1.	The is the seat of human intelligence.				
	2.	Al aims to develop intelligent				
	3.	learning enables AI systems to improve with experience.				
	4.	Humans use to converse while machines use NLP.				
	5.	in AI systems allow pattern recognition.				
	6.	Machines calculate than humans.				
	7.	Humans easily adapt to situations.				
3.	Ans	swer the following questions:				
	1. What enables machines to mimic human intelligence?					
	2.	Where does artificial intelligence in machines come from?				
	3.	What allows machines to converse with humans?				
	4.	Which cognitive tasks are easier for machines?				
	5.	What are some forms of intelligence in humans?				
	6.	How do machines and humans differ in terms of information processing?				







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AI .	TEC	CHNOLOGIES		Cha	oter-9
A.	Tic	k (\checkmark) the correct option.			oter-9
	1.	Which stage analyzes the a	udio in spe	ech recognition?	
		a. First		b. Second	
		c. Third		d. Fourth	
	2.	Which technology can Siri	and Alexa u	ise?	
		a. Data mining		b. Face recognition	
		c. Speech recognition		d. Image processing	
	3.	Which application does NC	T use speed	ch recognition?	
		a. Alexa		b. Siri	
		c. Snapchat		d. Google Assistant	
	4.	What does Al improve in O	CR systems	?	
		a. Speed		b. Cost	
		c. Accuracy		d. Format	
	5.	How are characters examin	ed in OCR?		
		a. Syntax		b. Patterns	
		c. Grammar		d. Context	
B.	An	swer the following questio	ns:		
	1.	What does OCR stand for a	nd what do	es it do?	
					• • •
	2.	How does speech recogniti	on work?		• •
					• • •
	3.	What enables virtual assista	ants like Ale	exa to understand commands?	• •
	-•				• •
		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	

Grade: Teacher's Signature:





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Chapter-9

AI TECHNOLOGIES

A.	Fill	in the blanks using the hints given below.					
	Hir	Hints: Woody Bledsoe, Accuracy, Converts, Facial, Applying, AI, Alexa					
	1.	systems understand voice commands.					
	2.	Voice assistants like use speech recognition.					
	3.	Snapchat uses face recognition for filters.					
	4.	introduced the face recognition concept.					
	5.	OCR improves of digitizing text.					
	6.	Speech recognition spoken words to text.					
	7.	Face recognition relies on patterns.					
В.	Wr	ite 'T' for true and 'F' for false.					
	1.	Speech recognition cannot convert audio faster than typing text.					
	2.	Siri and Alexa use speech recognition technology.					
	3.	Face recognition is not used for biometric authentication.					
	4.	Al worsens the accuracy of speech recognition.					
	5.	The concept of face recognition was introduced in the 1960s.					
	6.	Snapchat uses image recognition to apply filters.	•••••				
	7.	Voice assistants like Siri use speech recognition.	• • • • • • • • • • • • • • • • • • • •				







Nam	ie:							
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Clas	s:	Section:	Date:		er. 2.1 🔊			
TYPES OF ROBOTS Chapter-10								
A. Tick (✓) the correct option.								
	 Which of the following robots are used for manufacturing purposes? 							
		a. Industrial robots		b. Collaborative robots				
		c. Service robots		d. Military robots				
	2. Which of the following robots are used for dangerous or repetitive tasks?							
		a. Industrial robots		b. Collaborative robots				
		c. Service robots		d. Military robots				
	3.	3. Robotic lawn mower is an example of which type of robot?						
		a. Industrial robots		b. Collaborative robots				
		c. Service robots		d. Military robots				
	4.	Aibo is an example of which type of robot?						
		a. Toy Robot		b. Military robot				
		c. Security robot		d. Service robot				
	5.	Which of the following robots can float on water?						
		a. A-PUFFER		b. Lego				
		c. Aibo		d. BRUIE				
В.	De	fine the following:						
	1.	Humanoid	2. Cobots					
	3.	Military robots	4. Industri	al robots				
C.	Sh	ort answer type questio	ns.					
	1.	Who created Aibo?						
	2.	2. Name 2 Mars rovers launched by NASA.						



3.

4.

5.



Name any two types of robots.





Name any two applications of humanoids.



State any one difference between a human and a humanoid.



Teacher's Signature: _





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TYPES OF ROBOTS Chapter-10									
A. Fill in the blanks.									
	1.	robot is a robot s	system which used for manufact	uring purposes.					
	2.	A robot is a type of robot intended to physically interact with humans in a shared workspace.							
	3.	Arobot is a robot that is designed to perform tasks that a either time consuming, dangerous or repetitive.							
	4.	Security robots such as have a night-vision-capable wide-angle camera that detects movements and intruders.							
	5.	Autonomous precision seeding co	ombines robotics with	• • • • • • • •					
B.	B. Write 'T' for true and 'F' for false.								
	1.	Monitoring huge fields of crop is	a small job.						
	2.	A medical robot is a robot used in	the medical sciences.						
	3.	Robots does not play an importar programmes.	nt role in space and research						
	4.	The BRUIE robot can float on the wunderside of an icy surface while	_	a					

C. Assertion and reasoning based question.

Assertion(A): A humanoid robot is a robot with its body built to resemble the human body.

Reason(R): In general, humanoid robots have a torso, a head, two arms, and two legs.

1. Both A and R are correct and R is the correct explanation of A.

Lego and Furby were military robots introduced in 1998.

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

