



Name:				
Roll No:			TRA	CKPAD
Class:	Section:	Date:		PRO Ver. 5.1 •
NUMBER	SYSTEM			Chapter-1
A. Tick (√	) the correct option.			
1. Repe	eated division by 2 is do	ne for converting		
a. De	ecimal to Octal		o. Decimal to Hexadecimal	
c. De	ecimal to Binary		d. None of these	
2. Wha	t is the decimal number	r of binary number	101100 <sub>2</sub> ?	
a. 44	4	l l	o. 55	
c. 66	5		d. 33	
3. Wha	t is the binary number o	of decimal number	· 980 <sub>10</sub> ?	
a. 11	11101010	l	o. 1111010100	
c. 11	111010101		d. 1011010100	
4. Deci	mal number system is a	lso known as		
a. Ba	ase-10 system	l l	o. Base-2 system	
c. Ba	ase-8 system		d. Base-16 system	
B. How is	data stored in compu	uter memory?		
C. What a	re the different types	s of number syste	em?	
				•
				•













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# **NUMBER SYSTEM**

A. Fill in the blanks:

**Chapter-1** 

1.	is also known as base-2 number system.
2.	Binary number system has only two symbols or digits
3.	A number system made up of eight digits from 0 to 7, is known as the number system.

4.	displays	16 digits and	d symbols
----	----------	---------------	-----------

5	 اد عادم	known	ac had	10_م	number	cyctom
٦.	 15 0150	KIIOWII	as Das	6-10	Hullibei	System

# B. Convert $(10111011)_2$ to a decimal number

Position Digit	Position Value	Multiplication of Position value and Position Digit

Sum of the products =			
-----------------------	--	--	--













LASS 7

Name:

Roll No:

Class: Section: Date:

TRACEPAD PRO Ver. 5.1

**Chapter-2** 

### ADVANCED FEATURES OF EXCEL

## A. Match the following:

- 1. Filtering data
- 2. Ascending Order
- 3. Custom Sorting
- 4. IF function
- 5. SUM function

- a. Lowest to highest
- b. Sorting by multiple columns
- c. is used to check a condition to be evaluated as
  True or False
- d. used to calculate the total of a given set of value
- e. seeing the important data
- B. Prepare a list of all the stationery items along with rate list and find out the quantity required by you. The value you have to spend on each item is mentioned in To Value column.

4	A	В	C	D	E
1	Stationery Items	Rate	Quantity Required	Amount	To Value
2	Pen	40		0	320
3	Notebook	120		0	720
4	Pencil	50		0	250
5	Eraser	5		0	100
6	Sharpner	5		0	100
7	Ruler	5		0	100
8	Drawing sheets	90		0	540
9	Ruled sheets	80		0	480





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ADVANCED	FEATURES OF	EXCEL	Chapter-2
A. Fill in the	blanks.		
1. Sort & F	Filter command is pre	esent under the tab.	
be disp		arguments into consideration: the dition is true, and the value to be dis	
3	key combina	ation is used to filter the data.	
4. Conditi	onal Formatting con	nmand is present under	group.
B. Write T fo	or true and F for fals	e statements.	
1. Sorting	means arranging th	e data in an unordered sequence.	
2. In ascer	nding order, sorting i	is done from A to Z.	
3. Excel al	lows us to do sorting	g on a range of selected cells.	
4. Custom	n sort allows us to ad	d the levels of sorting.	
C. Differenti	iate between the fo	llowing:	
Sorting da	ata	Filtering data	
D. Answer th	ne following question	ons:	
		ways of sorting columns?	
		2	
Z. HOW IS	sorting beneficial to	us:	•••
			• • • • • • • • • • • • • • • • • • • •







Name:					
Roll No:				TRACCPA	
Class:	Section:	Date:		PRO Ver. 5.1	0
MORE ON K	RITA			Chapter-3	
A. Tick (✓) the	e correct option.				CLASS
1. What is t	the function of the "Tr	ansform Tool"	?		
a. To cro	op the image		b. To rotate, scale,	or move elements	
c. To pai	int		d. To erase layers		
2. In Krita,	which layer type supp	orts transpare	ency?		
a. Vecto	r Layer		b. Filter Layer		
c. Paint	Layer		d. Background Lay	'er (	
3. Krita allo	ows working with mul	tiple layers to	:		
a. Flatte	n images		b. Organise conter	nt separately	
c. Expor	t only background		d. Save memory		
4. To zoom	in and out of the can	vas, which key	ys are commonly us	ed?	
a. Ctrl +	Mouse Scroll		b. Shift + Click		
c. Alt+	Z		d. Spacebar		
B. Competen	cy-Based Questions.				
1. Aman wa	ants to create a mirror	reflection eff	ect in Krita. Which to	ool or feature can help h	im?
2. While pa	ainting, Meera wants t	o view her ca	nvas without distrac	ctions. What should she	do?
3. You rotat	ted your canvas while s	ketching. Hov	v can you reset it bac	k to the original orientati	on?
C. Rectify the	Given Statements.				• • •
1. Canvas-c	only mode hides only	the color pale	ette.		• • •
2 To draw	in Krita, we must use t	the Move Tee			• • • • • • • • • • • • • • • • • • • •
2. 10 draw	in Krita, we must use	ine wove 100	i <b>.</b>		• • •
		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •





Name:					
Roll No:				TRACK	PAD
Class:	Section:	Date:			RO Ver. 5.1
MORE ON	KRITA			Cha	apter-3
A. Tick (√) t	he correct option.				
1. Which	key is used with the	Move Tool to d	uplic	ate a layer content?	
a. Ctrl			b.	Alt	
c. Shif	t		d.	Tab	
2. Canvas	Rotation is helpful f	for:			
a. Cha	nging the color		b.	Drawing at different angles	
c. Incr	easing contrast		d.	Flipping layers	
3. The lay	ver stack in Krita is vi	sible in:			
a. Tool	lbar		b.	Docker	
c. Mer	nu Bar		d.	Navigation Panel	
4. Krita's į	primary function is:				
a. Wor	d processing		b.	3D modeling	
c. Digi	tal painting		d.	Video editing	
B. Compete	ency-Based Questio	ns			
<ol> <li>Krita cr project</li> </ol>	_	your work. Wha	it file	recovery feature might help you re	store your
2. Write t	he steps to create a	new document	and	add a new paint layer in Krita.	
C. Rectify th	ne Given Statement	ts.			::
1. The Se	lection Tool helps to	paint the canv	as.		• •
					• •
2. Krita fil	les are saved by defa	ult in JPG form	at.		• •
	• • • • • • • • • • • • • • • • • • • •				• •

















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			TRACKPAD
Class:	Section:	Date:	PRO Ver. 5.1 >

### LISTS AND TABLES IN HTML5

**Chapter-4** 

#### A. Write the output of the following HTML code:

- type="a">
- Bread
- Butter
- Jam

#### B. What would be the output of the following HTML statements?

- English</1i>
- Math
- Science

### C. Read the HTML code and answer the following questions:

- <! DOCTYPE html>
- <html>
- <head>
- <title>Learning HTML</title>
- </head>
- <body>

This HTML page contains text and image.

- <img src="C: /myfolder/image.jpg" alt="image" height="144" width="100">
- </body>
- </html>
- 1. What is the text that is displayed in the title bar of the window?
- 2. What is the size and colour of the text that is displayed on the web page?
- 3. What is the location of the image used in the web page?
- 4. What is the height of the image used in the web page?















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# LISTS AND TABLES IN HTML5

**Chapter-4** 

#### A. Write the HTML code for the following outputs:

- 1. Mobile Operating System
  - Android OS
  - Windows phone OS
  - Symbian
  - iOS
- 2. Mobile Manufacturer
  - Samsung.
  - Apple.
  - Huawei.
  - Nokia.

#### B. Write the HTML code to display the following table:

Name of the student	Height	Weight
Aadya Kaushal	5 ft 4 in	45 kg
Shweta Kaushal	5 ft 2 in	50 kg
Seema Sharma	5 ft 7 in	65 kg
Ashana Sardana	4 ft 9 in	49 kg

## C. What are the attributes associated with Table tag?







Name:								
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Class:	Section:	Date:					r. 5.1 🔊	
IMAGES, LINK	(S, AND FORM	S IN HTML5				Chapte	er-5	7 22
A. Tick (✓) the c	orrect option.							5
<ol> <li>To create a</li> <li>a. </li> </ol>	link, we useb.	tag.	) c. ·	<a></a>	d.	<iframe></iframe>		
2. The process	s of linking a parti	cular section of t	he sam	e web pag	ge is called	l	• • • • •	
a. interlinl	king		b. i	intralinkir	ng			
c. cross-lir	nking		d. I	None of tl	hese			
3	allow us to di	vide the webpag	e into s	several inc	dependent	parts or pa	ines.	
a. Form	b.	Link	c. I	Frames	d.	Images		
4	provides an e	asy way to collec	t requir	red inform	nation fron	n the site vi	sitors.	_
a. Image	b.	Frames	c. I	Links	d.	Form		
5	input control	masks the chara	cters as	soon as t	he user en	ters them.		
a. Single li	ine b.	Password	c. 1	Multi line	d.	Radio		
B. Differentiate	between the foll	owing:						
1. Checkbox			Radio	o Button				
						• • • • • •		
						• • • • • •		
						0 0 0 0 0 0		• •
2. Submit But	ton		Reset	t Button				• •
						0 0 0 0 0 0		• •
						• • • • • •		• •





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Class:	Section:	Date:	PRO Ver. 5.1 •
			1

		Chapter-5
IM	AGES, LINKS, AND FORMS IN HTML5	Cliuptel 3
A.	Identify the tag or attributes used:	
	1. to allow user to enter multiple lines.	<b>'</b>
	2. to embed video in an HTML document.	
	3. to control the height of the iframe.	
	4. to send all the form data to the server.	
В.	Answer in 1-2 sentences.	
	1. What is the use of a Form in HTML?	
	2. What does the a:active property signifies?	
	3. How can we create clickable buttons in HTML?	



















Name:							
Roll No:					TRA	CCPAD	
Class:	Section:	Date:				PRO Ver. 5.1 🔊	
DEVELOPIN	NG MOBILE APP	5				Chapter-6	ss 7
A. Tick (✓) th	ne correct option.						CLASS
1. Which c	of the following is a f	ree app develo	pm	ent tool provided by	y Google?		
a. App	store		b.	App Inventor			
c. Play	store		d.	Duolingo			
2. Which v	view in the App Invent	tor contains all t	hec	components required	d to desigr	n an application	?
a. Desig	gn		b.	Block editor			
c. Tool	editor		d.	None of these			
3. Project	Designer window is	divided into		panes.			
a. One			b.	Two			
c. Three	e		d.	Four			
4. Which p	pane shows list of all	the componer	nts a	dded to the screen	in hierarc	hical view?	
a. Palet	tte pane		b.	View pane			
c. Com	ponents pane		d.	Properties Pane			
	window, nd specify the funct	•		•	ng buttons	s, images or tex	t
a. Proje	ect Designer		b.	View pane			
c. Com	ponents pane		d.	Properties Pane			
B. Answer Br	riefly.						• • •
	o you mean by MIT A	App inventor?					• • •
0 0 0 0 0 0 0 0 0 0							• • •
2. What is	the purpose of Bloc	k Editor?					• • •
	p p p p p						

















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Ro	l No:	TRACKPAD
CI	ass: Date:	PRO Ver. 5.1 <b>3</b>
D	EVELOPING MOBILE APPS	Chapter-6
A	Fill in the blanks.	
	1 is used to create applications for smart phor	nes.
	2. An block that will handle what happens wh is clicked.	en the button on your app
	3 contains all the predefined blocks in the app	olication.
	4. view is the place where we combine blocks	to execute an application.
В	Answer Briefly.	
	1. Write about the two main windows of App Inventor. What do the	ey do?
	2. How do we test an app while we are developing it in App Invent	or?
	3. What is the use of Event Handler block?	
	5. What is the use of Event Hamaler block.	
	4. How would you build and test apps in the App Inventor if you do	on't have a phone?







Name:						
Roll No:				TRA	CCPAD	
Class:	Section:	Date:			PRO Ver. 5.1 🔊	
GOOGLE A	PPS				Chapter-7	LASS 7
A. Tick (✓) th	he correct option.					CLA
1. Which o	of the following is an or	nline storage	e too	ol provided by Google?		
a. Goog	gle Maps		b.	Google Drive		
c. Gma	iil		d	Google Meet		
2. It is a we interest		nables us to	dis <sub> </sub>	olay maps by searching an ad	ldress or place of	f
a. Goog	gle Drive		b.	Google Calendar		
c. Goog	gle Maps		d.	None of these		
3	is an online version	of Microsoft	Pov	verPoint developed by Goog	le in 2006.	
a. Goog	gle Slides		b.	Google Sheets		
c. YouT	ube		c.	Google Meet		
4. Which	of the following is a spr	eadsheet ap	plic	ation offered by Google?		
a. Exce	ا		b.	Google Wokspace		
c. Gma	il		d.	Google Sheets		
	is an app that auton ot on our smartphones	•	cks ι	up and organises our photos	and videos that	t
a. Goog	gle Photos		b.	Google Classroom		
c. Goog	gle Contact		d.	None of these		• • •
B. Answer in	n one or two lines.					• • •
1. What aր	pps does Google Works	space includ	e?			• • •
						• • •
2. How Go	oogle Workspace is usef	ful for educa	tior	n purposes?		• • •
						• • •



















Name:						
Roll No:				TRAC	KPAD	
Class:	Section:	Date:			PRO Ver. 5.1	
GOOGL	E APPS				Chapter-7	1
A. Fill in	the blanks.					5
	ows users to create for	•		are offered by	Google whic	:h
	keeps trace in the responding the responding to	ack of our personal apest of our team.	opointments and a	also helps us sy	ynchronise o	ur
3. Gc	ogle Translate is a	service	offered by Google			
4. Go	ogle gives you	GB of free o	loud storage.			
5. Go	ogle has developed a	number of web-bas	ed applications th	nat are collecti	ively known	as
	• • • • • • • • • • • • • • • • • • • •					
B. Answ	er Briefly.					
1. Wr	ite any two features of	Google Drive.				
						Þ
						•
2. Ho	w can we protect data	in Google Sheets?				
						•
						•
3. WI	at is Google Calendar	used for?				
						• •
4. Wr	ite the reasons for cho	osing cloud comput	ing.			• •









Name	:							
Roll N	o:				TRA	ACKPA	D	
Class:	Section	:	Date:			PRO Ver.		
CYB	ER SECURITY					Chapte	r-8	ss 7
A. Ti	ck ( $\checkmark$ ) the correct $\alpha$	ption.						CLASS
1.	Which of the follow	ving is the pra	actice of p	orotecting	computers from malic	cious attacks	5?	
	a. Phishing			b.	Cyber Security			
	c. Hacking			d.	Stalking			
2.	Which of the follo e-mails?	wing is the i	llegal pra	ctice of o	btaining sensitive info	ormation th	rough	
	a. Plagiarism			b.	Phishing			
	c. Spamming			d.	None of these			
3.	Which of the follow own benefits?	ving refers to	stealing o	one's idea (	or invention of others	and use it fo	r their	
	a. Theft	b. H	lacking	<b>c.</b>	Plagiarism d.	Phishing		
4.	Which of the fo	_		the rule	es that govern ou	r actions	when	
	a. Cyber Security			b.	Cyber Ethics			
	c. Cyber Law			d.	None of these			
B. A	nswer in one or two	o lines.						
1.	What is cyber secu	rity?						
								• • •
2.	Write about any tw	o tips to avoi	id phishin	ıg?				• • •
								• • •
3.	Define Plagiarism.							• • •
								• • •





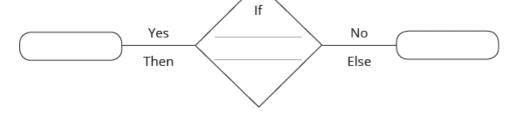
Nan	ne:					
Roll	No:				TRA	CCPAD
Clas	s: Sec	tion:	Date:			PRO Ver. 5.1 🔊
CY	BER SECURITY	Y				Chapter-8
Α.	Fill in the blanks.					
	making these co			-	software, mo	vies, music and
	2. Cyber security is	s also known a	as	• • • • •		
	3. The online or In	ternet based	illegal acts are c	alled		
4	1. Hacking is the a activities is calle		-	uter system and t	he person in	volved in these
	intellectual crea	•	he exclusive rig	hts given by the g	overnment t	o the owners of
В.	Answer Briefly.					
	I. What is NATION	AL CYBER SEC	CURITY POLICY,	2013?		
•	2. Mention some o	of the ways to	avoid hacking.			
	• • • • • • • • • • • • • • • • • • • •					
:	3. What do you un	nderstand by (	Cyber Security?			::







Name:				
Roll No:				TRACKPAD
Class:	Section:	Date:		PRO Ver. 5.1 🔰
Algorithm	nic Intelligence			Chapter-9
A. Tick (√) tl	he correct option.			
1. Which	of the following uses sp	ecial symbols	to represent each st	tep?
a. Dat	a		b. Flowchart	
c. Rea	soning		d. Algorithm	
2. Which	of the following is the f	undamental fo	orm of the programr	ning data?
a. Rea	soning		b. Binary code	
c. Cor	nditions		d. Data	
3. Which	of the following are use	ed in a prograr	n to instruct the con	nputer to make a decision?
a. Cor	nditional statements		b. Algorithm	
c. Bina	ary code		d. Flowchart	
B. Fill in the	blanks using the hint	s given belov	v:	
Hints: Ba	ase, Information, Acqui	res, Process		
_	iters store andal 1s and 0s.	data	a and information us	ing binary code in the form
2. An algo	orithm and a flowchart	are the	to write	a program.
3. Process	sing of	is very imp	ortant to write an alo	gorithm.
4. Our bra	ain, ŗ	processes, and	stores information.	
C. What wou	uld happen if we ha	d to live in a	world without wate	er?

















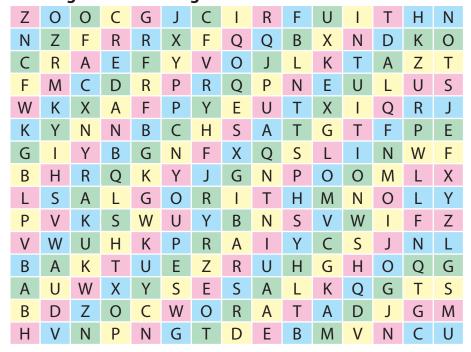


Name:			
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Class:	Section:	Date:	PRO Ver. 5.1 •

# Algorithmic Intelligence

**Chapter-9** 

A. Find six words related to algorithmic intelligence.



B. Answer the following questions:

1.	What are conditions in a program?
2.	Write an 'if' condition to display "Happy Birthday" if it is 2nd March today otherwise display "Thursday".
3.	Write the if-then-else condition to check if a number is divisible by 5 or not.





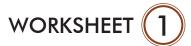












Name	<b>:</b> :								
Roll N	lo:					TRA	ACKP/	75	
Class:	Section	:	Date:				PRO Ve		
TOK	ENS AND DATA	TYPES II	N PYTHO	<u> IN</u>			Chapte	r-10	55 7
A. Ti	ick (√) the correct o	option.							CLASS
1.	i	is not a logic	cal operato	r.					
	a. or	b.	not	C.	and	d.	is		
2.		operator che	ecks for the	e values on	either side	e of operato	or are not e	qual.	
	a. !=	b.	==	<b>c.</b>	>	d.	is not		
3.	x += 3 means								
	a. Increment the	values with	the value s	pecified af	ter = symb	ool.			
	b. Decrease the va	alues with th	ne value sp	ecified aft	er = symbo	ol.			
	c. Assign value to	the variable	e.						
	d. Value of a varia	ble is specif	ied after =	symbol.					
4.	If $x = 5$ , then print(	x > 4 and $x < 4$	< 10) will re	eturn					
	a. False	b.	True	<b>c.</b>	Not clear	d.	Unknown		
B. A	nswer Briefly.								
1.	Define Python.								
									• • •
2.	What is the differer	nce betweer	n string and	d list?					• • •
									• • •
									• • •
									• • •

















WORKSHEET (2

			WORKSII				
Nan	ne:						
Roll	No:				TRA	CKPAD	
Clas	s:	Section:	Date:			PRO Ver. 5.1 >	
TO	KENS AND	DATA TYPE	S IN PYTHON	l		Chapter-10	
<b>A.</b> I	Fill in the bla	nks.					
	1	are the I	reserved memor	y locations where w	e can store v	alues.	ı
,	2	errors aı	re related to the	logic of the program	ı <b>.</b>		
:	3	operato	or assigns the val	lue of operand on t	he right side	to the left sic	le

4. Each variable in Python is associated with some ......

B. Answer the following questions:

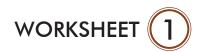
5. A ..... is just like a list.

operand.

1.	Explain the Python operators by giving one example each.
2	Montion the rules to be followed while declaring a variable in Dython
2.	Mention the rules to be followed while declaring a variable in Python.
2.	Mention the rules to be followed while declaring a variable in Python.
2.	Mention the rules to be followed while declaring a variable in Python.







Name:				
Roll No:			TRA	CKPAD
Class:	Section:	Date:		PRO Ver. 5.1 🔊
FUTU	RE OF ARTIFICIAL IN	TELLIGENCE		Chapter-11
A. Tick	$x(\checkmark)$ the correct option.			
1. V	What of the following is the	characteristics of a su	stainable future smart ci	ty?
a	. Provides better services	and solves problems	of the residents	
b	o. Reduces inconvenience			
C	. Improves social and ecor	nomic quality		
C	d. All of these			
	Which of the following is a type $\mathbf{r}$ froad, traffic level and spec		-enabled devices to mon	itor the condition
a	. Smart City	<b>b</b>	. Automated Transport	ation
C	. Traffic Management	d	. Smart Highway	
B. Ans	wer the following question	ons:		
	What modern, innovative to coording to smart city conc		e used to develop the o	city of the future
2. V	Vill AI replace humans in the	e workplace?		
				•••
3. V	Vrite about some real world	l application of Al.		•••
		•		••
				••
•		• • • • • • • • • • • • • • • • • • • •		• •

















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Roll No:			TDACCDAD
Kon i vo.			TRACKPAD
Class:	Section:	Date:	PRO Ver. 5.1 🔊

# **FUTURE OF ARTIFICIAL INTELLIGENCE**

Chapter-11

Α.	Answer	the	toll	owing	questions

1.	Write about the common terms of AI you know.
2.	How will AI change the future?
3.	Why do we need Artificial Intelligence?
4.	How is Al helping automated transportation systems?













