CLASS XII INFORMATICS PRACTICES- NEW(065) FIRST PRE BOARD 2019-20

Marking Scheme

MAX. MARKS- 70

```
TIME- 3 Hrs.
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		Section: A	
Q1	А	Predict the output of following program-	1
		import numpy as np	
		arr=np.array([21,22,23,24,25,26,27,28,29,30])	
		print(arr[4:9])	
		Ans-	
		[25 26 27 28 29]1 mark	
	В	Consider the following array ary-	1
		1 2 3 4 5	
		6 7 8 9 10	
		11 12 13 14 15	
		16 17 18 19 20	
		Write the appropriate numpy method get the following resultant arrays by following	
		command-	
		Ar1,Ar2,Ar3=(ary,[2,5],axis=1) Resultant Array-	
		Ar1-[[1 2 3 4 5] Ar2-[[1 2]	
		[678910] $[67]$	
		[11 12 13 14 15] [11 12]	
		[16 17 18 19 20]] [16 17]]	
		Ar3-[[3 4 5]	
		[8 9 10]	
		[13 14 15]	
		[18 19 20]]=	
		A	
		Ans- Ar1,Ar2,Ar3= np.split (ary,[2,5],axis=1)1 mark	
		Ar1,Ar2,Ar5– np.spint (ary,[2,5],axis–1)1 mark	
	С	Mr. Gupta run a manufacturing unit of BP Machines. He wants to draw a line chart	1
		using quantities of machines produced per month to get an idea of production growth	
		in various months. Complete the code to perform following operations-	
		i. To plot a line chart using the quantities produced per month. Statement1	
		ii. To give y-axis label as 'Total Production'. Statement	
		2	
		import matplotlib.pyplot as pl	
		Quantities=[36,37,32,31,35,39]	
		Month=['Jan','Feb','Mar','Apr','May','Jun'] <u>pl.plot(Month,Quantities)</u> Statement11/2 mark	
		pl.ylabel("Total Production") Statement 21/2 mark	
		pl.xlabel("Month")	
		pl.show()	
		pi.sitew()	
		OR	
		Ms. Sujata, a class teacher want to plot a bar graph for the name of days on x-axis and	
		total students present on those days on y-axis to get the average weekly attendance.	

		Complete the code to perform the following-	
		i. To plot the bar chart in statement 1	
		ii. To show the chart in statement 2	
		import matplotlib.pyplot as pl	
		Days=['Mon','Tue','Wed','Thurs','Fri','Sat']	
		Present=[36,37,32,31,35,39]	
		pl.bar(Days,Present) Statement 11/2 mark	
	_	pl.show() Statement 21/2 mark	
	D	Write the output of the following code-	2
		import numpy as np	
		arr=np.array([[0,1,2,3,4],	
		[6,7,8,9,10],	
		[11,12,13,14,15],	
		[16,17,18,19,20]])	
		res=arr-6	
		print(res)	
		[[-6 -5 -4 -3 -2]	
		[0 1 2 3 4]	
		[56789]	
		[10 11 12 13 14]] 1/2 mark for each correct row	
Е		Create the given box plot from the following set of data:	2
		34,18,100,27,54,52,93,59,61,87,68,85,78,82,91	
		with the orientation to horizontal.	
		20 40 60 80 100	
		Ans-	
		import matplotlib.pyplot as pl	
		a=[34,18,100,27,54,52,93,59,61,87,68,85,78,82,91]	
		pl.boxplot(a,vert=False)	
		pl.show()2 mark	
		*or any other possible correct code.	
	F	What is the difference between Numpy Array and Python Lists? Give any two	2
	'	differences2 mark for correct difference.	2
	~		2
	G	An ndarray X contains the following values:	3
		[[11,12,13,14,15]	
		[16,17,18,19,20]	
		[21,22,23,24,25]	
		[26,27,28,29,30]]	
		What will be returned by following statements-	
		a. print(X[0:3,0:3]) b- print(X[2:0:-1,2:0:-1])	
		Ans- a- b-	
		[[11 12 13] [[23 22]	
		[21 22 23]]	
		1.5 mark for each.	

		Or	
		Given a list L=[7,8,9] and an ndarray having elements 7,8,9 . what will be the result	
		produced by-	
		a. L*4 b. L+L c. N*4	
		Ans-	
		a- [7, 8, 9, 7, 8, 9, 7, 8, 9, 7, 8, 9]	
		b- [7, 8, 9, 7, 8, 9]	
		c- [28 32 36]	
		1 mark for each.	
Q2	А	Mr. Sinha want to sort a dataframe as per the column "Number_of_Participants" in	1
		decreasing order of values. But he is not getting the desired result. Identify the error and rewrite the code.	
		DF.sort_values(by=["Number_of_Participants"])	
		Ans-	
		DF.sort_values(by=["Number_of_Participants"], ascending=False) 1mark	
	В	Consider a dataframe df having 3 columns in it as population, avg_income and	1
	Б	per_capita_income. Write the code to add a new column namely "Density" with the	1
		value 1000 for all rows.	
		Ans- df['Density']=1000 1 mark	
	С	method in Pandas does not raise errors for multiple enteries of a row, column	1
		combinations.	
	D	Ans- pivot_table() 1 mark A dataframe Student is consisiting the details of 10 students as per following criteria-	1
	U	Rollno, Name, Gender, Age(same order in dataframe).	1
		Write the code(command) to display only first 5 records and only Name, Gender and	
		Age.	
		Ans- df.iloc[0:5,1:4]1 mark	
		*or any other possible correct code.	
	Е	What is the difference between the function apply() and applymap()?	2
		Ans-	
		apply() is a series function, so it applies to one row or one column.	
		applymap() is an element function, so it applies to each individual element	
		separately.	
		Ex- np.mean([333,666,444]) would yied 481.0	
		np.mean(333) would yield 333.0	
		1 mark for each function definition.	
	F	Write a python code to create a dataframe with appropriate headings(Empcode,	2
		Name, Age) from the data given below.	-
		['EC101','Jakson',35], ['EC102','Peter',42], ['EC107','Robert',37], ['EC109','Smith',54],	
		Or	
		.	1
		Write a python code to create a dataframe with appropriate headings(Sport,	

	2 MARK FOR CO	ORRECT CODE.				
G	A dataframe TD	stores data abo	ut tourists	to a visiting pla	ce. First few rows of the	3
	dataframe are s	shown below-				
	Year	Month	Tourists			
	0 2019	Jan	240			
	1 2019	Feb	220			
	2 2019	Mar	154			
	3 2019	Apr	160			
	4 2019	,	455			
	-	e above datafram			e following-	
	i.	Compute total t	•	•		
	ii.	Compute average	ge tourists	per month.		
4	Ans-	winet table/ind.				
		.pivot_table(inde			,aggfunc='mean')	
	II. ID.	pivot_table(inde	ex- rear,v	alue- Tourists,	,aggrund- mean j	
	1.5	mark for each co	ommand.			
	210			Or		
				-		
		Name		Deptt	Salary	
	0	Sunita Sh		Sales	47600	
	1	Sudhir Ra		Accounts	27000	
	2	Vinod Go		Research	41900	
	3	Manoj Sir	ាgh	Operations	67000	
	4	Jyoti S.		Sales	45600	
	5	Chetan Si		Research	43700	
	6	Martin M		Accounts	32000	
		dataframe DF ar			llowing-	
		play the departm		•	io calary	
	II. DIS	play the departm	ient-wise t	otal and averag	e Salary.	
	Ans-					
		pivot_table(inde	ex='Deptt'.	value='Salarv'.	.aggfunc='sum')	
4		• • •	• •	• •	,aggfunc=['sum','mean'])	
	15	mark for each co	ommand.	-		
	1.5					
	1.5					
,	1.5					
		put of the follow	ing code-			3
H		•	ing code-			3
H	Predict the out	as np	ing code-			3
H	Predict the out import numpy a import pandas	as np	-	ajeev','Ritu']),		3
H	Predict the out import numpy a import pandas dict={'Name':po 'Age':pd.Series(as np as pd d.Series(['Anu','A [[26,25,24,31]), 'S	bhishek','R		,55])}	3
H	Predict the out import numpy a import pandas dict={'Name':pd 'Age':pd.Series(df=pd.DataFran	as np as pd d.Series(['Anu','A [[26,25,24,31]), 'S ne(dict)	bhishek','R Score':pd.S		,55])}	3
H	Predict the out import numpy a import pandas dict={'Name':pd 'Age':pd.Series(df=pd.DataFran	as np as pd d.Series(['Anu','A [[26,25,24,31]), 'S	bhishek','R Score':pd.S		,55])}	3

				ontents						
			Name		Score					
		0	Anu		87					
			hishek		67					
			Rajeev		89					
		3	Ritu		55					
		Name	4							
		Age	4							
		Score								
		dtype	: int64	1						
		2 mark f	or datafr	ame disp	olay. 1 mar	rk for count	:() functio	on display		
	Ι		Cls1				Cls			4
			Eng	Maths	Hindi		Eng	Maths	Hindi	
		0	43	42	40	0	32	53	31	
		1	23	41	53	1	54	21	65	
ľ		2	65	57	62	2	31	73	36	
ľ		3	12	14	17	3	21	51	43	
							<u> </u>	51		
		i. ii. iii. iv.	To ad To rei	d Cls1 an name col	umn Hindi	i as Science		wo and fro	om 3 to Three.	
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		Import n Import p Cls1=pd. Cls2=pd. 1 Ma i. ii. iii. iv.	andas as DataFrar DataFrar rk print(Cls1.r Cls1.r	np pd ne({'Eng' (Cls1.sub (Cls1.add rename(cl rename(in	:[43,23,65 :[32,54,31 tract(Cls2) (Cls2)) columns={	5,12],'Math I,21],'Math))1/2 m -1/2 mark 'Hindi':'Scie Two",3:"Th	s':[42,41, s':[53,21, ark ence'},inp iree"},inp	,57,14],'Hi ,73,51],'Hi blace=True	ndi':[40,53,62,17] ndi':[31,65,36,43] e)1 mark	
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	D	How many members are there in a Scrum Team and what are their responsibilities? OR Write a short note on Scrum Events.	3
	E	3 marks for correct note. Differentiate between the term commit and update.	2
		OR	_
		Differentiate the terms Push and Pull.	
		2 mark for corrcet difference.	
	F	What is Pair Programming? What are its benefits?	3
	G	1.5 mark for definition. 1.5 marks for benefits. Draw a Use-Case Diagram for Restaurant Management System.	4
		Q Order food Waiter Serve food Eat food Frepare food Patron Drink wine Patron Pay for food	
		<text></text>	
		Section-C	
		Section-C	
Q4	A	Write the Django command to start a new Project named "Restaurant". Django-admin startproject Restaurant 1 mark	1
	В	Name the application in which you can open a csv file other than notepad. Excel1 mark	1
	С	What is the use of ALTER command? Give one eample	2
		Or	
		What is the command UPDATE used for? Give one example. 1 mark for correct use and 1 mark for example.	
L		Muite a view function nerved "Display" that are present a pat request and displaye	2
	D	Write a view function named "Display" that can process a get request and displays	Z

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		iii. Select city, fee from training where topic='ICT in Education';	
		iv. 14000	
		V. City New Delhi Agra Panipat	
		1 mark for commands i., ii and iii each. ½ mark for iv., and v each.	
		OR Write a Database Connectivity code that reads and display all the records from the table Items of Database Shop.	
		Ans- import mysql.connector as sl mycon=sl.connect(host="localhost",user="root","passwd="new",database="Shop")	
		if mycon.isconnected()==False: print("Error connecting to MYSql Database") cursor=mycon.cursor()	
		cursor.execute("select * from items") data=cursor.fetchall() for r in data:	
		print(r) mycon.close()	
		1 mark for connection statement. 1/2 mark for checking the connection for success. 1/2 mark for execute command.	
		 ½ mark for fetch command. ½ mark for conenction closing command. 	
		*Or any other possible/correct code. * student can input other names for localhost, user and password.	
	G	Write the command to close a connetion to a database named "Library" connectced by a connection object con. Ans-	1
		con.close() 1mark	
	Н	Mr. Arvind developed an application using python and MySQL. Name the front end and back end of this application. Ans-	1
		Front End- Python1/2 mark Back-End- MYSQL1/2 mark Section-D	
Q5	A	Section-D Which of the following comes under cyber crime?	1
		 i. Theft of a brand new sealed laptop. ii. Access to a bank account for an unauthorized money transaction. iii. Modification in a company's data with unauthorized access. iv. Photocopying of a printed report. Ans- ii and iii ½ mark for each	
	В	Name the crimes for which cyber laws are enforced strictly in India. Ans- These are-	1
		a. Cybercrimes.	

		-	
		b. Electronic and digital signatures.	
		c. Intellectual property.	
		d. Data protection and privacy.	
	_	1 marks for any two correct laws.	
	С	Priyanka got an opportunity to write an article for School Magazine. She wrote a very	1
		nice article with impressive quotations of famous poets without citing their names.	
		What kind of offence she has done?	
		Ans- Plagiarism—1mark	
	D	What are the different ways in which authentication of a person can be performed?	2
		Or	
		Describe measures to recycle your e-waste.	
		Ans-	
		Diff. methods of user identification are:	
		a. Password	
		b. Token	
		c. Biometrics	
		d. OTP	
		2 mak for any four correct ways.	
		Or	
		Following measures can be adopted to recycle the e-waste safely-	
		a. Use a certified e-waste recycler.	
		b. Visit civic institutions.	
		c. Explore retail options.	
		d. Donate your electronics.	
		2 marks for any four correct measures.	
	E	Expand the terms –OSS and OSI	1
		Ans-	
		OSS- Open Source Software.	
		OSI- Open Source Initiative.	
		½ mark for each	
	F	List the benefits that ICT can bring about to people with learning disabilities.	2
		2 marks for correct note.	
		OR	
		What is Net Neutrality? Do India impose Net Neutrality by Laws.	
		Ans-	
		Net Neutrality is the principle that individuals should be free to access all content	
		and applications equally, regardless of the source, without Internet Service	
		Providers discriminating against online services or websites.	
		Yes, India impose Net Neutrality by Laws.	
		2 mark for correct note.	
		*au anu athau nassihla saurast nata	
		*or any other possible correct note.	
	6	If someone backs your website, who would you complain to?	1
	G	If someone hacks your website, who would you complain to?	1
		Ans-	
	+	The complaint has to be lodged to the police under the IT Act 1 mark	1
	Н	Software for which licence fee is aplicable after some time limit.	1
1	1	1 mark	