CKS CODE: 282

CENTRAL KERALA SAHODAYA MODEL EXAMINATION 2022-2023 CLASS XII

Subject: INFORMATICS PRACTICES (065)

Time Allotted: 3 HRS

Max Marks: 70

General Instructions:

- 1. This question paper contains five sections, Section A to E.
- 2. All questions are compulsory.
- 3. Section A have 18 questions carrying 01 mark each.
- 4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
- 5. Section C has 05 Short Answer type questions carrying 03 marks each.
- 6. Section D has 03 Long Answer type questions carrying 05 marks each.
- 7. Section E has 02 questions carrying 04 marks each. One internal choice is given in Q35 against part c only.
- 8. All programming questions are to be answered using Python Language only.

Q.No	SECTION A	Marks
1.	Identify the type of network in a school campus. i. LAN ii. PAN iii. MAN iv. None of the above	1
2.	David has created the Series College but forget to give the index values ['S1','S2','S3','S4']. Which one of the following will set the index values to Series School. i. index=['S1','S2','S3','S4'] ii. index=('S1','S2','S3','S4') iii. College.index=['S1','S2','S3','S4'] iv. College.index=('S1','S2','S3','S4')	1
3.	 Given below is a DataFrame 'DayName'. Day Name Monday Tuesday Wednesday Thursday Which one of the following will result in 2? DayName.size DayName.ndim DayName.column DayName.shape 	1
4.	Raju was checking a python project. While accessing the column from the data frame, he can specify the column name. In case column does not exist, which type of error it will raise:	1

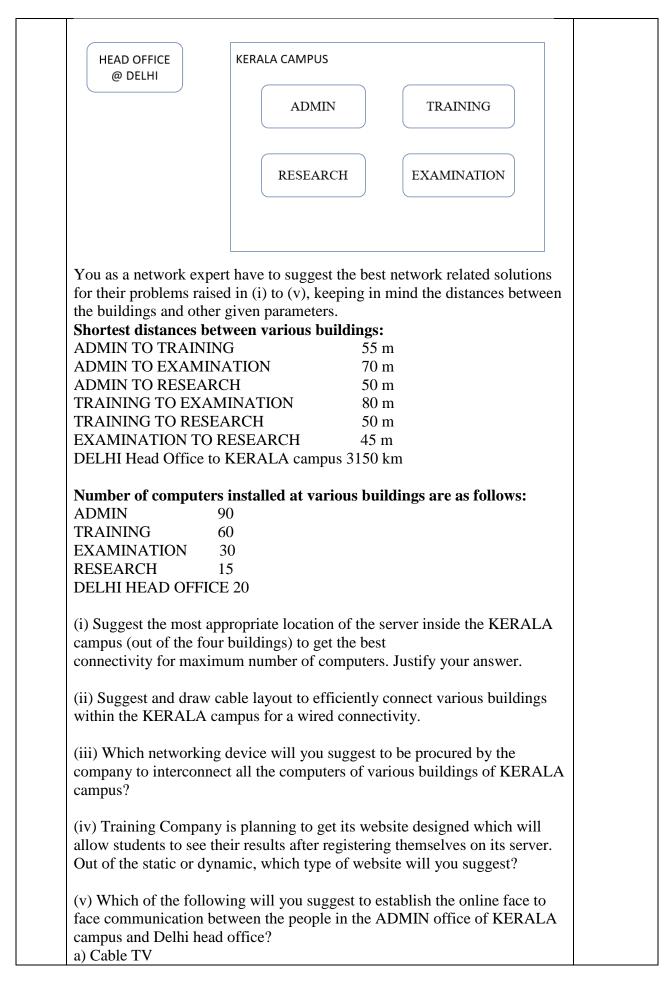
	i. Index Error	
	ii. Column Error	
	iii. Key Error	
	iv. Runtime Error	
5.	Which amongst the following is an example of a browser?	1
	i. CHROME	
	ii. AVG	
	iii. AVAST	
	iv. NORTON	
6.	Choose the correct statement from the options given below to read from a	1
0.	CSV file in a dataframe DF1 is :	1
	i. <df1>.read_csv(<file>)</file></df1>	
	ii. <file>.read_csv(<df1>)</df1></file>	
	iii. <df1>=pandas.read(<file>)</file></df1>	
	iv. <df1>=pandas.read_csv(<file>)</file></df1>	
7.	Which of the following module is used for plotting in Python?	1
	i. matplotlib	
	ii. pipinstall	
	iii. piplot	
	iv. pyplot	
8.	Which argument must be set with plotting functions for legend() to display	1
	the legends ?	
	i. data	
	ii. label	
	iii. columns	
	iv. sequence	
9.	Which one of the following options are under aggregate functions?	1
	i. SUM(),ROUND(),AVG()	
	ii. SUM(), SQRT(),ROUND()	
	iii. COUNT(),AVG(), INSTR()	
	iv. AVG(),MIN(), SUM()	
10.	Which of the following function is used to save figure created after plotting	1
10.	data?	1
	: figgers()	
	i. figsave()	
	ii. savefig()	
	iii. save()	
	iv. savefigure()	
11.	Which of the URL is a platform for supporting the open data initiative of the	1
	Government of India?	
	i.www.opendata.gov.in	
	ii. www.govdata.in	
	iii. www.data.gov.in	
	iv. www.open.gov.in	

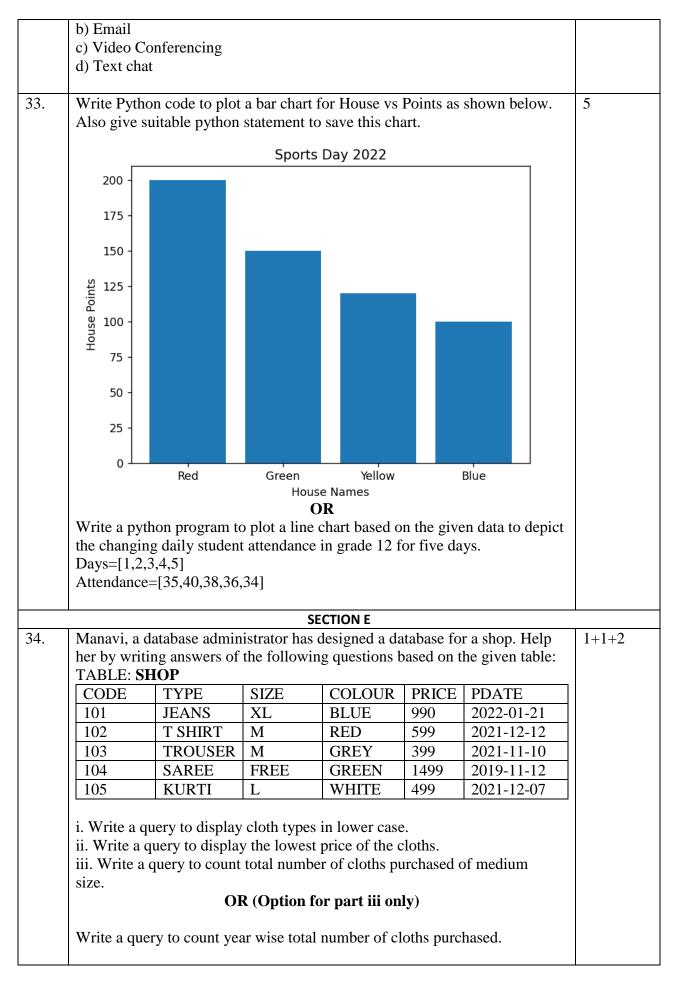
12.	What is the maximum value that can be stored in NUMEPIC(2.1)?	1
12.	What is the maximum value that can be stored in NUMERIC(3,1)? i. 99.9	1
	ii. 9.99	
	iii. 999.99	
	iv. 99.999	
13.	POW() is an example of -	1
	i. Math Function	
	ii. Text Function	
	iii. Date Function	
	iv. Aggregate Function	
14.	Which SQL statement do we use to find the total number of records present	1
	in a table?	
	i. distinct()	
	ii. max()	
	iii. sum()	
	iv. count(*)	
15	What will be notymed by the siver every?	1
15.	What will be returned by the given query?	1
	SELECT INSTR('MERRY CHRISTMAS 2022', 'YEAR');	
	i. 0	
	iii. NULL	
	iv. Error	
16.	Thomas is confused in using date functions in SQL. To get the current date,	1
	function is used.	
	i. DATE()	
	ii. CURDATE()	
	iii. CURRENTDATE()	
	iv. CDATE()	
	O17 and 18 are ASSERTION AND REASONING based questions	
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as:	
	i. Both A and R are true and R is the correct explanation for A	
	ii. Both A and R are true and R is not the correct explanation for A	
	iii. A is True but R is False	
	iv. A is false but R is True	
17.	Assertion (A): The rename function of Data Frame does not rename the	1
	columns of the original data frame, but instead returns a dataframe with	
	updated column names.	
	Reason (R): Default value of inplace parameter in rename function is True.	
10		1
18.	Assertion (A): - To make a Histogram with Matplotlib, we can use plt.hist()	1
	function.	
	Passoning (P): The hip parameter is not compulsory to aroute histogram	
	Reasoning (R):- The bin parameter is not compulsory to create histogram.	
1		

					SECTION B				
19.	Cor	mpare	Authentica	tion and	Authorization.	2			
	OR								
			he differenc	e betwe	en static and dynamic web pages?				
20.	Wh	at wil	l be the out	nut prod	used by the following programming statements	2			
20.	What will be the output produced by the following programming statements 1 & 2?								
	-	-	andas as pd eries(data=[56.45.60).38])				
	prir	nt(S1>	>50) #	State	ment1				
	prir	nt(S1[S1>50]) #	State	ement2				
21.	SEI	LECT	COUNT(*) FROM	EMPLOYEE; # Statement 1	2			
				-					
			,		ATION) FROM EMPLOYEE; # Statement 2 12 and Statement 2 is 10 respectively. Justify				
		-			to total number of rows present in the table				
	EM	[PLO]	YEE.		-				
22.	Cre	ate a	DataFrame	using a	dictionary that stores Age, Location and Name	2			
				-	International Sports Event. Screen shot as	2			
	foll	ows:							
		Age	Location	Name					
	0	24	New York	John					
	1	13	Paris	Anna					
	2	53	Berlin	Peter					
	3	33	London	Linda					
	Not	te: Pai	ndas library	has bee	n imported as pd.				
23.	Exp	olain I	Digital Foot	print.		2			
	OR		-	-					
	L1S	t any i	tour benefit	s of e-w	aste management.				
24.	Giv	ven be	low are two	series.		2			
	<u>S1</u> S2								
	0	56	0 45						
	1	45	1 34						
	23	60 38	$\begin{array}{ccc} 2 & 66 \\ 3 & 40 \end{array}$						
				put of pi	int(S1-S2)?				
	OR	2							
	Con	npare	Pandas Ser	ries and	DataFrame.				
25.	List	t any t	two differen	ices betw	veen single row and multi row functions.	2			
		2							

	1			SECTI	ON C			
26.	+	+	+	+	+	+	++	3
	S1_No +	Name +	Age +	Department +	+	Salary +	Sex ++	
		Sathyan Ajay Surya Chithra	35 30 30 28	Computer Maths Biology English	1999-02-01 2002-04-18 2007-06-08 2010-07-09	15000.00 25000.00 12000.00 18000.00	M M F F	
	5 6 7 8	Babu Seema Raju Renju Mathew	33 44 34 31 51	Physics Chemistry Chemistry Physics English	2009-08-03 2000-07-07 2006-09-10 2006-05-05 1990-01-01	19000.00 27000.00 23000.00 12000.00 35000.00	M F M F M	
	Write out TEACHE	-	L quer	ies (i) to (iii)	which are base	ed on the giv	ven table	
	ii. SELEO iii. SELE	CT NAME	FROM (AGE, I	TEACHER V DAY(DateOfJ	EACHER WH WHERE MON Toin)) FROM T	TH(DateOf	Join)=07;	
27.		•	•	plagiarism? V void plagiaris	Why is it a pur m.	ishable offe	ence?	3
28.	Consider Name H 0 ABC 1 1 XYZ 1 2 PQR 2 3 DEF 1	Fee 500 800 000	DataFra	me 'College':				3
	Write sui	table Pytho	on stater	ments for the	following:			
	[35,50,60 ii. Add a),25].	e name	with the follo d 'LMN' havi x.	U			
29.	through s those pho Late in th already d	ocial media otos from so ne evening, leleted from a. Preeti er	a. After ocial me to her n socia	some days, the edia so that he surprise, she l networking	red some of h ey had some fi or friend canno saw that one o was available Sita and found	ght. So, Pre- t access tho of the image e with their	eti deleted se photos. es she had	
	-	-		for the follow n understand i	ing questions. t clearly.	Give justifi	cation for	
	b. Can an	ybody else	also ca	in access these	ch she had alre e deleted imag n her digital fo	es?	?	

30.	Based on following	Based on table DOCTOR given here, write suitable SQL queries for the following:						
	++	NAME	DEPT	+ SEX	EXPERIENCE			
	101 104 105 107 109 111 114 117 130	K George Bill Lara	CARDIOLOGY MEDICINE MEDICINE SKIN	M M M F F F F	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	ii. Display	y department-wi	e highest experien se lowest experien of male and female	ce.	++			
31.	1		SECTION and output (I to iv			5		
	string 'TA ii. Display 'CORPO iii. Round iv. Displa v. Remov	AMASOMA JY the position of RATE FLOOF off the value 87 y the remainder e all the expected	OTHIRGAMAY	A'. ng 'OR' ir mal place. 7. ing spaces	-			
		2() (1() 2()	L functions using	suitable ex	amples.			
32.	planning t The Keral	to set up its Indi	has four main bui	a with its h	nead office in Delhi. MIN, TRAINING,	5		





4 3 7 0			FIRST	
AVS	40	32	8	
GYI	30	18	12	
HKR	20	18	2	
DNY	18	10	8	
NJU	28	20	8	
, hon statement to	display the data	of DIST col	umn of indexes	
	HKR DNY NJU e output of the for	HKR 20 DNY 18 NJU 28	HKR 20 18 DNY 18 10 NJU 28 20 e output of the following python statement: 10 hon statement to display the data of DIST column 10	HKR 20 18 2 DNY 18 10 8 NJU 28 20 8 e output of the following python statement: 8 hon statement to display the data of DIST column of indexes