Dept. of Computer Science

Continuous Internal Evaluation from 2020-21

Class	Examination	Subject Code	Internal Marks	Distribution	Marks
B.Sc. I	November,	Problem Solving		Test-I	10
	2019	using Computers		Assignment	5
		DSE-1006A		Python	
				Assignment	5
				DBMS	
				DBMS CIE Test	10
B.Sc. III	March, 2021	Internet		Test 1	10
		Technologies -II		Test 2	5
				Assignments	5
				Test 3	10
	July, 2021	Data Science		Online Test	10
		using Python			

VIVEKANAND COLLEGE, KOLHAPUR(Autonomous) Dept. of Computer Science B.Sc.I Internal Marks Mar 2021 SEMESTER-II

				Python		
Sr.No	Roll No	Python Test	DBMS Ass	assi	Total	Out of 20
1	7301	10	5	5	9.33	18.66667
2	7302	10	5	5	9.33	18.66667
3	7303	10	5	5	8.67	17.33333
4	7304	7	5	5	7.33	14.66667
5	7305	9	5	5	8.67	17.33333
6	7306	9	5	5	7.67	15.33333
7	7307	10	5	5	8.00	16
8	7309	9	5	5	7.67	15.33333
9	7310	10	5	5	8.33	16.66667
10	7312	9	5	5	9.33	18.66667
11	7313	10	5	5	8.33	16.66667
12	7315	10	5	5	9.33	18.66667
13	7316	10	5	5	7.67	15.33333
14	7317	10	5	5	7.67	15.33333
15	7318	10	5	5	9.00	18
16	7319	10	5	5	8.33	16.66667
17	7320	10	5	5	7.33	14.66667

18	7321	10	5	5	9.67	19.33333
19	7322	10	5	5	8.67	17.33333
20	7323	10	5	5	8.67	17.33333
21	7324	10	5	5	8.33	16.66667
22	7308	9	5	5	7.67	15.33333
23	7325	10	5	5	8.67	17.33333
24	7326	9	5	5	7.67	15.33333
25	7327	10	5		5.67	11.33333
26	7328	10	5	5	9.67	19.33333
27	7329	10	5	5	8.33	16.66667
28	7332	10	5	5	7.33	14.66667
29	7333	9	5	5	8.33	16.66667
30	7334	10	5	5	9.67	19.33333
31	7335	8	5	5	9.00	18
32	7336	10	5	5	8.33	16.66667
33	7337	9	5	5	9.00	18
34	7338	10	5	5	9.67	19.33333
35	7339	10	5	5	7.67	15.33333
36	7340	8	5	5	7.67	15.33333
37	7341	10	5	5	8.67	17.33333
38	7342	10	5	5	8.67	17.33333
39	7436	9	5	5	6.33	12.66667
40	7437	9	5	5	8.33	16.66667
41	7438	9	5	5	8.33	16.66667
42	7439	10	5	5	7.67	15.33333
43	7440	8	5	5	8.33	16.66667
44	7003	10	5	5	9.00	18

Vivekanand College, Kolhapur Department of Computer Science B.Sc.III Internals Exam Report

Roll No	Test 1	Test 2	ASSIGNMENT	Test 3
8206	6	3	3	6
8207	7	3.5	2	5
8208	7	3.5	5	9
8209	8	4	5	9
8210	7	3.5	5	9
8211	7	3.5		5
8212	7	3.5	5	9
8213	7	3.5	5	9
8214	6	3	5	8
8215	7	3.5		6
8216	8	4	5	9
8217	8	4	5	9
8218	8	4	5	9
8219	8	4	5	9
8220	8	4	5	9
8221	7	3.5		6
8222	7	3.5		7
8223	8	4	5	9
8224	7	3.5	5	9
8225	7	3.5	5	9
8226	7	3.5	5	9
8227	7	3.5	5	9
8228	8	4	5	9
8229	8	4		5
8230	7	3.5		5
8231	9	4.5	5	10
8232		0		9
8233	7	3.5		9
8234		0		9
8235	7	3.5	5	9
8236	7	3.5	5	9
8237	7	3.5	5	9
8238	7	3.5		6
8239	7	3.5		5
8240		0	5	9
8241	8	4		5
8242	7	3.5	5	9

8243	8	4	5	9
8244	8	4	5	9
8245	8	4		5
8246	7	3.5	5	9
8247	8	4	5	9
8248	8	4	5	9
8249	8	4	5	9
8250	8	4	5	9
8251	7	3.5		5
8252	8	4	5	9

Vivekanand Co	Vivekanand College, Kolhapur			
(Autor	iomous)	-		
Department of C	Computer Scienc	e		
B.S	ScI			
Database Management	System CIE O	nline Test		
Date- 10	6-08-2021			
Surname	First name	Grade/10.00		
Shinde	Omkar	6		
Borage	Samrudhi	6		
Pendhari	Shoaib	5		
Durugale	Shubham	7		
Pandharapatte	Siddhi	4		
Patil	Shweta	5		
Dhavale	Pankaj	5		
Ambardekar	Siddika	4		
Vanarse	Sahil	10		
Powar	Sayali	10		
Hawale	Abhishek	6		
Shintre	Isha	7		
Pathan	Shifa	6		
Vibhute	Vidira	5		
Chougule	Madhura	10		
Kamate	Sakshi	5		
Patil	Apeksha	5		
Bote	Prajkta	5		
Chavan	Komal	8		
Shinde	Sejal	6		
Patil	Dnyaneshwari	5		
Patil	Mithila	5		
Tahsildar	Pratik	10		
Kante	Gunjan	5		
Ananda Patil	Gayatri	10		
Gadave	Swarup	6		
More	Onkar	9		
Kale	Aditya	5		
Kesarkar	Nikhil	10		
Waghmare	Rutuja	6		
Todkar	Shveta	9		
Ingale	Shreyash	6		
Chogule	Prathamesh	6		
Ingale	Aditi	4		
Shinde	Sanika	10		
Jadhav	Parth	5		
Ghumai	Dhiraj	3		

Kore	Shubham	6
Shaikh	Aman	10
Nadale	Swapnali	10
Patil	Vrushali	10
Jasud	Atharva	6
Bhopale	Animesh	3
Chougule	Tejas	5
Yadav	Aishwarya	10

Vivekanand College, Kolhapur			
(A	utonomous)		
Departmer	nt of Computer Scier	nce	
	B.ScII		
Operating S	System CIE Online	Test	
E	Date- 09-11-2020		
Last name	First name	Grade/10.00	
Powar	Prashant	9.36	
Sutar	Vaishnavi	6.16	
Kugaji	Bhargavi	9.2	
ARADE	SAMADHAN	9.6	
Kadwale	Ananya	9.6	
Chavan	Pratik	9.2	
Prabhavale	Uditanshu	9.12	
Jadhav	Sayali	8.64	
Chougale	Ketan	9.6	
Khandare	Pankaj	10	
Shinde	Kirti	9.2	
Sankpal	Prajakta	10	
Katyar	Kajal	10	
Patil	Snehal	9.2	
Mali	Karishmakumari	9.12	
Patil	Sunil	9.01	
Katyar	Preeti	10	
Jamadar	Tasmiya	7.52	
Nirmale	Snehal	9.6	
Mulla	Ashraf	8.23	
Dinde	Rutuja	10	
Dabade	Shweta	8	
Sutar	Harshada	9.01	
Jadhav	Vaishnavi	9.2	
Korde	Shreya	9.6	
Powar	Saraswati	8	
Giri	Poonam	8.93	
Sagaonkar	Tejashree	10	
Shintre	Pranjal	9.6	
Mahadik	Akshata	6.4	
Desai	Akanksha	4.35	
Patil	Nikita	8.57	
Magdum	Rajvardhan	9.6	
Patil	Siddharth	4.4	
Patil	Sakshi	8.8	
Patil	Rohan	8.36	
Patil	Aadesh	4.77	

Shivane	Ashutosh	9.2
Patil	Santosh	8.4
Kharat	Komal	6.05
Ekal	Sanket	9.2
Patil	Shritej	9.33
Patil	Sujit	9.6
Khurandale	Vaishnavi	7.68
Patil	Sammed	7.11
Garadi	Sania	4
Dabade	Amruta	8.16
Chavan	Aishwarya	2.47
Patil	Abhishek	7.6
Pusalkar	Tanay	7.65
Overall average		8.33

Vivekanand College, Kolhapur			
(Autonomous)	-	
Departm	ent of Computer Sci	ence	
^	B.ScII		
Operating	system CIE Onlin	e Test	
	Date- 29-05-2021		
Last name	First name	Grade/10.00	
Tashildar	Prathamesh	7	
Dinde	Rutuja	10	
ARADE	SAMADHAN	10	
Korde	Shreya	10	
Nirmale	Snehal	10	
Kadwale	Ananya	10	
Katyar	Preeti	9	
Chavan	Pratik	10	
Khandare	Pankaj	10	
Chougale	Ketan	10	
Sankpal	Prajakta	10	
Jadhav	Sayali	9	
Giri	Poonam	10	
Prabhavale	Uditanshu	9	
Patil	Sunil	9	
Magdum	Rajvardhan	10	
Patil	Santosh	10	
Patil	Snehal	10	
Patil	Shritej	10	
Shinde	Kirti	10	
Ekal	Sanket	9	
Mulla	Ashraf	9	
Pusalkar	Tanay	9	
Jamadar	Tasmiya	8	
Patil	Siddharth	7	
Sutar	Harshada	10	
Patil	Nikita	10	
Patil	Sakshi	7	
Jadhav	Vaishnavi	10	
Patil	Rohan	10	
Khurandale	Vaishnavi	9	
Dabade	Shweta	10	
Sutar	Vaishnavi	8	
Katyar	Kajal	10	
Mali	Karishmakumari	10	
Shintre	Pranjal	10	
Shivane	Ashutosh	10	

Kugaji	Bhargavi	10
Sagaonkar	Tejashree	10
Desai	Akanksha	6
Powar	Saraswati	9
Dabade	Amruta	7
Chavan	Aishwarya	10
Garadi	Sania	8
Patil	Sujit	10
Powar	Prashant	6
Patil	Sammed	10
Patil	Aadesh	10
Patil	Abhishek	10
Mahadik	Akshata	10
Kharat	Komal	9
Sutar	Vishwajeet	10
Muthane	Vaishnavi	9
Chavan	Aishwarya	0
Overall average		9.13

Vivekanand	Vivekanand College, Kolhapur			
(Au	tonomous)	-		
Department	of Computer Science	e		
_	B.ScIII			
Software Engin	neering CIE Online	Test		
Da	te- 19-07-2021			
Last name	First name	Grade/10.00		
Yamgarnikar	Snehal	10		
Kamble	Prajakta	10		
Salunkhe	Kalyani	10		
Mahajan	Sakshi	10		
Patil	Vinod	8.2		
Shaikh	Muskan	10		
Shete	Aditi	10		
Shinde	Pratik	10		
Patil	Vaishnavi	10		
Karoshi	Spurthi	10		
Patil	Shivam	10		
Todkar	Sharvari	8.67		
Chougale	Niranjanee	9		
Patil	Snehal	10		
Yadav	Rutuja	10		
Kadam	Archiet	10		
Patil	Amruta	8.67		
Patil	Gautam	10		
Sawant	Bhakti	10		
kamble	Yash	9.8		
Patil	Shivam	10		
Valvi	Rajendra	9.83		
Kamble	Shubhangi	8.17		
Nille	Aishwarya	10		
Momin	Misba	8.67		
PATIL	PRANAV	9.83		
Koundade	Shubham	10		
Powar	Akash	9.83		
Patil	Pooja	10		
Kamble	Rahul	8.67		
Pathare	Akshata	6.37		
Kamble	Tejashri	9.2		
Jangate	Ajit	8.67		
Bagnikar	Sanket	10		
Patil	Rohan	10		
Sasne	Rutvik	7.33		
Urane	Rachana	10		

Mane	Prem	10
Bhosale	Shubham	9.03
Kharade	Nisha	10
Yadav	Saiprasad	10
Shetke	Atharva	9
Chougale	Shubham	10
RAJPUT	VISHWAJEET	8.67
Patil	Shubham	10
Pawar	Aishwarya	10
Nimbalkar	Manasi	10
Patil	Amruta	0
Overall average		9.33

Vivekanar	nd College,	Kolhapur (Autonomous)
	Department of	Computer Science
	B	.ScIII
Data S	Science using	Python CIE Online Test
	Date-	20-07-2021
Surname	First name	Grade/10.00
Patil	Snehal	10
Sawant	Bhakti	10
Patil	Pooja	10
Patil	Vaishnavi	10
Kadam	Archiet	10
Chougale	Niranjanee	10
Patil	Shubham	9
Todkar	Sharvari	10
Patil	Amruta	9
Powar	Akash	10
Patil	Shivam	10
kamble	Yash	10
Mane	Prem	10
Kamble	Rahul	10
Valvi	Rajendra	10
Karoshi	Spurthi	10
PATIL	PRANAV	10
Shete	Aditi	10
Shinde	Pratik	10
Koundade	Shubham	10
Kamble	Prajakta	10
Patil	Shivam	10
Yadav	Saiprasad	10
Nille	Aishwarya	10
Salunkhe	Kalyani	10
Mahajan	Sakshi	10
Yamgarnikar	Snehal	10
Yadav	Rutuja	10
Patil	Vinod	9
Chougale	Shubham	10
Momin	Misba	10

1	1	1
Kamble	Shubhangi	10
Shaikh	Muskan	10
Shetke	Atharva	10
Patil	Gautam	10
Patil	Rohan	9
Sasne	Rutvik	10
Pawar	Aishwarya	10
Bagnikar	Sanket	10
Kamble	Tejashri	9
Jangate	Ajit	10
Urane	Rachana	10
Kharade	Nisha	10
Pathare	Akshata	10
Nimbalkar	Manasi	10
Bhosale	Shubham	10
Overall average		9.89

Date: 28	1/11	20'	11
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ं ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार '' - शिक्षणमहषी डॉ. बापुजी साळुंखे Signature of Supervisor



pp

16-

Shri Swami Vivekanand Shikshan Sanstha's VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

- Roll No. 7917 Subject Softwore Engenering Class . Div. Suppliment No.

Test / Tutorial No.

Q.3

7 Explain in detail UML Architecture UML Architecture: In real world system is used by diff. users. it may be developer, tester, soft. E. business peoplet many more. the software architecture when designed system he will made with diff prespe - Clive in her mind, which is easy to understand diff users. The most system is visulize by diff view.

The soft architecture will help to achive quality in system to designed with softwate quities like seperation & concern. easy to adap the system become many easy to maintain, reuse & adapt. the system is used by project manager, client 4 end wers. they have their own views, 4 building agenda's. it is tasy by follow 5 views UML Architecture!



(1) USE-case view: (1) It is the view that shown functionality of system that prerecived from the external users (2) It relives the system requirement (3) It capture static view of these view to for state chart diag, activity dig. use-case dia.

hours

(2) <u>Design view</u>: (1) It is the view that shows the

- bow functionality is made in the system.
 (2) vocabulary accessed the problem space + solp space.
- (3) Implimentation view: (7) It the view that organized core component & files
- (4) <u>Process</u> view: (1) It demonstrate the concurrey t of the system it concurrent threats & process may sychronized mechanism,
- (B) <u>Deployment view(I)</u> It demonstrate the view that demonstrate the deployment with physical architecture. (2) it include the node of software topology. & execute the system

9.4 Explain in detail conceptual Model of UML <u>conceptul of UML</u>: conceptual model is concept of several interrelated ob components it is easy to understand & it related to each other. this is the 1St step before drawing the UML.

following object are the objects of the UML which needed in.

it may more present in single system.

(2) class : dass is a software blueprint for

an object which is used to define veriables methods common to all system.

(3) <u>Abstraction</u>: It is essential characteristics of existen that hiding irrelent information (4) Inheritance: It derived new class from the existing class.

(6) polymorphism: It is the mechanism which how diff forms for diff purpose.

(6) Encapsulation: It bind data & objects toge -ther for using enabling tight coupling betn them.



Q.6 Explain Class, object & Inheritance in detail (1) object: object is a real world entity which have diff. methods, the obj have more in a single system. it is instance of by dass. thus it is instance of class.

(2) <u>Inheritance</u>: Inheritance is a exiderived a new class by existing class. the existing class called as superclass, base class or parent class, or and new class is also called as child class or innerclass or subclass

In child class include attributes of the existing class it may also have include there own attributes.

for e.g. mammal is a class of human object it have many

cow is mammal

in this die eg. cow is sub class.

Total Marks Roll No 7403 VIVEKANAND COLLEGE.KOLHAUR(Autonomous) Department of Computer Science **CS-Internal Examination** Subject : Computer Science Class: B.Sc. I Time: IHrs Lifn which language is Python written? . SK All of the above 2. Which one of the following is the correct extension of the Python file? d)None of these b).python c)p 3. What do we use to define a block of code in Python language? c)Indentation d)None of these biBrackets 4. Which of the following functions is a built-in function in python language? d)None of these biprint() c)input() 5. Which of the following is an invalid variable? d) peri b) 1st string c) foo 6. Which one of these is modulus operator? \$1% d) None of the mentioned 7. What is the answer to this expression, 22 % 3 is?

. 90 d) 5 a) 7 b)1

b) //

8. What will be the value of the following Python expression? 4+3%5 d) 0 c)2 a)4 b)7

d)10

c)40

9. What is the putput of 1000015 > print(x) a)20 JU15

Date : 05/03/2021

Solve any 10:

b)PHP

a)English

ar.py

a)Kev

a)val()

11/

a) mystring 1

10. What is the output of

>->x 8 > /v=67 \rightarrow print(y/xy,"",y%x) d)13.1 Na132 c)132 b)13.1

Total Marks

10



Roll No.



VIVEKANAND COLLEGE, KOLHAUR (Autonomous) Department of Computer Science **CS-Internal Examination** Class: B.Sc. 1 Subject : Computer Science Date : 05/03/2021 Time: Solve any 10: 1.In which language is Python written? a)English b)PHP c)C \d)All of the above 2. Which one of the following is the correct extension of the Python file? a).py (b).python c).p d)None of these 3. What do we use to define a block of code in Python language? a)Key b)Brackets c)Indentation d)None of these 4. Which of the following functions is a built-in function in python language? a)val() b)print() d)None of these (______)input() 5. Which of the following is an invalid variable? , b) 1st_string a) mystring 1 c) foo d) peri 6. Which one of these is modulus operator? all b) // 101% d) None of the mentioned 7. What is the answer to this expression, 22 % 3 is? b) 1 d) 5 a) 7 c) 0 8. What will be the value of the following Python expression? 4+3%5 d) 0 10)2 a)4 b)7 9. What is the putput of >>x=15>>print(x) d)10 a120 c)40 b115 10.What is the output of >>>x=5 >>/v=67 $\leq >> print(y/xy,"",y\%x)$ a)132 b)13,1 c)132 d)131

Roll No:

Total Marks: -----

10



Total Mark Roll No. VIVEKANAND COLLEGE, KOLHAUR (Autonomous) Department of Computer Science **CS-Internal Examination** Class: B.Sc. I Subject : Computer Science Time: 1Hrs Date : 05/03/2021 Solve any 10: 1.1n which language is Python written? c)C d)All of the above a)tinglish b)PHP 2. Which one of the following is the correct extension of the Python file? d)None of these b).python c).p appy 3. What do we use to define a block of code in Python language? c)Indentation d)None of these b)Brackets a)Key 4. Which of the following functions is a built-in function in python language? d)None of these a)val() b)print() eninput() 5. Which of the following is an invalid variable? d) peri c) foo a) mystring 1 b) 1st string 6. Which one of these is modulus operator? d) None of the mentioned et% b) // 21 7. What is the answer to this expression, 22 % 3 is? d) 5 c) 0 b) 1 277 8. What will be the value of the following Python expression? 4+3%5 040 c)2 b)7 a)4 9. What is the putput of >>x=15>>print(x) d)10 c)40 a)20 bit5 10.What is the output of >>>=5 s>>y=67

>>>print(y/xy," ",y%x) a)13.2 b)13,1 c)132 d)13.1

UK	statement is used in	a python to ta	ike input tre	IN USET.
a)print()	(),brinput()	c)printf()	d	(insital)
12	is a python prom	ipt.		
a.<<<	¥>>>	00	d.	
U.	is used as a trat	nslator in pyt	hon	
alcompiler	Mintepreter	c)tra	inslator	d converter
14. ₽¥THO	N is a			
arsoftware	b)hardware	c)operating	system	d)natural languag

if ststement shoulb be followed by b); c)" d) 31

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2011/03 2.2.35

Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science

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B.Sc. III (Sem V) Internal Examination March-2021 Subject: Software Engineering

Date: 19/03/2021	Duration: 30mins
Instructions:	
1. Attempt all Questions	
2. Each question carries 1 mark	
 I) A means "an organized relationship among function components". a) Software (b) System c) Application d) Function 	oning units or ion
2) characteristics of a system refer to the manner in	which each component
functions with other components of the system.	
a) Interdependence b) Integration	
d) Organization	
 is a document that captures complete description about expected to perform. 	ut how the system is
a) SDS b) SRS c) SMS d) None of these	2
4) In Waterfall Modelphase checks that the software is run	nning efficiently and with
a) Design b) Coding c) Maintenance d) Testin	ng
5) The practical extent to which a project can be performed successf	fully is termed as
a) FFT b) ERD () Feasibility d) None of these	e
6) Accurate information can be collected with help of specific meth	ods to get correct
information is termed as	
a) System Design b) System Testing c) Feedback	d) Fact Finding
7) For object-oriented softwareobject modelling langu	age is used
a) Unifield Modeling Language b) Union Modeling La	
c) Unified Modeling Language d) Undefined Modelin	g Language
8) is the process of extracting, structuring and organize	
source, usually human experts.	ing knowledge from one
a) Knowledge Development b) Knowledge gain	
c) Knowledge acquisition d) None of these	

9) The reasoning and justification behind human decisions, opinions and beliefs is considered in

Rationale b) Software Design c) SDLC d) None of these

10) The coding (internal logic) of the software is checked in testing

a) Black Box testing . b) White box testing

c) Alpha Testing d) All of these

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Rollny - 8218
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Department of Computer Science

B.Sc. III (Sem V) Internal Examination March-2021 Subject: Software Engineering

Duration: 30mins Date: 19/03/2021 . Instructions: 1. Attempt all Questions 2. Each question carries 1 mark 1) A ____ means "an organized relationship among functioning units or components". a) Software b) System c) Application d) Function 2) _____ characteristics of a system refer to the manner in which each component functions with other components of the system. a) Interdependence b) Integration c) Interaction d) Organization 3) ____is a document that captures complete description about how the system is expected to perform. a) SDS b) SRS c) SMS d) None of these 4) In Waterfall Model _____ phase checks that the software is running efficiently and with minimum errors. a) Design b) Coding c) Maintenance d) Pesting 5) The practical extent to which a project can be performed successfully is termed as a) FFT b) ERD c) Feasibility d) None of these 6) Accurate information can be collected with help of specific methods to get correct information is termed as a) System Design b) System Testing c) Feedback _d) Fact Finding object modelling language is used. 7) For object-oriented software b) Union Modeling Language a) Unifield Modeling Language d) Undefined Modeling Language c) Unified Modeling Language _____is the process of extracting, structuring and organizing knowledge from one 8) source, usually human experts. a) Knowledge Development b) Knowledge gain d) None of these c) Knowledge acquisition

9) The reasoning and justification behind human decisions, opinions and beliefs is considered in ______.
a) Rationale b) Software Design _____.
b) Software Design _____.
c) -8DLC d) None of these

10) The coding (internal logic) of the software is checked in ______ testing.

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a) Black Box testing b) White box testing

c) Alpha Testing d) All of these

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Department of Computer Science

B.Sc. III (Sem V) Internal Examination March-2021

Subject: Computer Network

07 TO Date: 19/03/2021

foll no :- 8230

Duration: 30mins

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Instructions:			501	inns
1. Attempt all Questions				
2. Each question carries 1 mark				
1) In OSI model, when data is sent f B is a) Application layer b) Tra	from device A nsport layer	to device B, t c) Link lay	he 5th layer to receive dat er MSession layer	ta at
2) Bluetooth is an example of	·.			
a personal area network	b) local area	network		
c) virtual private network	d) wide area	network		
3) When collection of various computed states alled	aters seems a	single coherer	at system to its client, the	n it
a) computer network	distribute	d system		
C networking system	d) mail syste	em		
4) How many layers are present in th (a) 5 b) 7 c) 6 d) 10	e Internet pro	otocol stack (T	CP/IP model)?	
5) Which of the following networks e a) local area network c) enterprise private network	extends a priv b) virtual pri d) storage are	rate network a vate network ea network	cross public networks?	
6) Which of the following are transpoa) TCP and FTPb) UDP	rt layer proto and HTTP	ocols used in n	etworking?	
TCP and UDP d) HTT	P and FIP			
7) Transport layer is implemented in a) End system	c) Eth	ernet	d) Signal transmissio	n
8) A is a device that forw	ards packets	between netw	vorks by processing the	
routing information included in the	packet.		of proceeding	
a) bridge b) firewall	router	d) hub		
9) The number of layers in ISO OSI ret a) 5 b) 7 c)	ference mod) 6	el is d) 10		
10) topology requires a multip	point connec	tion.		
a) Star	c) Ring	g	d) Bus	

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Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science

B.Sc. III (Sem V) Internal Examination March-2021 Subject: Computer Network

Date: 19/03/2021

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Duration: 30mins

Date: 1988/2021	
Instructions:	
1 Attempt all Questions	
2. Each question carries 1 mark	
In OSI model, when data is sent from device A to device B, the 5th layer to receive data a	11
B is	
a) Application layer b) Transport layer c) Link layer d Session layer	
T Di stati is en avampla of	
2) Bluetooth is an example of,	
(a) personal area network	
c) virtual private network d) wide area network	
3). When collection of various computers seems a single coherent system to its client, then it	
is called brdistributed system	
a) computer network (b) distributed system	
c) networking system (d) main system	
4) How many layers are present in the Internet protocol stack (TCP/IP model)?	
(a) 5 b) 7 c) 6 d) 10	
5) Which of the following networks extends a private network across public networks? a) local area network c) enterprise private network d) storage area network	
6) Which of the following are transport layer protocols used in networking?	
a) TCP and FTP b) UDP and HTTP	
a) TCP and LIDP d) HTTP and FTP	
(ce) fer and obs	
To The sect laws is implemented in	
/) Transport layer is implemented in	
a) End system b) Nic (b) Etternet d) Signal transmission	
/	
8) A is a device that forwards packets between networks by processing the	
routing information included in the packet.	
a) bridge b) firewall of router d) hub	
9) The number of layers in ISO OSI reference model is	
a) 5 b) 7 c) 6 d) 10	
10) topology requires a multipoint connection.	
a) Stor K) Mesh c) Ring d) Rus	

Department of Computer Science

Internal Examination 2021

Subject. Java Programming

Class: T.Y.B.Sc. (Sem-V)

Time: 30 minutes

Q.1. Select correct alternative and put it into box given.

i) The keyword allows main() to be called without creating any

a) public, instances b) void, objects ς) static, objects d) static, classes

ii) Which of the following is correct syntax for compiling java program?

a)	java prname 12	b) java prname.java
c)	javac prname.java 1.2	d) javac prname java

iii) Which of the following is valid header for main() method?

i. public static void main(String a[])

ii. public static void main(String[] a)

iii. static public void main(String a[])

iv. static public void main(String a[])

b) only i, ii a) only i c) i, ii, iii

iv) Select the odd pair of data types from the following:

byte, short, int, long, float, double

a) byte, short	b) int,	long
c) float, double	d) int,	float

v) Name the operators: $<, \&, \parallel, *=$

a. Conditional, Bitwise, Relational, Assignment

b. Relational, Logical, Bitwise, Compound Assignment

c. Relational, Bitwise, Logical, Compound Assignment

d. Relational, Bitwise, Bitwise, Assignment





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Roll Number:

Total Marks: 10 g

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d) i, ii, iii, iv

vi) Which of the following is true for Array in Java?

i. It is an Object in Javaii. It is collection of same type elements

iii. Array variables may be of non-primitive types

iv. Element of array is accessed by subscript

a) only i b) only i, ii c) i, ii, iii d) i, ii, iii, iv

vii) What is the output of following Java Statement?

System.out.println((4&5)|(4|5));

a) 2 b) 3 c) 4 d) 5

viii) What is the output of following Java Statemente?

System.out.println(!(! (10<20 && 10<30 || !(5>6))));

- a) 0 b) 1 c) true d) false
- ix) Which is/are of the following not true for 'this' keyword?
 - a) It is used create ambiguity between local and instance variable
 - b) It is used create constructor within another constructor
 - c) Both a and b
 - d) None of these

x) _____ method exists even when there is no object created, it can be

invoked using the _____ name and it belongs to the _____.

- a) Public, object, class
- b) Private, object, object
- c) User defined, object, class
- d) Static, class, class

d

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Department of Computer Science

Internal Examination 2021

Subject: Java Programming.

Class: T.Y.B.Sc. (Sem-V)

Roll Number: 8213

Time: 30 minutes

Total Marks: 10 - 19

Q.1. Select correct alternative and put it into box given.

i) The keyword allows main() to be called without creating any

a) public, instances	b) void, objects	
c) static, objects	d) static, classes	

ii) Which of the following is correct syntax for compiling java program?

a)	java prname 12	b) java prname.java	
c)	javae prname.java 1 2	d) javac prname.java	α.

iii) Which of the following is valid header for main() method?

i. publ	ic static void main	(String a[])		
ii. publ	ic static void main	(String[] a)		
iii. statio	e publie void main	(String a[])		
iv. static	e public void main	(String a[])		
a) anly i	b) only i, ii	c) i, ii, iii	d) i, ii, iii, iv	a

iv) Select the odd pair of data types from the following:

byte, short, int, long, float, double

a) byte, short	b) int,	long
c) float, double	d) int,	float

v) Name the operators: <, &, ||, *=

a. Conditional, Bitwise, Relational, Assignment

b. Relational, Logical, Bitwise, Compound Assignment

c. Relational, Bitwise, Logical, Compound Assignment

d. Relational, Bitwise, Bitwise, Assignment



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C

vi) Which of the following is true for Array in Java? i. It is an Object in Java ii. It is collection of same type elements iii. Array variables may be of non-primitive types iv. Element of array is accessed by subscript a) only i b) only i, ii c) i, ii, iii d) i, ii, iii, iv vii) What is the output of following Java Statement? System.out.println((4&5)|(4|5)); a) 2 b) 3 c) 4 d) 5 d viii) What is the output of following Java Statemente? System.out.println(!(! (10<20 && 10<30 || !(5>6)))); a) 0 b) 1 c) true d) false ix) Which is/are of the following not true for 'this' keyword? a) It is used create ambiguity between local and instance variable b) It is used create constructor within another constructor c) Both a and b C d) None of these method exists even when there is no object created, it can be x) invoked using the _____ name and it belongs to the _____. a) Public, object, class

- b) Private, object, object
- c) User defined, object, class
- d) Static, class, class

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Vivekanand College, Kolhapur (Autonomous)						
Departme	ant of Computer Science					
Inter	nal Examination 2021					
Subj	ect. Java Programming					
Class: T.Y.B.Sc. (Sem-V)	D. H. S.					
Time: 30 minutes	Roll Num	ber:				
Q.1. Select correct alternative an	d put it into box given.	rks: 10 08				
1) The keyword allows n	nain() to be called without creation					
a) public, instances	b) void, objects	/ ·				
ک) static, objects	d) static, classes	C				
ii) Which of the following is correct syntax for compiling java program?						
a) java prname 12 c) javac prname.java 12	b) java prname.java					
iii) Which of the following is valid b	header for main() method?	d				
 i. public static void main(S ii. public static void main(S iii. static public void main(S iv. static public void main(S 	tring a[]) tring[] a) tring a[]) tring a[])					
a) only i b) only i, ii	c) i, ii, iii d) i, ii, iii, iv	a				
iv) Select the odd pair of data types f	rom the following:					
byte, short, int, long, float, dou	ible					
a) byte, short b) int c) float, double d) int	t, long , float	C				
v) Name the operators: $<, \&, \parallel, *=$	L					
 a. Conditional, Bitwise, Relational, Bitwise, Relational, Logical, Bitwise, c. Relational, Bitwise, Logical, d. Relational, Bitwise, Bitwi	onal, Assignment , Compound Assignment , Compound Assignment , Assignment	6 C				
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Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science

Internal Examination 2021

Subject: Computer Science (Part-II)

Time: 30 minutes Total Marks: 10 Marks obtained: Q.1. Select correct alternative and put it into box given. i) The following are functions of a DBMS except	Class: F.Y.B.Sc. (Sem-	-1) Date:	6/03/2021	1	Roll Number: 7835	
Q.1. Select correct alternative and put it into box given. i) The following are functions of a DBMS except a) creating and processing forms b) creating databases c) processing data d) administrating database ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called a) data abstraction b) data independence c) both a and b d) none of the above iii) USE keyword is used to select a a) table b) column c) database d) all of the above c iv) is not a data type of MySQL. a) float b) date c) double d) string d	Time: 30 minutes	Total	Marks: 10	1	Marks obtained:	
 i) The following are functions of a DBMS except	Q.1. Select correct	alternative and	d put it into bo	ox given.	×	
 a) creating and processing forms b) creating databases c) processing data d) administrating database ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called	i) The following are	functions of a I	DBMS except_			
c) processing data d) administrating database ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called	a) creating and	d processing for	rms b) cre	ating database	es	
 ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called	c) processing	data	d) adı	ministrating da	atabase	
 ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called	وب					
 a) data abstraction b) data independence c) both a and b d) none of the above iii) USE keyword is used to select a a) table b) column c) database d) all of the above c iv) is not a data type of MySQL. a) float b) date c) double d) string 	ii) The ability to n schema definition	nodify a schem n in the next hig	na definition in ther level is cal	n one level w led	vithout affecting a	
c) both a and b d) none of the above iii) USE keyword is used to select a a) table b) column c) database d) all of the above iv) is not a data type of MySQL. a) float b) date c) double d) string	a) data abstra	action	b) data inde	ependence		
 iii) USE keyword is used to select a a) table b) column c) database d) all of the above C iv) is not a data type of MySQL. a) float b) date c) double d)string d 	\sim c) both a and	lb	d) none of	the above	d.	
 a) table b) column c) database d) all of the above iv) is not a data type of MySQL. a) float b) date c) double d)string 	iii) USE keyword is	used to select a				
iv) is not a data type of MySQL. a) float b) date c) double d)string	a) table b) column	c) database	d) all of the at	bove	
a) float b) date c) double d)string d	iv) is not a c	lata type of My	SQL.		2	
	a) float	b) date	c) double	d)string	g d	
v) is used as default SQL statement delimiter.	v) is used as de	fault SQL state	ment delimiter.			
a); b), c): d). a	a) ;	b) ,	c) :	d) .	0-	
··· ··· ··· ··· ··· ··················	A 2				* .	

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vi) Which of the following is/are the component/s of DBMS?

a) hardware b) software c) data d) All of these d

vii) _____ language is a simple language designed to communicate with database environment.

a) Database Access	b) Communication	
c) both a and b	d) None of these	a

viii) Centralized control of database is exerted by a person or group of persons is referred as _____ and a person or group of persons doing such task is known as_____.

- a) Database administration, Database administrator
- b) Database Observation, Database Observer
- c) Database monitoring, Database monitor
- d) None of these
- ix) Which is/are of the following disadvantages of file system?
 - a) Data redundancy
 - b) Data inconsistency
 - c) Data isolation
 - d) All of these

x) Which is not true about DBMS from the following?

- a) These are large systems
- b) These are single user systems
- c) These systems provides better security
- d) These systems provides better data access

a

d

b

Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science

Internal Examination 2021

Subject: Computer Science (Part-II)

Class: F.Y.B.Sc. (Sem-I) Date: 6/03/2021 Roll Number: 7312 Time: 30 minutes Marks obtained: 7 Total Marks: 10 Q.1. Select correct alternative and put it into box given. i) The following are functions of a DBMS except a) creating and processing forms b) creating databases c) processing data d) administrating database ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called_

a) data abstraction b) data independence b c) both a and b d) none of the above iii) USE keyword is used to select a . d b) column c) database d) all of the above a) table the iv) _____ is not a data type of MySQL. d a) float b) date c) double d)string v) _____ is used as default SQL statement delimiter. b) , c) :

a) :

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a

d) .

aa

vi) Which of the following is/are the component/s of DBMS?

d) All of these a) hardware b) software c) data d language is a simple language designed to communicate with database vii) environment. a) Database Access b) Communication 9 c) both a and b d) None of these viii) Centralized control of database is exerted by a person or group of persons is referred as _____ and a person or group of persons doing such task is known as . a) Database administration, Database administrator b) Database Observation, Database Observer c) Database monitoring, Database monitor a d) None of these ix) Which is/are of the following disadvantages of file system? a) Data redundancy b) Data inconsistency c) Data isolation d d) All of these x) Which is not true about DBMS from the following? a) These are large systems b) These are single user systems c) These systems provides better security d) These systems provides better data access b

Vivekanand College, Kolhapur (Autonomous)

Department of Computer Science

Internal Examination 2021

Subject: Computer Science (Part-II)

Class: F.Y.B.Sc. (Sen	1-I) Da	ate: 6/03/2021	ł	Roll Number: 7328
Time: 30 minutes	Το	tal Marks: 10	Ν	Aarks obtained: 🤭
Q.1. Select correct	alternative	and put it into	box given.	
i) The following are	e functions of	f a DBMS exce	pt	
a) creating ar	nd processing	forms b)	creating databases	3
c) processing	data	d)	administrating dat	abase a
~				
ii) The ability to a schema definition	nodify a sch n in the next	nema definitior higher level is	n in one level wi called	thout affecting a
(a) data abstr	action	b) data i	ndependence	
< c) both a and	db	d) none	of the above	a .
iii) USE keyword is	used to selec	et a		
a) table b	o) column	c) database	d) all of the ab	ove
iv) is not a	data type of N	MySQL.		
a) float	b) date	c) double	d)string	d
v) is used as de	efault SQL sta	atement delimi	ter.	
a) ;	b) ,	c) :	d) .	a

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vi) Which of the following is/are the component/s of DBMS?

a) hardware b) software c) data d) All of these c	a) hardware	b) software	c) data	d) All of these	d
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vii) _____ language is a simple language designed to communicate with database environment.

a) Database Access	b) Communication	
c) both a and b	d) None of these	α.

viii) Centralized control of database is exerted by a person or group of persons is referred as _____ and a person or group of persons doing such task is known as _____.

- a) Database administration, Database administrator
- b) Database Observation, Database Observer
- c) Database monitoring, Database monitor
 - d) None of these

ix) Which is/are of the following disadvantages of file system?

- a) Data redundancy
- b) Data inconsistency
- c) Data isolation

All of these

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x) Which is not true about DBMS from the following?

- a) These are large systems
- b) These are single user systems
 - c) These systems provides better security
 - d) These systems provides better data access

C

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6

	Algorithm
	Assignment No. 1
g 1	What is algorithm ? Explain it. <u>Defination</u> : An algorithm is a finite sequence of well-defined, computer-implementable instructions, typically to solve a class of problems or to perform a computation.
	The term finite means that the algorithm reach an end point and cannot run forever. An algorithm is step by step procedure to solve a given problem. You can find algorithm everywhere in your life, not just in computer science. Eg. The process to make a sandwich. The process to make a cup of tea.
g 2]	Write advantages and disadvantages of algorithm. Advantages of algorithm: If is a step wise representation of a solution to given problem, which makes it easy to understand. If an algorithm uses a definite procedure. If is not dependent on any programming language so it is easy understand for anyone even without any programming language. If Every step in algorithm has its own logical sequence so it is easy to debug. If y using algorithm, the problem is broken down into Smaller pieces or steps hence it is easiar for programmer to convert it into actual programmer.

	Disaduantages of algorithm: JAlgorithm is time consuming. Difficult to show branching and looping in algorithm. Big tasks are difficult to put in Algorithms.
ĝЗ	Write features of algorithm. The Following are the features of a good algorithm
/	<u>J Precision</u> : a good algorithm must have certain out steps. The steps should be exact enough, and not varying.
	2] Uniqueness : each step taken the algorithm should give definite result as stated by the writer of the algorithm. The results should not fluctuate by any means.
	3] Feasibility : The algorithm should be possible and practicable in real life. it should not be abstract or imaginary.
	4] Input : a good algorithm must be able to accept a set of defined input.
	produce results as output, preferably solutions.
	Finiteness : the algorithm should have a stop after a certain number of instructions.

Assignment No. 2

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- g: What is constant ? Give five examples. <u>Defination</u>: Data values that stay the same every time a program is executed are known as constants. constants are not expected to change. Ex. 10. 20. 30. 40. 50 etc.
- g 2] What is variable ? Give two examples. <u>Defination</u> : Variables are data values that can change When the user is asked a question. variables may change during program execution.
 - i) 'Marks' would need to be variable to change through-out a year.
 - ii) 'Age' would need to be variable as change day by day.
- 93 Write an algorithm to print multiplication of 4 Nos. 5, 10, 20, 30 Algorithm to print multiplication of 4 nos. 5, 10, 20, 30.

Step	1	: Start
step	2	: no1 = 10
Step	3	: no2 = 5
Step	4	: no 3 = 15
step	5	: 004 = 20
Step	6	: n05 = 30
step	7	$:ans = no1^* no2^* no3^* no4^* no5$
 Step	8	: print ans
 Step	9	:End.

Classmate Date Page 94 Write an algorithm to print multiplication of 3 ros inputted by user. Algorithm to print multiplication of 3 nos inputted by user Step 1 ! Start Step 2 : Input no 1, no 2, no 3 Step 3 : ans = no 1* no 2 * no 3 step 4 : print ans step 5 End If Input 10, 20, 30 Output 6000 If Input 3, 2, 5 Output 30

	Assignment No. 3
g 1	Write an algorithm to find area and perimeter of rectangle. Length and breadth should be entered by user Algorithm to find area of rectangle, length and breadth entered by user :
	Step 1 : Start Step 2 : Input length Step 3 : Input breadth Step 4 : area = length * breadth Step 5 : perimeter = 2 * (length + breadth) Step 6 : print area. Step 7 : print perimeter Step 8 : End
	IF Input: 4 5 output: 20 18 Input: 6 8 output: 48 28
 <u>9</u> 2	Write an algorithm to find area and perimeter of square Algorithm to find area and perimeter of square.
	Step 1 : Start Step 2 : Input Side Step 3 : area = Side* Side Step 4 : perimeter = 4 * Side. Step 5 : print area. Step 6 : print perimeter

Assignment No. 4
Write an algorithm to enter any number and check whether the number is greater than 10 or not. (eg. Input 2 output "No is not greater than 10.") An algorithm to check whether the number is greater than 10 or not.
Step 1: Start Step 2: Input number step 3: if number > = 10 Yes goto 4 No goto 6 Step 4: print "No. is greater than or equal to 10" Step 5: goto end Step 5: goto end Step 6: print "No is less than 10" Step 7: End
Input - 12 output - 12 is greater than 10. Input - 4 output - 4 is less than 10.
Write an algorithm to enter a year in numeric form and check the inputted year is leap year or not (eg Input 2000 output "leap year") An algorithm to check the inputted year is leap year or not.

classmate Step 1: Start Step 1. Starl Step 2: Input year Step 3 : If year '/. 4 == 0 Yes goto 4 No goto 6 Step 4 : print ("leap year") Step 5 : goto end Step 6 : print ("year is not leap") Step 7 : Fod Step 7 : End Input - 2021 output - year is not leap Input - 2012 output leap year.

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classmate .
            Assignment No 5
g1 Write an algorithm to print Numbers from 1 to 80
    Step 1 : Start
    Step 2: no = 1
   Step 3 : Test if no < = 80
               Yes goto 4
              No goto 7
   Step 4 : print no
   Step 5 : no = no + 1
   Step 6 : goto 3
    Step 7 : End.
    output
    1 2 3 4 5 6 7 ..... 80.
   Write an algorithm to print Numbers from 50 to
g 2
    25 in descending order.
    Step 1: Start
    Step 2 : no = 50
    Step 3 : Test if no > = 25
                 Yes goto 4
                 No goto 7
    Step 4 : print no
    Step 5 : no = no-1
    Step 6 : goto 3
    step 7 : End
    output
```

(3) Write an algorithm to print all even numbers from 10 to 50 Method I : step 1 : start step 2 : no = 10 Step 3 : Test if no <= 50 Yes goto 4 No goto 7 Step 4 : print no step 5 : no = no + 2step 6 : goto 3 Step 7 : End output 10, 12, 13, 16, 18 50 Melhod II Step 1 : Start Step 2 : no = 10 Step 3 : Test if no < = 50 Yes goto 4 No goto 8 step 4 : Test if no % 2 = = 0 Yes goto 5 No goto 6 step 5 : print no step 6 : no = no + 1step 7 : goto 3 Step 8 : End output 10 12 14 16 50

	Python
	Assignment no. 6
Q 1	Print your full name using print statement. >>> Fname = "Sayali" >>> mname = "Shrikant" >>> Iname = "Powar" >>> print (fname, mname, Iname) Sayali Shrikant Powar.
92	Store your name to variable name. storeaddress to variable address, birth date to variable bdate and display it with print statement. >>> name = "Sayali Shrikant Powar" >>> address = " AP Akiwat, ta shirol, dist.kolhapur" >>> bdate = " 3rd april 2002" >>> print ("Name = ", name, "\naddress=", address, "\nbdate=", bdate) Name = Sayali Shrikant Powar address = AP Akiwat, ta shirol, dist.kolhapur bdate = 3rd april 2002.
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Assignment No.7

g1 Write python script to enter 4 sides of quadrilateral and find out perimeter. >>> SI = input ("enter First side") enter first side 8 >>> S2 = input ("enter second side") enter second side 4 >>> S3 = input ("enter third side") enter third Side 10 >>> S4 = input (" enter fourth side") enter fourth side 6 222 peri = 51 + 52 + 53 + 54>>> print (" Perimeter of guadrilateral = ", peri) Perimeter of guadrilateral = 28 92 Write a script to enter item no name quantity and rate calculate net_price. >>> item_no = input ("enter item no=") enter item no= 2 777 name = raw_input (" enter name of item ") enter name of item pencil >>> quantity = input ("enter quantity of item =") enter quantity of item = 15 >>> rate = input ("enter rate of item = ") enter rate of item = 5 >>> net_price = quantity * rate >>> print ("net price =", net_price) net price = 75

3] Write a script to enter four numbers. Find out sum of -Write a script to enter round sumt. Find sum of -1st two numbers store it to sumt. Find sum of last two numbers store it to sum2 Find difference between sumt and sum2 >>> no1 = input ("enter 1st no") enter 1st no 30 >>> no2 = input ("enter 2nd no") enter 2nd no 25 >>> no 3 = input ("enter 3rd no") enter 3rd no 40 >>>no 4 = input ("enter 4th no") enter 4th no 50 >>> Sum1 = no1 + no2 777 Sum 2 = no 3 + no 4 >>> d = Sum 2 - Sum 1>>> print ("difference between", sam1, "and", sum 2, " is", d) difference between 55 and 90 is 35

		Date
		Assignment No 8
G1	Input any nu greater than >>> no = int (in enter any no >>> if (no>=10) prin elif (no<100): prin else: prin	Imber and check whether number is 100 or not. nput ("enter any no")) 102 102 102 102 102 102 102 102
~	102 is greate	er than 100.
<u>9</u> 2	Input marks percentage ar >>> m1 = int (ir marks in 1st >>> m2 = int (i marks in 2nd >>> m3 = int (i marks in 3rd >>> t = m1 + >>> per = t/3 >>> print ("perc percentage = 92	in 3 Subjects calculate total and nd display grade as follows. niput ("marks in 1st subject=")) subject= 96 input ("marks in 2nd subject=")) subject= 88 input ("marks in 3rd subject=")) subject= 92 m2 + m3 centage=". Per) 2.0

CLASSMALO >>> iF(per > 40): print ("Grade = pass") else : print ("Grade = Fail") Grade = pass Input number of books and find out discount as Q3 Follows: if books > 20 Discount = 100 else Discount = 50. >>> books = int (input (" enter no of books")) enter no of books 45 >>> if (books > 20): print ("Discount = 100") else: print ("Discount = 50") Discount = 100

Assignment No. 1

1. What is algorithm? Explain it.
 → An algorithm is a finitle sequence of well
 defined, computer - implementable instructions
 typically to solve a class of problems or
 to perform a computation.
 An algorithm is a step by step procedure
 to solve a given problem.
 The term finite means that the
 algorithm should reach and end point and
 connot run forguer
 Your life, not just a computer science

What advantages and elisadvantages of 2. algorithm Advantuges of algorithm in \rightarrow V algorithm is a stepwise representation of a solution to given problem, 2) it is easy to understand 3) An algorithm uses of definite procedure A Every step in algorithm has its own logical sequences so it is easy to debug. => By using algorithm, the peoblem is broken down Into smaller piece or steps hence it is easy

for programmer to convert it into actual peogrammer * disaduanteges of algorithms : 1) Algorithm is time consuming >> Big tasks are difficult to put in Algorithm > Difficult to show branching and looping in algorithm 3. Write features of algorithm. The fectures of algorithm They are as following: 1) Precision - a good algorithm must have certain outlined steps. The step shuld be exact enough and not ucroying. 2) uniquness - each step taken in the algorithm should give a definite result of Stated by the waiter of the algorithm. the results should not functuate by any means 3) fesibility - the algorithm should be possible f peachicable in seal life. It should not be abstract or Imagin a) Input - agood algorithm must be able to accept a set of defined input

Assignment NO-2 Q 1. What is a constant? Give five example. -> pata values that stay the same every. dime a programe is exacuted are known as Constant. C.g- 1) Algorithum to add 2 nos 100f 200. 300 100 -200 Step 1 : Start Step 2 : X = 200 Step 3 : y = 200 X STEP 4: Z= X+Y SHEP 5: Print I 2) Algorithm to add 2nos 50 \$ 100. 50 150 Step 1: Start + 100 .. Step 2 ; X = 50 × Step 3 = 1 = 100 Step 4: Z= X+Y Step 5 : print Z 3) Algorithm to add 2 inputed values Step 1: Start + Step 2: Input X Step 3: Input y 7 Step 4: Z=x+y SHEP 5 : Print T

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	Data
4>	Algorithm to add inputed values
	? 1 ? = ? .
	$x \rho + q \cdot 2$
	step 1 : Start
	Step 2 : input P
	step 3 : input 9
	Step 4: in R-P+Q
	Step 5: Did D
	ording Kanni Ka

Classmate Date Page Assignment no - 3. Q1. Write an algorithm to find area and perimeter of Ecchangle, Length & breadth should be entred by user. --> step 1: stort step 2: Input length Step 31 Input breadth step 9; area = Jensth x breadth Step 5: Persimeter = 2X (Jenoth J breadth) Step 6; Print great, pormeter Step 7: End. Q2. Waite an algorithm to find area and perimeter of square \rightarrow Step 1: Start step 2: Input Side Step 3: apred = Side × Side Step G: perimeter = Gx side step 5: Print grea & perimeter step 6: End.

Assignment No - 4. Q1. Write an algorithm to entre any numbers to and check Whether the number is greater than 10 DE not. > Step 1 : stoot step 2 : Input number 10 Step 3 : If number >= 10 YES GOTO 4 No Goto 6 Step 4 : Peint "No is greater than or equal to 10" Step 5 : Goto end Step 6: Peind No is less them 10 Step 7: End Q2. Write an algorithm to entre a year in numeric form & check the inputed year is leap year or not -> step 1: start step 2: Input year Step 3: 15 Jean 1.4 == 0 yes goto 4 NO goto 6 Print year is leap step s: soto end

Assignment No - 5 SI. Write an algorithum to print number from 1 to 80 -> step 1: start Step 2: no= 1 3408 3: Test if no <= 80 yes goto 4 NO BOTO 7 step G: Point no= noti ster 6: goto 3 Step 7: End. Write our algorithm to print number from Q2) 50 to 25 in descending order \rightarrow step 1 : start Step 2: Te no: 50 Step 3: Test In number 2=25 yes goto g NO DOTO 7 step G: no=no=1 Print No Step S: soto 3 no= no-1 Step 6: 30to 3 STEP 7 : End

oythop Python assignment No - 1 a 1) Peint your full name using peint statement -> Stand Stand >>> fname=("shubham" >>> Mname=" Shashikan;" >>> Iname : " Koze" >>> Point = (frame, mname, Iname) Shybham Shushikant koze. Q 2) store your name to variable name, store address to variable doldress, birth date. to variable belate & display it with Print statement. XXX STOP >>> name = "shubham" kore" >>> address = " A.P Kaskaby syngaon, tal- kay dist kolhapyr" >>> bdate = 11th Jully 2002 >1> Point (name, address, bdate)

Page Python assignment No - 1 Peint your fullname using peint statement Q 1> Stand >>> fname=("shubham" >>> mname="shashikan;" >>> Iname = "Koze" >>> Point = (frame, mname, Iname) Shybham Shushikant kore. @ 2) store your name to variable name, store address to variable doldress, birth date. to variable belate & display it with Print statement. -> XXX STOP >>> name = "shubham" Koee" >>> address = " A.P Kaskiby sungaon, tal- kay dist kolhapur" >>> bdate = 11th Juliy 2002 >1> point (name, address, bdate)

Page_ Python- assignment - 2 ce 1. write Python Script to enter 4 sides of anadniatoral & find out perimeter >>> s1 = int (input ("Enter 1st side")) -> Enter 1st side · 8 >>> S2 = int (input ("Enter 2nd side")) Enter and side 4 >>> s3 = int Cinput ("Enter 3rd side") Enter 3rd side 6 >>> sq = int Cinput (" Enter xth side")) Enter 4th side 5 >>> Print (" perimeter of quadrilateral := SI+S2+S3+54) Perimeter of quadrilateral = 23 Q2. Write script to enter etem_no, name, qty Rate, culculate net price, >>> I = int ("input item no") >>> I = · int (input ("Enter item no") Enter item no 7 SAN = int (input ("Enter name of item") Enter Name of item bulb >>> q = int (in put (" Enter quantity") Enter quantity 10 >>> R = int (input ("Enter Rate") Enter Rate 30

Date Page Python assignment 3. 1. Input any number and check whether num is greater than 100 or not >>> x = int (input (" Enter number")) ~ Enter number 98 >>> if (x>100); Print (x, "is greater than 100") elif (X < 100): Print (X, "is not greater than 100") elif Print (x," is 100") 98 is not greater than 100 2. Input marks in 3 subject Calculate tota and percentage & display grades as four if Perk 40 Grade = "FAIL" else Grade= "PASS" -> Enter marks ist ("Enter marks in subjed" Enter mysky in subject 40 >>> M2 = int (input ("Enter marks in 2"d subject")) Enter marks in 2nd subject 70

Assignment 1

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Q.1	What is algorithm? Explain it.
\Rightarrow	An algorithm is a finite sequence of well-defined, computer-
	implementable instructions, typically to solve a class of
	problems or to perform a computation.
	The term finite means that the algorithm should
	reach an end point and cannot run forever.
	An algorithm is a step by step procedure to
	solve a given problem
	eg., The process to make a sandwich.
Q.2	Write advantage and disadvantage of algorithm.
⇒.	Advantage of algorithm -
	1. It is step wise representation of a solution to
	given problem, which makes it easy to understand.
	2. An algorithm uses a definite procedure
, i	3. It is not dependent on any programming language so
	it is easy to understand for anyone even without
	any programing language.
1	1. Every step in algorithm has its own logical sequence
-	So IL IS Easy to depug
	isto smaller pieces er steps banco it is again for
	This smaller pieces of steps hence, it is easily for
	programmer to convert it millo actual programmer.
1)isadvantages of algorithm -
	Algorithm is time consuming.
2	. Difficult to show branching and looping in algorithm.
3	· Big tasks are difficult to put in algorithms

classmate Q3 Write features of algorithm => The following are the features of a good algorithm. 1) Precision - a good algorithm must have a certain outlined steps. The steps should be exact enough & not varying. 2. Uniqueness - each step taken in the algorithm should give a definite result as stated by the writer of the algorithm. The result should not fluctuate by any means. 3. Feasibility - the algorithm should be possible & practicable in real life. It should not be abstract or imaginary. 4. Input - a good algorithm must be able to accept a set of defined input. 5. Sutput - a good algorithm should be able to produce result as output, preferably solutions. 6. Finiteness - the algorithm should have a stop after a certain number of instructions. 7. Generality - the algorithm must apply to a set

0.4 Write an algorithm to make a pizza. => algorithm to make a pizzastep 1 - start step 2 - Take the dough out & roll it into a circle step 3 - Puff out the edge of the dough so the crust is thicker at the edge. step 4 - Pre-heat oven to 250-260 °C step 5 - Put on the pizza sauce cheese, & toppings step 6 - Put the pizza on the pizza stone in the oven step 7 - Bake for 30 minutes or until pizza is crispy& golden brown. step 8 - Eat it 1 step 9 - End.

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Assignment-2

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q1. What is constant? Give five examples. => Data values that stay the same every time a program is executed are known as constant. constants are not expected to change. In computer programming, a constant is a value that cannot be altered by the program during normal execution. eg., 1. The data value "hello world" has been fixed into the code. 2. The unit of gravity 3. The value of TT 4. The amount of time allowed for a level in a game. 6. Suppose addition of two no.s i.e addition of 20 & 40 in this the no.s 20 & 40 are the constant. Q.2 What is variable? Give two examples. Variables are data values that can change when \Rightarrow the user is asked a question, Variable may change during program execution. A variable is a memory location. It has a name that is associated with that location. The memory loction is used to hold data eg., I. The 'age' 2. 'marks' would need to be varriable to change throughout a year. 3. The salary goes on changing

	Page
Q. 3	Write an algorithm to print multiplication of 4 nos. $5,10, 20, 30$ Step 1 - Start Step 2 - no 1 = 5 Step 3 - no 2 = 10 Step 4 - no 4 = 20 Step 5 - no 4 = 30 Step 6 - ans = $5 \times 10^{4} 20 \times 30$ Step 7 - Print ans Step 8 - End
	Output - 30,000
Q.4 ⇒	Write an algorithm to print multiplication of 3 nos. inputted by user. Algorithm to print multiplication of 3 nos. inputted by user. Step 1 - start Step 2 - Input nol, no2, no3 Step 3 - ans = no1* no2 * no3 Step 4 - Print ans step 5 - End
	If input 5, 15, 20 output is 1500 If input is 27, 18, 9 output is 4374
	Assignment-3 () Date ()
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9.1 7	Write an algorithm to find area & perimeter of rectangle. Length & breadth should be entered by user. Algorithm to calculate area & perimeter of rectangle inputed by user. Step 1 - start Step 2 - input length, breadth Step 3 - area = length * breadth Step 4 - perimeter = 2 (length + breadth) Step 5 - Bint area, perimeter Step 6 - End.
	If input is $l = 38$, $b = 12$ then output area = 456 & perimeter = 100 If input is $l = 23$, $b = 11$ then output area = 253 & perimeter = 68
G.2 ⇒	Write an algorithm to find area and perimeter of square. Algorithm to find prea and perimeter of squre. Step 1 - start Step 2 - Input side Step 3 - Area = side * side Step 4 - Perimeter = 4* side Step 5 - Print area, perimeter Step 6 - End.

classmate) Date -----Assignment 4 Q1 Write an algorithm to enter any number and check wheather the number is greater then 10 or not (eg Input 2 output" No. is not greater than 10") => Step 1 : start Step 2: input no step 3: if number >=10 yes goto 4 No goto 6 Step 4 : Print "Nois greater equal to 10" step 5: goto end step 6 : Print "No is smaller than 10" step 7: end input no = 12 output - 12 is greater than 10. Q.2 Write an algorithm to enter a year in numeric form & check the inputted year is leap year or not. => step1 : start step 2 : Input year step 3 : If year % 4=0 yes goto 4 no goto 6 step 4 : Print "leap year" step 5: Goto end step 6: Point "year is not leap" step 7: end. Input : 2021 Output : year is not leap.

Page Assignment - 5 Q1 Write an algorithm to print number from 1 to 80 => step 1 : start Step 2 : no= 1 step 3: test if no < 80 yes goto 4 no goto 7 Step 4 : Print no Step 5 : no=no+1 step6: goto 3 step7: end Input: 1,2,3,.... 80. Q2 Write an algorithm to print no. from 50 to 25 in decresing order. => step1: start step 2: no = 50 step 3: test if no>=25 yes goto 4 no goto 7 step 4: print no step 5: no = no -1 step 6 : goto 3 step 7 : end Out put : 50,49, 48,....,25.

Assignment -6 Q-1 Print your full name using print statment. => >>> fname = "Gayatri" >>> mnqme = "Ananda" >>> Iname =" Patil" >>> Print (fname, mname, lname) Gayatzi Ananda Patil Q.2. Store your name to variable name store address birthdate to variable bdate & display it with print statment >>> name = " Gayatri Patil" \Rightarrow >>> address = " Bapuram Nagar Kalamba Road, Kolhap >>> bdate = "27-6-2002" >>> print ("Name :-", name "In Address:-", address, "In Birtholate:-", bdate) Output Name :- Gayatri Patil Address: - Bapuram Nagar Kalamba Road, Kolhapur. Bisthdate: - 27-6-2002

	Assignment - 7 (() Date ()
Q.1 =>	Write Python script to enter 4 sides of quadrilateral & find out perimeter. >>> si= int(input("enter 1st side")) enter 1st side 8
	>>> Sy = int(input("enter 2"d side")) enter 2"d side 4 >>> Sy = int(input("enter 3"d side")) enter 3"d side 3
	enter 4th side 6 >>> Print (" Perimeter of quadrilateral = ", S, +S, +S, +S, 4) perimeter of quadrilateral = 21
Q.2.	Write Script to enter item-no, name, qty & rate,
	>>> I = int (input ("enter item-no")) enter item no. 2 >>> N = int (input ("enter name of item")) enter name of item Notabook
	>>> Q = int (input ("enter quantity")) enter quantity 4 >>> R = int (input ("enter rate of item")
	<pre>enter rate of them 35 >>> Print ("Net price = ", Q*R) Net price = 140</pre>

Assignment-8

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Q1 Input any no. & check wheather no. is greater than 100 or not. >>> x = int (input ("enter no=")) enter no= 98 >>> if (x>100) print (x," is greater than 100") if (x<100) print (X," is not greater than 100") elso x=100 print (X," is 100") 98 is not greater than 100. G2. Input markes in 3 subject cal. total & percentage & display grade as follows -JF per < 40 Grade = "FAIL" else Grade = "Pass" =>>> M1 = int (input ("enter marks in 1st subject")) enter marks in 1st subject 80 >>> M2 = int (input ("enter marks in 2nd subject ")) enter marks in 2nd subject 90 >>> M3 = int(input ("enter marks in and subject")) enter marks in and subject 85 >>> print ("Total =", M, +M2 + M3) Total = 25.5 >>> print ("percentage =" (M, + M2+M3)/3) percentage = 85 % >>> if (percentage <40) print ("Grade = FAIL") else (percentage >= 40) print ("Grade = Pass") Grade = Pass