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## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025 Programme - Dip.RA-2022 Course Name – Programming for IOT Course Code - ECOE601B (Semester VI)

Time: 2:30 Hours Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A 1 x 15=15 (Multiple Choice Type Question) 1. Choose the correct alternative from the following: (i) Identify the official website to download Python. a) www.python.org b) www.python.com c) www.downloadpython.com d) www.python-install.org (ii) Select the command to check the installed Python version. a) python --check b) python -V c) python --show-version d) python -ver (iii) Choose the Python command to run a script named script.py. a) python script.py b) run script.py c) execute script.py d) python -run script.py (iv) Choose the logical operator that returns True if at least one condition is True. a) and b) or d) nor c) not (v) Identify the correct syntax for a nested if statement. a) if condition1: if condition2: b) if condition1: \n if condition2: c) if condition1, if condition2: d) if (condition1 && condition2): (vi) Select the operator that checks for equality in Python. a) =b) == (vii) Identify the correct way to pass multiple parameters to a function. a) def myFunc(x, y): b) def myFunc(x; y): c) def myFunc(x & y): d) def myFunc(x y): (viii) Select the default parameter in def myFunc(x, y=10):. a) x b) y c) Both x and y d) None

(ix) Select the correct term for a class that is inherited by another class.

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re Ur	nivers	alty	2.29	
olkal	a -/00	89.84	b) Subclass	
	a)	Superclass	d) Parent class	
	c)	Superclass  Derived class  Jentify what happens when a subclass does not leave to the subclas	ot override a parent class we are	
	(x) lc	lentify what nappens when and used as-is	b) The subclass cannot use it	
	a)	The method is inherited and used as-is	d) The subclass must redefine it	
	c)	The program crashes	i.	
	(xi) S	The program crashes elect the command to change file permissions	b) chown	
		chmod	d) chperm	
	(xii) S	chgrp elect the command to kill a process using its I	b) terminate	
		kill	d) end	
	c)	stop	action in Tkinter.	
	viii) lo	stop dentify the event that triggers a button press	L) click()	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	onPress	<ul><li>b) click()</li><li>d) event.trigger()</li></ul>	
	(-) <sub>1</sub>	<b>_</b>	a) eventurings - to	
	(C)	command dicate the default port used by Apache.		
1			b) 80	
	a)	22	d) 8080	
	c)	443 elect the command to install the Raspberry F	i camera module.	
2.5	(xv) S	elect the command to motor	b) install-camera	
	a)	sudo raspi-config	d) enable-picam	
	c)	setup-cam-module		
			oup-B	3 x 5=15
		ICh art Answer	Type Questions)	2 × 2-12
		(Short Allswei	7,6	
			Laslean value in Python.	(3)
		cate which logical operator is used to invert	a poolean value m. ,	(3)
2	, inaic	cate which logical operator is used to inverse ain how Tkinter is used to create a GUI appl	ication in Fython.	(3)
3	Expi	ain how Tkinter is used to create a correct tify the steps to install Python on a Window ognize the command used to list all connect	ys system.  Name of the second system of the	ng (3)
4	, Iden	thy the steps to	ed hardware devices on a service	
5	. Reco	ignize the comme		(3)
	the s	hell. rate the differences between Raspberry Pi	and Arduino.	
6	. Illust	rate the differences poor	OR PLOS	(3)
		Genefusing an operating syste	m like Raspberry Pi OS.	
	Expla	ain the benefits of using an operating syste		
		Gr	oup-C	5 x 6=30
		/I and Answel	Type Questions)	2 X 0-20
		(Loug Allawei	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				(5)
		lain any three built-in modules with examp	oles.	(5)
7.	Exp	lain any three built-in modules with example in any three built-in modules with example in a python lain the different types of errors in Python	with examples.	(5)
8.	Exp	lain the different types of errors in Python and to navigate the Linux file system using	the command line.	(5)
9.	F	and to navigate the Linux inc 3)	- tPi	(5)
10	0:	wee the role of the operating system	p: and why is it important.	
11	Disc	uss the Graphical User Interface (GOI) III	in remote camera access over the interne	et. (5)
12	Evnl	cuss the Graphical User Interface (GUI) in I cuss the Graphical User Interface (GUI) in I lain the challenges and security concerns	OR	
12	LAPI		UK water works	(5)
	٠ :	ain how a simple internet-based camera	access system works.	
	Expl	all now a simple mean		