austion 1 Durines various feartures of Pythan.

Python is a high-level programming language. It is very easy to bearn the language as compared to other languages like C, CH. Jana, etc. It is also a divideper-friendly language.

2- Object-arrented language.

and of the features of perthan is object-arrented programming.

Pythan supports object-arrented language and concepts of classes, objects, etc.

3- Extensible feature.

Pythan is a extensible language, We can write to same bythan code into Core C++ language and also we can compile that code in C/C++ language.

- 4- Pythan is Portable language.

 Pythan language is also partable language. Far is if we have

 pythan code for windows and if want to run this code on

 ather platforms such as himse, Unioc, Mac then we do not meed

 to change it, we can run this code on any platform.
 - 5- Python is integrated language because we can easily integrated paythan with other languages like C. CH. etc.
 - 6- Dynamically Typed language-Pythan is a dynamically-typed language. That means the type for a variable is decided at run time mot in advanced.

Q-2- tempore between Java, Cand Pythan.

Ans Jana

- (Reasonably high level language
- (i) Providuralidians only available within mithods of ichasu.
- iii) Object arunted programming.
- W) All base types varialways passed by value, while all other types are always passed by object suprence.
- V) Autamatic memory albeation.
- VI) Sawca is compiled into a byte code that is own on a virtual machine.
 - VII) Java program campiler a bit slaver than

- i) Very law Irel language
- procedural
- Tii) Perocedural programming language
- IV) Everything pass by Value, if origining a sufuence thin pass the painter raddress of the variable by Value and durforma it inside function.
- V) All memory management must be done manually ar through extra libraries.
- VI) C is campilled language. It is met platform dependent.
- VII) Cis a fustist compiling programming language.

Pythan

i) luy high level Janguage

- (i) Exclusively structured is Structured procedural
 - iii) abject ariented Prostamming
 - (V) Pass by abject / Object objevence when issuing orguments to functions.
 - V) Automatic memory allocation.

W) Interpreted - a. program written in lythan can be sun on any platferm that has a Pythen interpreter. VII) Due to use of is slower

Question 3 - Discuss input and autput formats in pythan.

And Imput from user in Paythan-

- i) Puttion get user input neith a missage -Ex- mant = input (" Enter your name")
- (i) Integer input in pythan-Ex- num= int (input ("Enter a number"))

How to display autput in Python-

i) Using farmatted string literalspythan string farmatting using F string-

Far hame = 'Kunal'

print (f 'Hello (mame)! How are you?')

Hello Kural! How are you?

(i) Using farmat()

pythen string farmatting using farmat() function

Example a=20 b=10 bum=a+bdif=a-b

print ('The value of a is () and b is (3'. farmat(a,b))
print (' [23 is the sum of (0) and { 1}'. farmat(a,b,sum))

The value of a is 20 to and b is 10 30 is the sum of 20 and 10

iii) Using 1. appratase.

4 1. d - untiger

1 1. f + float

1 1. S - Strung

1 1. X - horadecimal

1 1. 0 - actal

For num= int (input (" Enter a Value"))

radd= num +5

print(" The sum is 1. d" 1. add)

Output-Enter a value : 50 The sum is 55

- B-4- Discuss the functions
 - a) id () b) type () max() d) min () e) eval
 - ford() gl bin() th retr() i)act() j) text)
- Any a) id() Returns memory location of an abject
 - b) type Returns the type of an abject
 - c) max () Returns the largest item in an iterable.
 - d-) min() Returns the smallest item in an iterable
 - e) eval- Erraluates and societies van expression
 - Y ard () converts an integer representing the unicade of the specified character
 - 9) bin () Returns the binary version of a number
 - h) chel)- Returns a reharacter from the specified unicode rode.
 - i) act () converts a mumber into an actal.
 - i) here() converts a number into a hiscadecimal value.