Sure, here are the **answers only**:

1. a
2. c
3. Serialization
4. d
5. a
6. b
7. c
8. a
9. a
10. c
11. c
12. a
13. c
14. b
15. b
16. d
17. c
18. c
19. **EOFError (End Of File Error)** occurs when the input() function hits an "end of file" condition (no data is provided) and there's nothing left to read.

**Example:**

try:

while True:

data = input()

except EOFError:

print("No more input.")

20.  **seek(offset, whence=0)**: Moves the file pointer to a specific position.

 **tell()**: Returns the current file pointer position.

f = open('sample.txt', 'rb')

f.seek(5) # Move to 5th byte

print(f.tell()) # Output: 5

f.close()

21. The flush() method forces the program to write data from the buffer to the file immediately.

Example:

f = open("file.txt", "w")

f.write("Hello")

f.flush() # Ensures "Hello" is written to disk immediately

f.close()

22.30

23.

| **Positional Argument** | **Default Argument** |
| --- | --- |
| Values assigned based on position | Values assigned if not provided by the caller |
| **Example:** def add(a, b): | **Example:** def add(a, b=5): |
| add(2, 3) → a=2, b=3 | add(2) → a=2, b=5 |

24. for name in ['Shruthi', 'Priya', 'Pradeep', 'Vaishnav']: # Changed ) to ]

print(name) # print name → print(name)

if name[0] == 'P': # = → ==

break

else:

print('Over') # " → '

print("Done")

25. **Possible outputs:**

* If BEG=0, END=2 → 10@20@
* If BEG=1, END=3 → 20@30@
* If BEG=2, END=4 → 30@40@

Max value:(a),(c)

**26.**

import pickle

def add\_record():

with open('Stu.dat', 'ab') as f:

rollno = int(input("Enter roll number: "))

name = input("Enter name: ")

marks = float(input("Enter marks: "))

pickle.dump((rollno, name, marks), f)

**27.**

import pickle

def countrec():

with open('salary.DAT', 'rb') as f:

try:

while True:

emp = pickle.load(f)

if emp[2] > 20000:

print(emp)

except EOFError:

pass

**28.**

def count\_lines():

w, h = 0, 0

with open("Country.txt", "r") as f:

for line in f:

line = line.strip()

if line.startswith(('W', 'w')):

w += 1

elif line.startswith(('H', 'h')):

h += 1

print("W or w:", w, "H or h:", h)

**29.**

def AMCount():

a\_count = m\_count = 0

with open("STORY.TXT", "r") as f:

for ch in f.read():

if ch in 'Aa':

a\_count += 1

elif ch in 'Mm':

m\_count += 1

print("A or a:", a\_count, "M or m:", m\_count)

**30.**

def word\_vowel\_consonant():

vowels = 'aeiouAEIOU'

with open("DATA.TXT", "r") as f:

for line in f:

for word in line.split():

v = sum(1 for ch in word if ch in vowels)

c = sum(1 for ch in word if ch.isalpha() and ch not in vowels)

print(f"{word} - Vowels: {v}, Consonants: {c}")

**31.a Output:**

New String is : iNdiA%\*\*\*\*

**31.b Difference between break and continue:**

* **break**: Exits the loop completely.  
  **Example:**
* for i in range(5):
* if i == 3:
* break
* print(i) # Output: 0 1 2
* **continue**: Skips the current iteration and continues with the next.  
  **Example:**
* for i in range(5):
* if i == 3:
* continue
* print(i) # Output: 0 1 2 4

**32.a Output:**

Now@44 #11

Now@33 #22

Now@44 #55

Now@11 #44

**32.b Any three rules for naming an identifier in Python:**

1. Must begin with a letter (A–Z or a–z) or an underscore (\_).
2. Cannot begin with a digit.
3. Cannot use Python keywords or special characters (like @, $, %).

**33.a Output:**

banana

nanba

**33.b Output:**

{'biscuit': 3, 'cake': 4}

{'jam': 4}

{'box': {'biscuit': 3, 'cake': 4}, 'jars': {'jam': 4}}

**34.a Difference between readline() and readlines():**

* **readline()**: Reads one line at a time.  
  **Example:**
* f = open("file.txt", "r")
* print(f.readline())
* **readlines()**: Reads all lines and returns them as a list.  
  **Example:**
* f = open("file.txt", "r")
* print(f.readlines())

**34.b Python program to count the word “if”:**

count = 0

with open("abc.txt", "r") as f:

for line in f:

words = line.lower().split()

count += words.count("if")

print("Count of 'if':", count)

**35.a Difference between mutable and immutable data types:**

* **Mutable**: Can be changed after creation.  
  **Example:** list, dict
* a = [1, 2]; a[0] = 10
* **Immutable**: Cannot be changed after creation.  
  **Example:** int, str, tuple
* a = "hello"; a[0] = "H" → Error

**35.b Most appropriate list methods:**

* **(a)** remove(element)
* **(b)** pop(2)
* **(c)** insert(0, element)
* **(d)** extend(other\_list)