# Summer Assignment 12<sup>th</sup> Biology

**General Instructions:** 

- Follow the biology syllabus thoroughly.
- Follow all instructions sincerely.

### A. Biology Practical File Preparation

During your summer holidays, prepare a **Biology Practical File** as per the following guidelines: **File Preparation Guidelines:** 

- 1. All experiments must be written in the given sequence.
- 2. Start each new experiment on a new page.
- 3. Use the:
  - Unruled page for:
    - Diagrams
    - Observation tables
    - Calculations
  - **Ruled page** for the remaining content (aim, materials, procedure, etc.).
- 4. The file should be **neat, clean**, and **properly covered**.
- 5. Date of experiment and date of submission will be filled in during regular classes.
- 6. Spotting exercises will be done after reading in a planned and systematic manner.

### **B. Investigatory Project**

In addition to the practical file, prepare an **Investigatory Project** based on any topic from your syllabus.

Instructions:

- 1. Get the topic approved by your mentor before starting the project.
- 2. A list of suggested topics will be shared separately.

### C. PowerPoint Presentation

Prepare a 10-minute PPT presentation based on your investigatory project.

• Ensure your topic is **different** from others to **avoid duplication** or **clashes**.

Class : XII

Inverse Trigonometric FunctionsSUBJECTIVE TYPE QUESTION1. Find the principal value of $\cos^{-1}x$ , for18. Find the value of x which tion $\sin^{-1}x + \sin^{-1}(1-x)$ 19. Solve the equation	satisfy the equa- = $\cos^{-1} x$ .
<b>SUBJECTIVE TYPE QUESTION</b> <b>1.</b> Find the principal value of $\cos^{-1}x$ , for <b>18.</b> Find the value of $x$ which tion $\sin^{-1}x + \sin^{-1}(1-x)$ <b>19.</b> Solve the equation	satisfy the equa- = $\cos^{-1} x$ .
$x = \frac{\sqrt{3}}{2}.$ $\sin^{-1} 6x + \sin^{-1} 6\sqrt{3}x = -\frac{\pi}{2}$	
<b>2.</b> Evaluate $\tan^{-1}\left(\sin\left(\frac{-\pi}{2}\right)\right)$ . <b>20.</b> Show that	sin a cos ß
<b>3.</b> Find the value of $\cos^{-1}\left(\cos\frac{13\pi}{6}\right)$ .	$= \tan^{-1} \frac{\sin\alpha \cos\beta}{\cos\alpha + \sin\beta}$
<b>4.</b> Find the value of $\tan^{-1}\left(\tan\frac{9\pi}{8}\right)$	$-$ )+cos <sup>-1</sup> $\left(\frac{-5\pi}{6}\right)$
<b>5.</b> Evaluate $\tan(\tan^{-1}(-4))$ . <b>22.</b> Evaluate $\cos\left[\cos^{-1}\left(\frac{-\sqrt{3}}{2}\right)\right]$	$\left( + \frac{\pi}{6} \right)$
<b>7.</b> Evaluate: $\sin^{-1}\sqrt{3} - \sec^{-1}(-2)$ . <b>23.</b> Prove that $\cot\left(\frac{\pi}{4} - 2\cot^{-1}\right)$	$\left(3\right) = 7$
8. Prove that $\tan(\cot^{-1}x) = \cot(\tan^{-1}x)$ . State with reason whether the equality is valid for all values of $x$ . 24. Find the value of $\tan^{-1}\left(-\frac{1}{\sqrt{3}}\right) + \cot^{-1}\left(\frac{1}{\sqrt{3}}\right)$	+ tan <sup>-1</sup> $\left( sin \begin{pmatrix} -\pi \\ 2 \end{pmatrix} \right)$
<b>9.</b> Find the value of $\sec\left[\tan^{-1}\frac{y}{2}\right]$ <b>25.</b> Find the value of $\tan^{-1}\left(\tan^{-1}\frac{y}{2}\right)$	$\left(n\frac{2\pi}{3}\right)$
ate $\tan\left(\cos^{-1}\frac{8}{17}\right)$ . <b>26.</b> Show that $2\tan^{-1}(-3) = \frac{-1}{2}$	$\frac{\pi}{2}$ + tan <sup>-1</sup> $\left(\frac{-4}{3}\right)$
<b>11.</b> Find the value of $\sin\left[2\cot^{-1}\left(\frac{-5}{12}\right)\right]$ <b>27.</b> Find the real solution of the tan <sup>-1</sup> $\sqrt{x(x+1)} + \sin^{-1} \sqrt{x}$	e equation $\overline{x^2 + x + 1} = \frac{\pi}{2}.$
<b>12.</b> Evaluate $\cos\left[\sin^{-1}\frac{1}{4} + \sec^{-1}\frac{4}{3}\right]$ <b>28.</b> Find the value of expression	on
<b>13.</b> Prove that $2\sin^{-1}\frac{3}{5} - \tan^{-1}\frac{17}{31} = \frac{\pi}{4}$ <b>29.</b> If $2\tan^{-1}\frac{1}{3} + \cos(\tan^{-1}\frac{\pi}{3})$	2√2)· (2 cosec θ), then
<b>14.</b> Prove that $\cot^{1} 7 + \cot^{1} 8 + \cot^{1} 18$ = $\cot^{1} 3$ . <b>15.</b> Which is greater than $\tan 1$ or $\tan^{-1} 1$ ?	n is any integer.
<b>16.</b> Find the value of $sin\left(2tan^{-1}\frac{2}{3}\right) + cos(tan^{-1}\sqrt{3})$ <b>30.</b> Show that $\left(2tan^{-1}\frac{1}{7}\right) = sin$ <b>31.</b> Solve that the following equations:	$n\left(4\tan^{-1}\frac{1}{3}\right)$ uation cos(tan <sup>-1</sup> x)
<b>17.</b> Solve for $x : \tan^{-1}\left(\frac{1-x}{1+x}\right) = \frac{1}{2} \tan^{-1} x, x > 0$ $= \sin\left(\cot^{-1} \frac{3}{4}\right).$	

arget:

# **Inverse Trigonometric Functions**

**32.** Prove that  

$$\tan^{-1}\left(\frac{\sqrt{1+x^{2}}+\sqrt{1-x^{2}}}{\sqrt{1+x^{2}}-\sqrt{1-x^{2}}}\right) = \frac{\pi}{4} + \frac{1}{2}\cos^{-1}x^{2}.$$
**33.** Find the simplified form  

$$\cos^{-1}\left(\frac{3}{5}\cos x + \frac{4}{5}\sin x\right),$$
where  $x \in \left[\frac{-3\pi}{4}, \frac{\pi}{4}\right].$ 
**34.** Prove that  $\sin^{-1}\frac{8}{12} + \sin^{-1}\frac{3}{5} = \sin^{-1}\frac{77}{85}.$ 
**35.** Show that  $\sin^{-1}\frac{8}{12} + \sin^{-1}\frac{3}{5} = \sin^{-1}\frac{77}{85}.$ 
**36.** Prove that  $\tan^{-1}\frac{1}{4} + \tan^{-1}\frac{2}{9} = \sin^{-1}\frac{1}{\sqrt{5}}$ 
**37.** Find the value of  $4\tan^{-1}\frac{1}{5} - \tan^{-1}\frac{1}{229}$ .  
**38.** Show that  $\tan\left(\frac{1}{2}\sin^{-1}\frac{3}{4}\right) = \frac{4-\sqrt{7}}{3}$  and justify why the other value  $\frac{4+\sqrt{7}}{3}$  is ignored?  
**39.** If  $a_{1}, a_{2}, x_{2}, \dots, n$ , is an arithmetic progression.  
 $\tan\left[\tan^{-1}\left(\frac{d}{1+a_{1}a_{0}}\right) + \tan^{-1}\left(\frac{d}{1+a_{0}a_{0}}\right)\right]$   
 $\tan\left[\tan^{-1}\left(\frac{d}{1+a_{1}a_{0}}\right) + \tan^{-1}\left(\frac{d}{1+a_{0}a_{0}}\right)\right]$   
**15.** The principal value of the expression  $\cos^{-1}(\cos\left(\frac{43\pi}{5}\right))$  is  
**36.** Show that  $\tan\left(\frac{1}{2}\sin^{-1}\frac{3}{2}\right) = \frac{4-\sqrt{7}}{3}$  and justify why the other value  $\frac{4+\sqrt{7}}{3}$  is ignored?  
**37.** Find the value of  $4\tan^{-1}\frac{1}{5} - \tan^{-1}\frac{12}{29}$ .  
**38.** Show that  $\tan\left(\frac{1}{2}\sin^{-1}\frac{3}{4}\right) = \frac{4-\sqrt{7}}{3}$  and justify why the other value  $\frac{4+\sqrt{7}}{3}$  is ignored?  
**39.** If  $a_{1}, a_{2}, x_{2}, \dots, n$ , is an arithmetic progression.  
 $\tan\left[\tan^{-1}\left(\frac{d}{1+a_{1}a_{0}}\right) + \tan^{-1}\left(\frac{d}{1+a_{0}a_{0}}\right)\right]$   
 $\tan\left[\tan^{-1}\left(\frac{d}{1+a_{1}a_{0}}\right) + \tan^{-1}\left(\frac{d}{1+a_{0}a_{0}}\right)\right]$   
**17.** Which of the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**18.** Which of the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**19.** Which of the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**10.** Which of the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**11.** Which of the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**12.** Which of the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**13.** More the following cresponds to the principal value branch to  $\tan^{-2}$ .  
**14.** The value of  $\cot(\sin^{-1} x)$  is (a)  $\left(\frac{\pi}{2}, \frac{\pi}{2}, \frac{\pi}{2}\right\right)$  (b)  $\left(-\frac{\pi}{$ 

Class	s : XII	Inverse Trigonor	metric	Functions JF	irgei: EE (Main/Adv.), CA-CPT
9.	The principal value of	$\sin^{-1}\left(\frac{-\sqrt{3}}{2}\right)$ is	17.	The value of tan	$\cos^{-1}\frac{3}{5} + \tan^{-1}\frac{1}{4}$ is
	(a) $-\frac{2\pi}{3}$	(b) $-\frac{\pi}{3}$		(a) $\frac{19}{8}$	(b) $\frac{8}{19}$
	(c) $\frac{4\pi}{3}$	(d) $\frac{5\pi}{3}$		(c) $\frac{19}{12}$	(d) $\frac{3}{4}$
10.	The greatest and lease $(\cos^{-1} x)^2$ are respective	t value of (sin <sup>-1</sup> x) <sup>2</sup> + vely	18.	The value of the e (tan⁻¹ 1))] is	expression sin [cot <sup>-1</sup> (cos
	(a) $\frac{5\pi^2}{4}$ and $\frac{\pi^2}{8}$	(b) $\frac{\pi}{2}$ and $\frac{-\pi}{2}$		(a) 0 1	(b) 1
	(c) $\frac{\pi^2}{4}$ and $\frac{-\pi^2}{4}$	(d) $\frac{\pi^2}{4}$ and 0		(c) $\overline{\sqrt{3}}$	(d) $\sqrt{\frac{2}{3}}$
11.	Let $\theta = \sin^{-1} (\sin (-60))$	0°), then value of $\theta$ is	19.	The equation tan-1	$x - \cot^{-1} x = \tan^{-1} \left( \frac{1}{\sqrt{3}} \right)$
	(a) $\frac{\pi}{3}$	(b) $\frac{\pi}{2}$		has (a) no solution	
- 	(c) $\frac{2\pi}{3}$	(d) $\frac{-2\pi}{3}$		(c) infinite number	r of solutions
12.	The domain of the fun (a) [0, 1]	ction $y = \sin^{-1} (-x^2)$ is (b) (0, 1)	20.	(d) two solutions If $\alpha \leq 2 \sin^{-1} x +$	$\cos^{-1} x \leq \beta$ , then
13. <sup>.</sup>	(c) $[-1, 1]$ The domain of $y = co$	(d)		(a) $\alpha = \frac{-\pi}{2}, \beta = \frac{\pi}{2}$	(b) $\alpha = 0, \beta = \pi$
	(a) [3, 5] (b) [0, π]			(c) $\alpha = \frac{-\pi}{2}, \beta = \frac{3\pi}{2}$	(d) $\alpha = 0, \beta = 2\pi$
	(c) [-√5,-√3]∩[-√	5,√3]	21.	The value of $\tan^2(\sec^{-1} 2) + \cos^{-1} 2$	ot <sup>2</sup> (cosec <sup>-1</sup> 3) is
14	(d) $\left[-\sqrt{5}, -\sqrt{3}\right] \cap \left[-\sqrt{3}\right]$	$\overline{3}, \sqrt{5}$		(a) 5 (c) 13	(b) 11 (d) 15
14.	$f(x) = \sin^{-1} x + \cos x$	is		FILL IN TH	HE BLANKS
15.	(a) $[-1, 1]$ (c) $(-\infty, \infty)$ The value of sin (2 sin	(b) $[-1, \pi + 1]$ (\$) $\phi$ $\pi^{-1}$ (.6)) is		Fill in the blanks	in each of the follow-
	(a) .48 (c) 1.2	(b) .96 (d) sin 1.2	1.	The principal value	e of $\cos^{-1}\left(-\frac{1}{2}\right)$ is
16.	If $\sin^{-1} x + \sin^{-1} y$	$=\frac{\pi}{2}$ , then value of	2	•	
	$\cos^{-1} x + \cos^{-1} y$ is	۲	2.	The value of sin <sup>-1</sup>	$\left(\sin\frac{3\pi}{5}\right)$ is
	(a) $\frac{\pi}{2}$	(b) π	3.	If $\cos(\tan^{-1} x + c)$ of x is	ot <sup>1</sup> $\sqrt{3}$ ) = 0, then value
	(c) 0	(d) $\frac{2\pi}{3}$	4.	The set of value o	of $\sec^{-1}\left(\frac{1}{2}\right)$ is

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Class	s : XII	Inverse Trigono	metric	Functions	larget: JEE (Main/Adv.), CA-CPT
9.	The principal value of	$\sin^{-1}\left(\frac{-\sqrt{3}}{2}\right)$ is	17.	The value of tan	$\left(\cos^{-1}\frac{3}{5} + \tan^{-1}\frac{1}{4}\right)$ is
	(a) $-\frac{2\pi}{3}$	(b) $-\frac{\pi}{3}$		(a) $\frac{19}{8}$	(b) $\frac{8}{19}$
	(c) $\frac{4\pi}{3}$	(d) $\frac{5\pi}{3}$		(c) $\frac{19}{12}$	(d) $\frac{3}{4}$
10.	The greatest and leas $(\cos^{-1} x)^2$ are respecti	t value of (sin <sup>-1</sup> x) <sup>2</sup> + vely	18.	The value of the (tan <sup>-1</sup> 1))] is	e expression sin [cot <sup>_1</sup> (cos
	(a) $\frac{5\pi^2}{4}$ and $\frac{\pi^2}{8}$	(b) $\frac{\pi}{2}$ and $\frac{-\pi}{2}$		(a) 0	(b) 1
	(c) $\frac{\pi^2}{4}$ and $\frac{-\pi^2}{4}$	(d) $\frac{\pi^2}{4}$ and 0		(c) $\sqrt{3}$	(d) $\sqrt{3}$
11.	Let $\theta = \sin^{-1} (\sin (-60))$	0°), then value of $\theta$ is	19.	The equation tan	$x^{-1}x - \cot^{-1}x = \tan^{-1}\left(\frac{1}{\sqrt{3}}\right)$
	(a) $\frac{\pi}{3}$	(b) $\frac{\pi}{2}$		has (a) no solution	
- 24	(c) $\frac{2\pi}{3}$	(d) $\frac{-2\pi}{3}$		(c) infinite numb	er of solutions
12.	The domain of the fun (a) [0, 1]	ction $y = \sin^{-1} (-x^2)$ is (b) (0, 1)	20.	(d) two solutions If $\alpha \leq 2 \sin^{-1} x +$	$-\cos^{-1}x \leq \beta$ , then
13.	(c) $[-1, 1]$ The domain of $y = co$	(d)		(a) $\alpha = \frac{-\pi}{2}, \beta = \frac{\pi}{2}$	(b) $\alpha = 0, \beta = \pi$
	(a) [3, 5] (b) [0, π]			(c) $\alpha = \frac{-\pi}{2}, \beta = \frac{3}{2}$	$\frac{3\pi}{2}$ (d) $\alpha = 0, \ \beta = 2\pi$
	(c) $[-\sqrt{5}, -\sqrt{3}] \cap [-\sqrt{3}]$	5,√3]	21.	The value of $\tan^2(\sec^{-1} 2) + c$	cot <sup>2</sup> (cosec <sup>-1</sup> 3) is
14	(d) $\lfloor -\sqrt{5}, -\sqrt{3} \rfloor \cap \lfloor -\sqrt{3} \rfloor$	$3,\sqrt{5}$		(a) 5 (c) 13	(b) 11 (d) 15
	$f(x) = \sin^{-1} x + \cos x$	is		FILL IN T	HE BLANKS
15.	(a) $[-1, 1]$ (c) $(-\infty, \infty)$ The value of sin (2 sin	(b) $[-1, \pi + 1]$ (\$) $\phi$ $^{-1}$ (.6)) is		Fill in the blank ing questions:	s in each of the follow-
	(a) .48 (c) 1.2	(b) .96 (d) sin 1.2	1.	The principal valu	ue of $\cos^{-1}\left(-\frac{1}{2}\right)$ is
16.	If $\sin^{-1} x + \sin^{-1} y =$	$=\frac{\pi}{2}$ , then value of	2	The value of sin <sup>-</sup>	$\frac{1}{\sin(3\pi)}$ is
	$\cos^{-1} x + \cos^{-1} y$ is		2.		( <sup>3</sup> 11 <u>5</u> ) <sup>15</sup> <u></u> ·
	(a) $\frac{\pi}{2}$	(b) π	3.	If $\cos(\tan^{-1} x + of x \text{ is } \_$ .	$\cot^{-1}\sqrt{3}$ ) = 0, then value
	(c) 0	(d) $\frac{2\pi}{3}$	4.	The set of value	of $\sec^{-1}\left(\frac{1}{2}\right)$ is

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target:

**Inverse Trigonometric Functions** 

Class : XII

**3.** π/6 **6.** – π/3

**15.** tan  $1 > 1 > \tan^{-1}(1)$ 

**3.** (d) **4.** (d) **5.** (a)

**18.** (d) **19.** (b) **20.** (b)

 $\sqrt{3}$ 

**9.** -2π, 2π

3.

3.

6.

**6.**  $\frac{2\pi}{3}$ 

True

False

 $\frac{2\pi}{5}$ 

 $\frac{\pi}{3}$ 

1

True

.

- π/4

- 4

**11.**  $\frac{-120}{169}$ 

**17.**  $1/\sqrt{3}$ 

1/2 **19.**  $x = \pm 1/12$ 

# Math Lab activity to be completed

- To draw the graph of sin<sup>-1</sup> x , using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x).
- 2. To verify that for a function f to be continuous at given point  $x_0$ ,

## SUMMER ASSIGNMENTS SESSION 2024 -25 CLASS XII SUBJECT: PHYSICS

# A) Write the following Experiments and Activities in your Practical File:

# **SECTION (A)**

- 1. To determine resistivity of two/three wires by plotting a graph for potential difference versus current.
- 2. To find resistance of a given wire/standard resistor using meter bridge.
- 3. To verify the laws of combination (series) of resistance using a meter bridge.
- 4. To verify the laws of combination (parallel) of resistance using a meter bridge.
- 5. To determine resistance of a galvanometer by half-deflection method and to find its Figure of merit.

# Activity–(A)

(i) To assemble the component of a given electrical circuit.

(ii) To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a Power source.

(iii) To draw the diagram of given open circuit comprising of at least a battery, resistor / rheostat, ammeter and voltmeter. Mark the components that are not connected in the proper order and correct the circuit and also circuit diagram.

# **SECTION (B)**

- 1. To find the focal length of convex lens by plotting graph between u and or between 1/u and 1/v.
- 2. To draw I –V characteristic curve for p-n junction diode in forward and reverse bias.
- 3. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
- 4. To find the value of length of a convex mirror, using convex lens.

# Activity–(B)

(i) To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.

(ii) To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

(iii)To study the nature and size of the image formed by a convex lens and concave mirror on a screen by using a candle and a screen. (For different distances of the candle from the lens / mirror)

# **B)** ASSIGNMENT

Prepare a WORKING MODEL on static charges or moving charges /based on electric current.

### Sanmati Higher secondary school, Indore

Session : 2025-26, Class-XII

Summer Assignment : Chemistry

Dear Students,

During the summer vacation, You are required to complete following 2 objectives :

- 1.) Complete the 4 practicals in your practical diary we are done so far.
  - a) Prepare M/20 FAS(Ferrous Ammonium Sulphate ) Solution.
  - b) Prepare M/40 Oxalic Acid solution.
  - c) Prepare M/20 FAS(Ferrous Ammonium Sulphate ) Solution and using it find out the Molarity and Strength of unknown KMnO₄ Solution.
  - d) Prepare M/40 Oxalic Acid solution and using it find out the Molarity and Strength of unknown KMnO<sub>4</sub> Solution.

Note : Kindly take care , Start new experiment from a new page after completing every experiment. Diagrams, Observation Table and Calculations should be on the unruled page rest on the ruled side. File should be neatly complete and clean with covered and labelled. Date of experiment and date of submission, will be written during regular classes.

- 2.) Prepare an investigatory project on any one topic of the following :
  - S.No. Chemistry Investigatory Project Class 12 Topics
  - 1 Study of diffusion of solids in liquids
  - 2 Analysis of fertilizer
  - 3 Sterilization of water using bleaching powder
  - 4 To Prepare a Smoke Bomb
  - 5 Aldol Condensation
  - 6 Study of Constituents of an Alloy
  - 7 Preparation of Toilet Soaps
  - 8 Water concentration and texture
  - 9 Measure the amount of acetic acid in vinegar
  - 10 Removal of alcohol from the body through Esterification
  - 11 Determination of contents in cold drinks
  - 12 Measuring the solubility of a saturated solution
  - 13 Compare the rate of evaporation of water
  - 14 Black and white photography
  - 15 Effects of voltage and concentration
  - 16 Preparation of Potash Alum
  - 17 Uses of exothermic reactions
  - 18 Biodiesel formation
  - 19 Electrochemical Cell
  - 20 Neutralizing Ability of Antacid Tablets
  - 21 Paper Chromatography
  - 22 Presence of Oxalate Ions in Guava Fruit and Different Stages of Ripening
  - 23 Determining the amount of phosphate in detergents
  - 24 Sterilization of Water Using Bleaching Powder
  - 25 Presence of Casein in Different Samples of Milk

कक्षा 12वी विषय-हिंदी कोड ३०२ सन्मति उच्चतर माध्यमिक विद्यालय इंदौर ग्रीष्मकालीन अवकाश गृहकार्य 1.आरोह भाग 2 लेखक हरिवंश राय बच्चन "आत्मपरिचय" पाठ का पठन करे व कठिन शब्दो की एक सूची बनाए।

2. "मेरे सपनो का भारत" एक लेख लिखे।

3. वाचन,लेखन कौशल पर ध्यान देवे।

 भक्तिन के जीवन से आपको क्या सीख मिली, आपके जीवन की आदर्श महिला कोन है, चित्र सहित अपने विचार लिखें।

 महादेवी वर्मा जी द्वारा रचित किन्ही दो पुस्तकों को पढ़कर अपनी समीक्षा लिखें।

1रश्मि

2नीरजा

# 3निहार

4यामा

 वर्तमान में प्रचलित इन दो पत्रिकाओं की समीक्षा लिखिए।

- 1. गृहशोभा
- 2. सरिता

7. आपके जीवन की प्रेरणा किसी व्यक्ति विशेष के जीवन पर प्रकाश डालते हुए चित्र सहित लेख लिखे।

#### Physical Education Class 11th & 12th

#### Summer Assignment

### **Progression of SAI Khelo India Fitness Test**

Dear Athletes/Players,

Summer is the best time to storm your brain as there is no pressure on you and this is the best leisure time for you.

So keeping this in mind, I am sharing with you an assignment on SAI Khelo India Fitness Test.

#### "SAI Khelo India Fitness Test Summer Assignment"

Aim:

To understand and promote a healthy and fit lifestyle through the practice of SAI Khelo India Fitness Tests during the summer break.

#### **Objectives:**

- 1. Build cardiovascular endurance
- 2. Improve muscular endurance
- 3. Develop strength
- 4. Improve flexibility
- 5. Increase neuromuscular coordination
- 6. Maintain a healthy body weight
- Instructions:
- **1**. Read the SAI Khelo India Fitness Test PDF carefully to understand the tests and procedures.
- 2. Create a scorecard to track your performance.
- 3. Perform all tests on Day 1 and record your scores.
- 4. Practice the tests regularly and update your scorecard every week for 4 weeks.
- 5. Compare your progress and write a short note on your assignment journey.
- 6. Submit your final scorecard and reflection in June.

**Precautionary Measures:** 

- 1. Avoid running in danger areas (e.g., roofs, traffic roads).
- 2. Avoid exercising if unwell or injured.
- 3. Avoid exercising after meals; maintain a 2.5-3 hour gap after heavy meals.
- 4. Practice with proper techniques as suggested in the PDF.
- 5. Gradually progress your exercises.
- 6. Avoid overexertion.
- 7. Maintain a healthy diet.

### **Benefits:**

This assignment will help you develop a consistent fitness routine, track your progress, and understand the importance of physical fitness in maintaining a healthy lifestyle. It will also improve your sports performance.

# Holiday Assignments English

# My Mother at Sixty Six

1. Describe the theme and Poetic devices used in the poem.

2. I looked again at her wan, pale as a late winter's moon and felt that old familiar ache, my childhood's fear but all I said was, see you soon, Amma, all I did was smile, smile...

**i.** The parting words of the poet, "see you soon, Amma" suggest (a) Passion (b) Ache (c) Happiness (d) Jealous ii. "...all that the poet did was smile and smile and smile..." Her smile is: (a) sudden, in responses to her mother's (b) meaningful and loaded with love (c) accompanied with tears of farewell (d) put on to cheer her mother iii. Why has the mother been compared to the late winter's moon? (a) To refer to her pale and wan appearance (b) To emphasize that the mother is inching close to death (c) To emphasize the mother is old at the age of 66 (d) None of these iv. What is the poetic device used in the line – "all I did was smile, smile, smile..."? (a) Simile (b) Metaphor (c) Repetition (d) Personification 3. Read the extract given below and answer the questions that follow. Driving from my parent's home to Cochin last Friday morning. I saw my mother, beside me. Doze, open mouthed, her face ashen like that of a corpse... a. The poem "My Mother at Sixty-six" is written in a lyrical idiom. It means i. It captures complex subtleties of human relationships. ii. It highlights the universal bond between mother and daughter. iii. It expresses emotions in an imaginative and artistic style. It captures the fear of losing someone near and dear. iv. b. Explain "her face ashen like that of a corpse..." i. The ash colour of the face (b) The pale face of the mother (c) The lost beauty of the mother (d) None of these c. The literary device used in the line 'her face ashen like that of a corpse' is: i. Personification (b) Simile (c) Imagery (d) Metaphor d. The mother beside the poet was: i. Eating food (b) Looking outside the young trees and merry children (c) Sleeping (d) Enjoying ride

4. Read the extract given below and answer the questions that follow.

...and realised with pain put that thought away, and looked out at Young Trees sprinting, the merry children spilling out of their homes, but after the airport's security check, standing a few yards away,

a. Why does the poet use the image of 'merry children spilling out of their homes'?

i. Because she likes to see kids play outdoors (b) To put away the thought of losing her mother

(c) Because she remembers her own carefree childhood (d) Because her mother liked when she used to play in the courtyard

- b. What is the kind of pain and ache that the poet feels?
  - i. Growing old age of her mother (b) Corpse-like ashen face of her mother
    - (c) Realisation that the mother may not live long (d) None of these
- c. Why are the young trees described as 'sprinting'?
  - i. On looking out from a moving vehicle, stationary objects seeing to be moving in the opposite direction
  - ii. The poet compared the trees to young children, with boundless energy running past her window

iii. The trees outside the car window rushed past her as the poet drove ahead, signifying distraction of her mind from the painful sight of her mother's ashen like face.

iv. None of these

d. Identify the figure of speech used in the phrase 'young trees sprinting'.

i. Repetition (b) Metaphor (c) Personification (d) Simile

# The Last Lesson

1. Read the extract given below and answer the questions that follow.

When I passed the town hall there was a crowd in front of the bulletin-board. For the last two years all our bad news had come from there — the lost battles, the draft, the orders of the commanding officer — and I thought to myself, without stopping, "What can be the matter now?" Then, as I hurried by as fast as I could go, the blacksmith, Wachter, who was there, with his apprentice, reading the bulletin, called after me, "Don't go so fast, bub; you'll get to your school in plenty of time!"

- a. Who was called 'bub'?
  - i. M. Hamel (b) Wachter (c) Franz (d) Old Hauser
- b. What did the narrator think when the blacksmith called after him and said, "Don't go so fast, bub; you'll get to your school in plenty of time!"
  - i. The school was closed today. (b) It was the last lesson today.
- (c) He was making fun of him.
- (d) None of these
- c. Identify the tone in which the speaker said the words , "Don't go so fast, bub; you'll get to your school in plenty of time!"?
  - i. Sarcastic (b) Humorous (c) Depressive (d) Cheerful
- i. What had been put up on the bulletin-board?
  - (a) The news of the lost battles
  - (b) The draft of the commanding officer
  - (c) The order from Berlin to teach only German in the schools of Alsace and Lorraine.

#### (d) All of these

2. Read the extract given below and answer the questions that follow.

Poor man! It was in honour of this last lesson that he had put on his fine Sunday clothes, and now I understood why the old men of the village were sitting there in the back of the room. It was because they were sorry, too, that they had not gone to school more.

- i. Who was called 'Poor man'?
  - (a) Old Hauser (b) Franz (c) M. Hamel (d) Wachter

### ii. What feelings were expressed by the villagers when they came to attend the last lesson?

- (a) regret for not learning French
- (b) thanking their master for his forty years of faithful service
- (c) showing their respect for the country that was theirs no more.
- (d) All of the above

#### iii. Why did the country belong to them no more?

- (a) Because they were leaving the country. (b) Because Germans had taken over their country. (c) Because it was destroyed in the war. (d) Because their country was
- merging with Prussia.

iv M. Hamel says, "...that's the great trouble with

Alsace; she puts off \_\_\_\_\_

(a	) time	(b)	monev	(c) language	(d)	learning
(**	) •	(~)	1110110		()	1000000

**3.** Read the extract given below and answer the questions that follow.

All at once the church-clock struck twelve. Then the Angelus. At the same moment the trumpets of the Prussians, returning from drill, sounded under our windows. M. Hamel stood up, very pale, in his chair. I never saw him look so tall. "My friends," said he, "I–I–" But something choked him. He could not go on. Then he turned to the blackboard, took a piece of chalk, and, bearing on with all his might, he wrote as large as he could – "Vive La France!" Then he stopped and leaned his head against the wall, and, without a word, he made a gesture to us with his hand – "School is dismissed – you may go."

- i. What does 'Angelus' refer to?
  - (a) Sound of church bell ringing.
  - (c) Sound of thanks giving.
- ii. What does the trumpets of the Prussians imply?
  - (a) Igniting patriotic fervour
  - (c) People of Alsace are now enslaved
- iii. Why is M. Hamel pale?
  - (a) He feels emotional and heart-broken.
  - (c) He is annoved.

- (b) Roman catholic prayer.
- (d) A prayer sung in a group.
- (b) Playing the band to reduce war stress
- (d) Prussians cheering up the victory over France

- iv. "I never saw him look so tall." Why did Franz think that M. Hamel looked so tall?
  - (a) M. Hamel had grown physically taller. confident.
  - (c) M. Hamel was wearing his fine Sunday clothes. (d) He stood on the chair.

**4.** Read the extract given below and answer the questions that follow.

till tomorrow.

- (b) He is unwell.
- (d) He doesn't like the sound of the trumpets.

- (b) M. Hamel seemed very

While I was wondering about it all, M. Hamel mounted his chair, and, in the same grave and gentle tone which he had used to me, said, "My children, this is the last lesson I shall give you. The order has come from Berlin to teach only German in the schools of Alsace and Lorraine. The new master comes tomorrow. This is your last French lesson..."

- i. What was the tone of M. Hamel when he was addressing his students?
  - (a) cheerful (b) excited (c) heart-broken (d) angry
- **ii.** The grave and gentle tone in which M. Hamel spoke after getting the order from Berlin was due to:
  - (a) his patriotic feeling for his country(b) his love for his mother tongue
  - (c) the grief of not being able to teach French in future (d) All of these
- iii. When would M. Hamel leave?
  - (a) the same day (b) the next day (c) after one week (d) after two weeks
- iv. What did M. Hamel want from the students on the last day of French lesson?
  - (a) To give him a farewell.(b) To oppose the order from Berlin.
  - (c) To be very attentive. (d) To guard their language.
- **5.** Read the extract given below and answer the questions that follow.

What a thunderclap these words were to me! Oh, the wretches; that was what they had put up at the town-hall! My last French lesson! Why, I hardly knew how to write! I should never learn any more! I must stop there, then! Oh, how sorry I was for not learning my lessons, for seeking birds' eggs, or going sliding on the Saar! My books, that had seemed such a nuisance a while ago, so heavy to carry, my grammar, and my history of the saints, were old friends now that I couldn't give up. And M. Hamel, too; the idea that he was going away, that I should never see him again, made me forget all about his ruler and how cranky he was.

- i. "What a thunderclap these words were to me!". The words were:
  - (a) loud and clear. (b) startling and unexpected.
  - (c) pleasant and welcome. (d) None of these
- **ii.** Who are called as 'Wretches'?
  - (a) People of France (b) Germans (c) Prussians (d) None of these
- iii. What regret did Franz have?
  - (a) that he could never play in the school. (b) that he did not learn French.
  - (c) that he would miss his old friends and M. Hamel. (d) None of these
- **iv.** What had been put up on the bulletin-board at the town-hall?
  - (a) The news of the lost battles
  - (b) The draft of the commanding officer
  - (c) The order from Berlin to teach only German in the schools of Alsace and Lorraine.
  - (d) All of these

# **Notice Writing**

- You are Secretary of Gymkhana Club, Madurai. Write a notice informing the members to attend an extraordinary meeting of the governing body. Include details like date, time, venue etc. Sign as Prabhu/Pratibha.
- Due to a sudden landslide and inclement weather, St. Francis School, Vasco has to be closed for a week. As Principal of that school, draft a notice to be displayed at the school main gate notice board.
- As Sports Secretary of G.D.G. Public School, Pune, draft a notice for your school notice board informing the students about the sale of old sports goods of your school. You are Rohini/Rohit.
- You are the Secretary of your school Literary Association. Write a notice for your school notice board, giving details of the proposed inauguration of the Literary Association of your school. You are 'XYZ' of Jain Vidyashram, Cuddalore.
- As Librarian of Crescent International School, Gwalior, draft a notice asking all students and teachers to return the library books they have borrowed, two days before the commencement of the examination.
- While walking in a park in your neighbourhood you found a small plastic bag containing some documents and some cash. Write a notice to be put on the park notice board asking the owner to identify and collect it from you. You are Amar/Amrita.

### Python Revision Tour -1

- 1. Tokens/Lexical Unit: An individual unit of the program.
- Types of Tokens: (i) Identifier (ii) Keywords (iii) Literals (iv) Operators (v)Punctuators.
- **3.** Identifiers: It is a name given to variable, functions and class etc...
- 4. Keywords: Keywords are reserved words, which serves for special purpose in python.
- 5. Literals: Literals are data items whose value cannot be changed.
- 6. Types of Literals:

### (i) Numeric Literals:

Intege	ers	Float	5	Complex		
valid	invalid	valid	invalid	valid	invalid	
a=10	s= <u>0</u> 3458	a=3.25		k=3+2j	j=3+2 <u>i</u>	

(ii)

String Literal:(i) Single string (ii) Multi string

### (iii)Boolean Literal:

valid	invalid
k=True	J=true
S=False	F=false

(iv)Special Literal:None is called

special literal in python.

It indicates absence of value.

(v)Literal Collections: String, List, Tuple and Dictionary.

**7. Operators:** Operators are symbols which perform various mathematical or logical operations on operands.

8. Categories of Operators:(i) Unaryoperator-> Ex: S=not 54
 (ii) Binary operator -> Ex: E=2+3



9. Types of operators: Seven types of operators are

### 10. Variable and Assignments:

Ex 1	Ex 2	Ex 3	Ex 4
A=10	A=10,56,73	a=b=c=10	G,J,L=True,56,87
	(tuple)	(Assigning same value to multiple variables)	(Assigning multiple values to multiple variables)

**11.Expressions**: An expression is a combination of operators, literals and variables.

### **12.Types of Expressions**:



# **12. Operator Precedence:**

Operators	Associativity		
() Highest precedence	Left - Right		
**	Right - Left		
+x , -x, ~x	Left - Right		
*,1,11,%	Left - Right		
+, -	Left - Right		
<<, >>	Left - Right		
&	Left - Right		
^	Left - Right		
1	Left - Right		
Is, is not, in, not in,	Left - Right		
<, <=, >, >=, ==, ]=			
Not x	Left - Right		
And	Left - Right		
Or	Left - Right		
If else	Left - Right		
Lambda	Left - Right		
=, +=, -=, *=, /= Lowest Precedence	Right - Left		

## 13. Comment Lines:

- (i) Single line comment Line Starts with #
- (ii) Multi line comment Line Starts with'''(Triple-Quotes)

# 14. Escape Sequence:

Code	Result/Output	Description	
1.	Single Quote	Add single quote with in a String	
11	Backslash	Insert single Back Slash	
\n	New Line	\n takes the cursor to first position of a new line	
()r	Carriage Return	\r takes the cursor to the first position of the same line	
11	Tab	\t add spaces of 8 characters	
\b	Backspace	\b takes the cursor one position backward	
\f	Form Feed	Form feed is page breaking ASCII control character	
\ooo Octal value Oct		Octal value	
\xhh Hex value Hex value		Hex value	

**15. Data Type:** It specifies what type of data a variable going to hold in its memory.

## 16. Types of Datatype:



### 17. Mutable and Immutable Types:

(i) Mutable: Objects whose value can change are said to be mutable.

(ii) **Immutable:** Objects whose value is unchangeable once they are created are called immutable.



18. id() - Used to get address of the variable.

type() - Used to say the type of the variable/object

19. Туре (( Туре	<b>19. Type Conversion:</b> (OR) <b>Type Casting:</b> Type conversion is the process of converting a data type into another data type.							
			Type Cor	nversion in	Python			
				1				
		t			1	A		
	Ir	nplicit C	onversion	] [	Explicit Co	nversion		-
Impl	icit C	onvei	sion	Ex	plicit Co	nversion		
(i) It	is per	forme	d by	(i) It	is perfor	rmed by	the	
the	inter	preter		user by	v explicit	v using		
tik	, miter	preter	•	type conversion functions.				
(ii) It	is also	o knov	wn as	(ii) It is also known as				
"Coe	cion"			"Type casting"				
(iii) <u>E</u>	xampl	le:		(iii) <b>Example:</b>				
A=10				A=10				
B=10	.5			B=10.5				
C=A+	B #In	nplici	t	C=int(A+B) <b># Explicit</b>				
print	C)			print(C)				
				Ca				
O/P:				O/P:				
20.5				20				
20. Type conversion functions:								
From/To	int	Flo	Comp	Bool	String	List	Tup	Dic
int()	-	Y	N	Y	Y (int)	N	N	N
float()	Y	-	N	Y	Y(num)	N	N	N

	Y	-	IN	Y	Y (num)	IN	IN	IN
complex()	Y	Y	-	Y	Y	Ν	Ν	Ν
bool()	Y	Y	Y	-	Y(A11)	Y	Y	Y
str()	Y	Y	Y	Y	-	Y	Y	Y
list()	Ν	Ν	Ν	Ν	Y	-	Y	Y
tuple()	N	Ν	Ν	Ν	Y	Y	-	Y
dict()						Y	Y	
	Ν	Ν	Ν	Ν	Ν	(Nested)	(Nested)	-

# 21 .<u>Control Statements:</u>

Statements		Example
		if 5>6:
	if	print("Hi")
		if 5>6:
		nrint("Hi")
	if – else	else.
		print("Hello")
		if 4>6:
		print(".Ii")
		elif 10>5:
		print("Hello")
	if-elif-else	elif 7:
Selection		print("Bye")
		else.
		print("Finished")
		a=10
		if a > 1
		$\frac{11}{10} \frac{1}{10}$
		nrint("Hi")
	Nested if elif else	elifa%2==0
		print("hello")
		elifa%3==0
		print("K")
		a=1
	while	while a<=10:
	(Condition Loop)	print(a)
	1/	a=a+2
Looping		for i in range(5):
	c	print(i)
	IOr (Occurting Lean)	
	(Counting Loop)	for j in [1,54,42,53]:
		print(j)
5		for I in range $(1,10,2)$ :
	brook	if I==6:
	DIEak	break
		print(I)
Termo		for I in range(1,10,2):
Jump	continuo	if I==6:
	commue	continue
		print(I)
	2000	for I in range $(1,10,2)$ :
	pass	pass

			1=0
			while i<=10:
			j=0
			while i<=3:
			if i==2
			hreak
NT / 1 T			DIEak
Nested Loop			print(i,j)
			for i in ranage(10):
			for j in range(5):
			if j==2:
			break
			print(i i)
Loon with else	Working		i=10
Loop with else	working.	<b>TT</b> 71	
	1.	whenever	wille 1>1:
		the condition	print(i)
		becomes	else:
		false in the	print("Hi")
		beginning	
		itself.	O/P: Hi
		C	
	ii.	Whenever	for I in range(2):
		the loop	print(I end=' ')
		finished its	else:
		iteration	cisc.
		iteration.	
	Not Work	in at	O / P:
	INOL WORK	<u>ng:</u>	0/F:
	If we use t	preak in loop,	0 1 2
	then that	time else will	Hello
	not work		
			for I in range(4):
			if I==3:
			break
$\sim$			print(i)
			princ(i)
			01001
			print("Hello")
			0/B
			0/F:
			U
			1
			2

## 22. Mathematical Functions (import math)

DESCRIPTION	EAAMFLE	OUTPUT		
Return the x to the power y value.	>>> math.pow(5, 8)	390625.0		
	>>> pow(5,-2)	0.04		
Finds the square root	math.sqrt(400)	20.0		
of x				
Returns the smallest	>>> math.ceil(23.56)	24		
integer, greater or	· · · · · · · · · · · · · · · · · · ·			
x.	>>> math.cell(-1.5)			
Returns the largest	>>> math.floor(23.56)	23		
integer, less or equal				
to the number x.	>> math.floor(-1.5)	2		
It returns the	>>> abs(-4)	4		
remove the negative				
sign of a number.				
Returns the absolute	math.fabs(-96)	96.0		
value of x.				
Returns factorial of x.	math.factorial(5)	120		
where $x \ge 0$	· S			
Finds xe, where $e = 2.718281$	math.exp(5)	148.4110		
Returns the Log of x.	math.log(625, 5)	4.0		
where base is given.				
The default base is e				
Returns the Log of x,	math.log2(1024)	10.0		
where base is 2				
Returns the Log of x, where base is 10	math.log10(1024)	3.0102		
Return the sine of x	math.sin(math.radians	0.8660		
in radians	(60))			
Return the cosine of	math.cos(math.pi))	-1.0		
Return the tangent of	math.tan(math.pi/2))	1.63e+16		
x in radians	······································			
Convert angle x from	math.degrees(8.90)	509.93		
radian to degrees				
Convert angle x from	math.radians(180)	3.14193		
degrees to radian				
23. random module(import random)				
(1) randrange(start,stop,step)				
$(11)$ randing start, stop $\pi$ start & stop values are included 24. Statistics modulo(import statistics)				
$\frac{2 \tau}{2 \tau} = \frac{1}{2 \tau} = $				
	Return the x to the power y value. Finds the square root of x Returns the smallest integer, greater or equal to the number x. Returns the largest integer, less or equal to the number x. It returns the largest integer, less or equal to the number x. It returns the largest integer, less or equal to the number x. It returns the largest integer, less or equal to the number x. It returns the largest integer, less or equal to the number x. It returns the largest isgn of a number. Returns the absolute value of x. Returns the absolute value of x. Returns factorial of x. where x $\geq 0$ Finds xe, where e = 2.718281 Returns the Log of x, where base is given. The default base is e Returns the Log of x, where base is 2 Returns the Log of x, where base is 10 Return the sine of x in radians Return the tangent of x in radians Convert angle x from radian to degrees Convert angle x from radian to degrees Conv	Return the x to the power y value.>>> math.pow(5, 8)Finds the square root of xmath.sqrt(400)Returns the smallest integer, greater or equal to the number x.>>> math.ceil(23.56)Returns the largest integer, less or equal to the number x.>>> math.floor(23.56)It returns absolute value and remove the negative sign of a number.>>> math.floor(-1.5)Returns the absolute value of x.>>> math.floor(-1.5)Returns factorial of x. where x ≥ 0math.fabs(-96)Finds xe, where e = 2.718281math.factorial(5)Returns the Log of x, where base is given. The default base is emath.log(625, 5)Returns the Log of x, where base is 10math.log10(1024)Return the sine of x in radiansmath.cos(math.pi)Return the cosine of x in radiansmath.cos(math.pi)Convert angle x from radian to degreesmath.catians(180)Convert angle x from radian to degreesmath.radians(180)dom module(import random) dom()(ii) madian() (iii) mode		

### PRACTICE QUESTIONS STATE TRUE OR FALSE

-			
1.	Python is a low level language.		
2.	Python is a free source language.		
3.	Python converts low level language to high level language.		
4.	Python is a compiler.		
5.	Python is case sensitive language.		
6.	Python was named after famous BBC comedy show		
	namely Monty Python's Flying Circus.		
7.	Python is not a Cross-platform Language. 🦯 🦳		
8.	All identifiers in Python are in lower case.		
9.(i)	An identifier is a user defined name given to a variable or		
	a constant in a program.		
9.(ii)	Python does not allows same variable to hold different		
	data literals / data types.		
10.	Operators with the same precedence are evaluated in		
	right to left manner.		
11.	Interactive mode is used when a user wants to run a		
	single line or one block of code.		
12.	Script mode is used when the user is working with more		
	than one single code or a block of code.		
13.	In Python, a variable may be assigned a value of one type,		
	and then later assigned a value of a different type.		
14.	In Python, a variable must be declared before it is		
	assigned a value.		
15.	Variable names can be of any length.		
16.	the complement operator inverts the value of each bit of		
	the operand O		
17.	print(int(6>7-6-7*4)) will print boolean value.		
18.	Logical operator not has highest precedence among all		
	the logical operators.		
19.	"is" is a membership operator in python.		
20.	Following code will produce True as output:		
C	x=10>5>1 and -3<-2<-1		
	print(x)		
21.	The value of expression $3/5^{(7-2)}$ and $3/(5^{(7-2)})$ issame.		
22.	The expression $4^{**}3^{**}2$ is evaluated as $(4^{**}3)^{**}2$		
23.	() have higher precedence that any other operator.		
24.	print() always inserts a newline after each output.		
25.	>>> 2*4+36/2-9		
	In the above expression $36/2$ will be evaluated first by		
	python.		
26.	When syntax error is encountered, Python displays the		
	name of the error and a small description about the error.		
	•		

27	"In Python, data type of a variable depends on its value"	
28	"Python identifiers are dynamically typed."	
29	(i) -88.0 is the output of the print(3-10**2+00/11)	
	(ii) range() is also a module function	
30.	"Comments in Python begin with a "\$" symbol "	
	ASSERTION & REASON	
1	A.It is interpreted language	
	<b>R</b> : Python programs are executed by an interpreter	
2	A: Python is portable and platform independent	
	<b>R</b> :Python program can run on various operating systems	
	and hardware platforms.	
3.	A: Python is case-sensitive	
•••	<b>R</b> :Python does not use indentation for blocks and	
	nested blocks.	
4.	<b>A:</b> Python program is executed line by line.	
	<b>R:</b> Python is compiled language.	
5.	<b>A:</b> Python is an object oriented language	
	<b>R:</b> Python is a cross platform language	
6.	A: Python is case-sensitive.	
	<b>R:</b> NUMBER and number are not same in Python	
7.	A: Python is a high-level object-orientedprogramming	
	language.	
	R: It can run on different platforms like Windows,Linux,	
	Unix, and Macintosh.	
8.	A: An identifier cannot have the same name as of	
	a keyword.	
	<b>R</b> : Python interpreter will not be able to differentiate	
	Between a keyword and an identifier having the	
	same name as of a keyword.	
9.	>>>print('Good'+' Morning') #Output :Goodmorning	
	A: Incorrect Output	
10	<b>K</b> . There is a symbol entermoted and and	
10.	shown on the output screen	
C	<b>P</b> : Single line comments in python starts with #	
	character	
11	A: Python uses the concept of L-value and R-value	
	that is derived from the typical mode of	
	evaluation on the left and right side of an	
	assignment statement	
	<b>R:</b> name = 'Raj'	
	In the above code the value 'Rai' is fetched (Rvalue)	
	and stored in the variable named – name (L value)	
12.	A: Age=18 print(age)	
	<b>R</b> : Variables are case sensitive	
-		

10	$\mathbf{A}_{12}$ =		
13.	A:>>> print(type((3 + 33) < -(-4 - 44)))		
	<b>R</b> : As output is frue which is a boolean value		
14.	num1=input("enter a number")		
	print(num1+2)		
	<b>A:</b> The above code will give error message when		
	executed.		
	<b>R:</b> input() returns a string datatype. We cannot add		
	stringdatatype with a numeric datatype. So,		
	performingarithmetic operation on it will result in		
	error.		
15.	var1=10		
	var1="hello"		
	A: The above code is invalid. We cannot assign adata of		
	different data type to an existing variable.		
	<b>R</b> : Python supports implicit type casting So it is		
	possible to assign a data of different data type to		
	anexisting variable		
16.	A: You will get an error if you use doublequotes inside a		
10.	string that is surrounded by doublequotes:		
	suring that is surrounded by doublequotes:		
	<b>R</b> . To fix this problem use the escanecharacter \":		
17	A: Variables whose values can be changed after they are		
17.	created and assigned are called immutable		
	<b>R</b> : When an attempt is made to update the value of an		
	immutable variable, the old variable is destroyed and a		
	new variable is created by the same name in memory.		
18	A To do arithmetic python uses arithmetic( $+ * / / ** = /$		
10.	%)		
	<b>R</b> •Fach of these operators is a binary operator		
10	A: The relational operator determine therelation among		
17.	different operand		
	ancient operation <b>P</b> -It returns the boolean value		
20	A:not has a lower priority than non Realeanoperators		
20.	<b>R</b> : So not $a=b$ is interpreted as $pot(a=b)$		
C	<b>X.</b> So not ab is interpreted as not(ab)		
21	The ** operators is evaluated from right to left		
41. (	<b>P</b> . All operators are left associative		
22	A: for the given expression		
44.	$\mathbf{A}$ , for the given expression $\mathbf{A}^{-1}$		
	$V_1 - 1$		
	$v_{2} = 1$		
	$V_0 = V_1 = -V_2$ #value of Vo is raise		
	<b>R</b> : Integer value cannot be compared with string		
I			
00	value.		
23.	value. <b>A:</b> following given expression will result into		

	str1="ABC"		
	v1=[2]		
	str3=str1*v1		
	<b>R:</b> operator "' cannot be applied on string		
24.	<b>A</b> :int('A') The above statement will result into error		
	<b>R:</b> 'A' is not recognised by Python		
25.	A: a=9, b=int(9,2) Both a and b have same value		
	<b>R</b> :b is converted to integer explicitly		
26.	A: In an expression, associativity is the solution to		
	the order of evaluation of those operators which		
	clashes due to same precedence.		
	<b>R</b> : Operators in an expression may have equal		
	precedence due to which the order of evaluation		
	cannot be decided just by precedence. 🗙 🦳		
27.	A:SyntaxError: Missing parentheses in call to 'print'.		
	<b>R:</b> SyntaxError: It is raised when there is an error in the		
	syntax of the Python code.		
28.	A: NameError: name 'X' is not defined		
	<b>R</b> :NameError: It is raised when the requested module		
	definition is not found.		
29.	A:ZeroDivisionError: division by zero		
	<b>R</b> :ZeroDivisionError: It is raised when the denominator		
	in a division operation is zero.		
30.	A: 1ypeError: can only concatenate str (not "int") to str <b>D</b> : TypeError: It is raised when an operator is supplied		
	<b>R</b> : TypeError: It is raised when an operator is supplied		
21	with a value of incorrect data type.		
31.	<b>R</b> : A loop that continues repeating without aterminating		
	<b>K:</b> A loop that continues repeating without aterminating		
30	(change) condition is an infinite loop.		
52.	till the range of values is exhausted		
	<b>R</b> : for loop cannot be nested.		
33.	Analyse the following code:		
	for i in range(1,4):		
C	for j in range (1,i+1):		
	print(j,end='')		
	print()		
	A: output is		
	1		
	12		
	123		
	<b>R:</b> Here, range function will generate value 1,2,3 in		
	the outer loop and the inner loop will run for each value		
	of "i" used in outer loop.		

<ul> <li>The for is a counting loop and while is a condition.</li> <li>R: The while is a conditional loop as we check condition first, if it is satisfied then only we can inside the while. In case of for it depends upor counting statement of index.</li> <li><b>35. A:</b> for loop in Python makes the loop easy to call factorial of a number</li> <li>R: While loop is an indefinite iteration that is used a loop repeats unknown number of times and end some condition is met.</li> <li><b>36. A:</b> range(0,5) will produce list as [0,1,2,3,4]</li> <li><b>R:</b> These are the numbers in arithmeticprogression that begins with lower limit 0 andgoes up till limit -1.</li> <li><b>37. A:</b> To print the sum of following series 1 + 3 + 5n. Ravi used the range function in for asfollows :range(1,n+1,2) # 3 parameters</li> <li><b>R:</b> In range function first parameter is value, second parameter is stop value &amp; the parameter isstep value.</li> <li><b>38.</b> x = 0 for i in range(3,9,3): x = x * 10 + i print(x)</li> <li><b>A:</b> The output of the above code will be 9.</li> <li><b>R:</b> The loop will run for 2 times.</li> <li><b>39.</b> for i in range(1, 6): for j in range(1, 6): for j in range(1, 1): print("*", end=" ") print()</li> <li><b>A:</b> In a nested loop, the inner loop must term before the outer loop.</li> <li><b>R:</b> The above program will throw an error.</li> <li><b>40. A:</b> break statement terminates the loop.</li> </ul>	ional the n get the ulate vhen		
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<b>40.</b> A: break statement terminates the loop.	inate		
	inate		
<b>R</b> : The else clause of a Python loop executeswhe			
	inate		
Continues normality.           41         Athreads attachment appears in a posted loss	the		
<b>1. A:</b> Dreak statement is inside the inner least	the		
will not terminate the inner loop then it willtern	the		
the outer loop only	the en it		
	the en it inate		

42	A: break statement terminates the loop it lieswithin		
τ4.	A: break statement foreas the payt iteration of the loop		
	<b>K</b> : continue statement forces the next iteration of the loop		
12	A: The meth new (0, 4) rives the system 16, 0		
43.	<b>R:</b> The math new(2,4)gives the output, 10.0		
	<b>K.</b> The main.pow() method receives two hoat arguments,		
	raise the first to the second and return the result.		
	OBJECTIVE TYPE QUESTIONS (MCQ)		
1.	Python uses to convert its instructions intomachine		
	language.		
	(a)Interpreter (b)Compiler		
	(c)Both of the above (d)None of the above		
2.	Who developed the Python language?		
	(a) Zim Den (b)Wick van Rossum		
	(c)Guido Van Rossum (d)NieneStom		
3.	IDLE stands for		
	(a) Integrated Development Learning		
	(b) Integrated Development Learning Environment		
	(c) Intelligent Development Learning Environment		
	(d) None of the above		
4.	Python interpreter executesstatement		
	(Command) at a time.		
	(a) Two (b) Three (c) One (d) All command		
5.	Which of the following is not the feature of		
	(a) Python is proprietory software		
	(a) Fython is not case-sensitive		
	(b) JEYLHOIL IS HOL CASE-SELISIUVE.		
	(d) All of the above		
6	By default the Bython scripts are saved with		
0.	extension.		
	(a) number $(b)$ number $(c)$ number $(d)$ None of the above		
7.	What is the maximum possible length of an identifier in		
	nython?		
	(a) 16 (b) 32 (c) 64 (d) None of these		
8.	>>> print("I" + "am" + "in" + "school") display		
-	(a) I am in school(b)I Am In School		
	c)Iaminschool(d)iaminschool		
9.	Which of the following statement is correctsyntactically?		
	(a) print("Hello", sep == '@', end =' ')		
1	(b)print("Hello", sep = '@', end = ' ')		
	(c)Print("Hello", sep = $(\widetilde{\omega})$ , end = ')		
	(d)print("Hello", sep = $(a)$ , end = '		
10.	Which of the following is not a keyword in python?		
	(a) eval (b) assert (c) nonlocal (d) pass		
11.	Which of the following is not a valid declaration?		

	(a) S=12 (b) V="J" (c) F=32.4 (d) H=0254		
12.	Evaluate the following expression:		
	>>> not True or not False and False		
	(a) True (b) False (c) None (d) Will generate an Error		
13.	All keywords in python except TRUE and FALSE are in		
	?		
	(a) Lower case (b) Upper case		
	(c) Capitalized (d) None of the above		
14.	Find the invalid identifier from the following		
	(a) sub%marks (b) age (c) _subname_ (d) subject1		
15.	Which of the following expressions is an example of type		
	casting?		
	(a) 4.0+float(6) (b) 5.3+6.3		
	(c) $5.0+3$ (d) None of these $\times$		
<b>16</b> .	Which of the following is an invalid identifier?		
	(a) CS_class_XII (b) csclass12		
	(c) _csclass12 (d) 12CS		
17.	The input() function always returns a value oftype.		
	a) Integer b) float c) string d) Complex		
18.	To include non-graphic characters in python, which of the		
	following is used?		
	a. Special Literals b. Boolean Literals		
10	c. Escape Character Sequence d. Special Literal – None		
19.	Which of the following cannot be a variable name?		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
20.	(a) Let (b) WILLE (c) While (d) if		
21	(a) III (b) WHILE (c) WHILE (d) II		
41.	(i) $\sum print(10 \text{ or } 40)$ (ii) $\sum print(22.0/(5))$		
22	Which of the following is an invalid operator in Python?		
44.	(a) $-$ (b) $//=$ (c) in (d) =%		
23	Which of the following operators is the correct option for		
20.	power(a,b)?		
	$(a) a^{b}$ (b) a **b (c) a ^ b (d) a ^*b		
24	Which of the characters is used in python to make a		
	single		
	line comment?		
	(a)/(b)//(c) # (d)!		
25.	Which of the following is not a core data type in python?		
	(a)List (b) Dictionary (c) Tuple (d) Class		
26.	Which of the following has the highest precedence in		
	python?		
	(a)Exponential (b) Addition (c) Parenthesis (d) Division		

07	What is moth factorial $(4, 0)$ ?			
21.	what is math. $actomat(4.0)$ ?			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
28.	Identify the invalid variable name from the following.			
	Adhar@Number, none, 700utoiseventy, mutable			
29.	which of the following belongs to complex datatype			
	(a) $-12+2k$ (b) 4.0 (c) $3+4J$ (d) $-2.051$			
30.	None is a special data type with a single value. It is used			
	to			
	signify the absence of value in a situation			
1	(a) IRUE (b) FALSE (c) NONE (d) NULL			
31.	If $x=3.123$ , then int(x) will give ?			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
32.	10 execute the following code in Python, which module			
	need to be imported?			
22	<pre>Print(mean([1,2,3]) </pre>			
33.	Find the invalid identifier from the following			
24	[a] marks(0.12 (0) stilling_12 (C)_DOILUS (0.1711St_Mame			
34.	(a) KS Inn (b) folge (c) 2ndDloge (d) nonly			
25	[a] K5_001 [0] laise (c) Sturface (u) _laik			
35.	(a) Tet <sup>\$</sup> halanaa (b) TDUE (a) (thdata (d) broalt			
26	Which and of the following in Poles regarding data types in			
30.	Bython?			
	(a) In python, explicit data type conversion ispossible			
	(b) Mutable data types are those that can bechanged.			
	(c) Immutable data types are those that cannot			
	bechanged.			
	(d) None of the above			
37.	Which statement will give the output as : True from the			
	following :			
	a) >>> $not -5$ b) >>> $not 5$ c) >>> $not 0$ d) >>> $not(5-1)$			
38.	Evaluate the following expression: 1+(2-3)*4**5//6			
	(a) 171 (b) 172 (c) 170 (d) 170			
39.	The correct output of the given expression is:			
	True and not False or False			
	(a) False (b) True (c) None (d) Null			
40.	What will the following expression be evaluated to in			
	Python?			
	print(6*3 / 4**2//5-8)			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
41.	Evaluate the following expressions:			
	>>>[not True] and False or True			
40	(a) True (b) False (c) None (d) NULL $1 \leq 1 \leq 1 \leq 2 \leq $			
42.	$\begin{array}{c} 10 / / (4 + 2) = 3 + 2 = 3 + 4 \\ (a) 42 \qquad (b) 46 \qquad (a) 18 \qquad (d) 32 \\ \end{array}$			
L	(a) 74 (b) 70 (c) 10 (u) 32			

12	Evaluate the following expression:		
43.	Evaluate the following expression:		
	(a) True (b) False (c) NONE (d) NULL		
44	The below given expression will evaluate to		
	22//5+2**2**3%5		
	(a)5 (b) 10 (c) 15 (d) 20		
45.	Which of the following is not a valid identifier name in		
	Python?		
	a) First Name b) Area c) 2nd num d) While		
46.	Evaluate the following Python expression		
	print(12*(3%4)//2+6)		
	(a) 12 (b) 24 (c) 10 (d) 14 $\bigcirc$		
47.	Give the output of the following code:		
	>>>import math		
	>>>math.ceil(1.03)+math.floor(1.03)		
	a) 3 b) -3.0 c) 3.0 d) None of the above		
48.	>>>5 == True and not 0 or False		
	(a) True (b) False (c) NONE (d) NULL		
49.	Predict the output of the following:		
	from math import*		
	A=5.6		
	print(floor(A),ceil(A))		
	(a) = (b) = (a)		
50	(a) 5 0 (b) 0 5 (c) -5 -0 (a) -0 -5		
00.	import math		
	nrint(math.fabs-10)		
	(a) 1 (b) $-10$ (c) $-10.0$ (d) 10		
51.	Which of the following function is used to know the data		
	type of a variable in Python?		
	(a) datatype() (b) typeof() (c) type() (d) vartype()		
52.	Identify the invalid Python statement from the following.		
	(a) _b=1 (b) b1=1 (c) b_=1 (d) 1 = _b		
53.	A=100		
	B=A		
•	Following the execution of above statements, python has		
	Created how many objects and how many references?		
	(a) One object Two reference (b) One object One		
	(a) Two object Two references (d) Two object Ore		
	reference		
54	What is the output of the following code?		
07.	a.b=8/4/2. 8/(4/2)		
	print(a,b)		
	(a) Syntax error (b) $1.0.4.0$ (c) $4.0.4.0$ (d) $4.4$		

55. Predict output for following code v1= True v2=1 print(v1==v2, v1 is v2) (a) True False (b) False True (c) True True (d) False False 56. Find output for following given program a=10 b=20 c=1 print(a !=b and not c) (a) 10 (b) 20 (c) True (d) False 57. Find output of following given program : str1_ = "Aeiou" str2_ = "Machine learning has no alternative" for i in str1_: if i not in str2_: print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error 58. Find output for following given code a=12 print(a==0 and a<=10)) (a) True (b) False (c) 0 (d)1 59. What will be value of diff? c1=*A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error: unsupported operator '-2' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27 y = 9 while $x < 30$ and $y < 15$ : x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3	r			
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50. Find output for following given program a=10 b=20 c=1 print(a !=b and not c) (a) 10 (b) 20 (c) True (d) False 57. Find output of following given program : str1_ = "Aeiou" str2_ = "Machine learning has no alternative" for i in str1_: if i not in str2_: print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error 58. Find output for following given code a=12 print(not(a>=0 and a<=10)) (a) True (b) False (c) 0 (d)1 59. What will be value of diff ? c1='A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27 y = 9 (a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10 x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2= 1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3	56	Find output for following give	n program	
<b>a</b> -10 <b>b</b> =20 <b>c</b> =1 <b>print(a</b> != <b>b</b> and not c) (a) 10 (b) 20 (c) True (d) False <b>57.</b> Find output of following given program : str1_ = "Aeiou" str2_ = "Machine learning has no alternative" for i in str1_: if i not in str2_: print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error <b>58.</b> Find output for following given code <b>a=12</b> <b>print(not(a&gt;=0 and a&lt;=10))</b> (a) True (b) False (c) 0 (d)1 <b>59.</b> What will be value of diff ? <b>c1='A'</b> <b>c2='a'</b> <b>diff= ord(c1)-ord(c2)</b> <b>print(diff)</b> (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 <b>60.</b> What will be the output after the following statements? x = 27 y = 9 (a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10 x = x + 1 y = y + 1 print(x,y) <b>61.</b> What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3	50.		n program	
<b>b=20</b> <b>c=1</b> <b>print(a !=b and not c)</b> (a) 10 (b) 20 (c) True (d) False <b>57.</b> Find output of following given program : $str1_{-} = "Aeiou"$ $str2_{-} = "Machine learning has no alternative" for i in str1_: if i not in str2_: print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error 58. Find output for following given code a=12 print(not(a>=0 and a<=10)) (a) True (b) False (c) 0 (d)1 59. What will be value of diff? c1='A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27y = 9(a) 26 11 (b) 25 11(c) 30 12 (d) 26 10x = x + 1y = y + 1print(x,y)61. What output following program will producev1='1'v2=1v3=v1==v2(a) Type Error (b) Value Error(c)True will be assigned to v3 (d)False will be assigned to v3$		a-10		
c=1print(a !=b and not c)(a) 10(b) 20(c) True(d) False(a) 10(b) 20(c) True(d) False57.Find output of following given program :str1_= "Aeiou"str2_= "Machine learning has no alternative"for i in str1_:if i not in str2_:print(i,end=")(a) Au(b) ou(c) Syntax Error(d) value Error58.Find output for following given codea=12print(not(a>=0 and a<=10))(a) True(b) False(c) 2(d) 159.What will be value of diff?c1='A'c2='a'diff= ord(c1)-ord(c2)print(diff)(a) Error : unsupported operator '-'(b) 32(c)-32(c)-32(d) 060.What will be the output after the following statements? $x = 27$ $y = 9$ (a) 26 11(b) 25 11(c) 30 12(d) 26 10 $x = x + 1$ $y = y + 1$ print(x,y)61.61.What output following program will produce $v1='1'$ $v2=1$ $v3=v1==v2$ (a) Type Error(b) Value Error(c) True will be assigned to v3(d) False will be assigned to v3		b=20		
print(a !=b and not c)(a) 10(b) 20(c) True(d) False57.Find output of following given program : str1_ = "Aciou" str2_ = "Machine learning has no alternative" for i in str1_: if i not in str2_: print(i,end=")(a) Au(b) ou(c) Syntax Error(d) value Error58.Find output for following given code a=12 print(not(a>=0 and a<=10)) (a) True(b) False (c) 0(d) 159.What will be value of diff? c1='A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32(b) 32 (d)060.What will be the output after the following statements? x = 27 y = 9(a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10 (c) 30 12 (d) 26 1061.What output following program will produce v3v1='1' v2=1 v3=v1==v2 (a) Type Error (c)True will be assigned to v3 (d)False will be assigned to v3		c=1	C	
(a) 10 (b) 20 (c) True (d) False <b>57.</b> Find output of following given program : $str1_ = "Aeiou"$ $str2_ = "Machine learning has no alternative" for i in str1_: if i not in str2_: print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error 58. Find output for following given code a=12 print(not(a>=0 and a<=10)) (a) True (b) False (c) 0 (d)1 59. What will be value of diff? c1='A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27y = 9while x < 30 and y < 15:x = x + 1y = y + 1print(x,y)61. What output following program will producev1='1'v2=1v3=v1==v2(a) Type Error (b) Value Error(c)True will be assigned to v3 (d)False will be assigned to v3$		print(a !=b and not c)		
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for i in str1_: if i not in str2_: print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error <b>58.</b> Find output for following given code <b>a=12</b> <b>print(not(a&gt;=0 and a&lt;=10))</b> (a) True (b) False (c) 0 (d)1 <b>59.</b> What will be value of diff? <b>c1='A'</b> <b>c2='a'</b> <b>diff= ord(c1)-ord(c2)</b> <b>print(diff)</b> (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 <b>60.</b> What will be the output after the following statements? x = 27 y = 9 while $x < 30$ and $y < 15$ : x = x + 1 y = y + 1 print(x,y) <b>61.</b> What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		str2_ = "Machine learning has	s no alternative"	
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print(i,end=") (a) Au (b) ou (c) Syntax Error (d) value Error <b>58.</b> Find output for following given code $a=12$ print(not(a>=0 and a<=10)) (a) True (b) False (c) 0 (d)1 <b>59.</b> What will be value of diff? $c1='A'$ $c2='a'$ diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 <b>60.</b> What will be the output after the following statements? $x = 27$ $y = 9$ while $x < 30$ and $y < 15$ : $x = x + 1$ $y = y + 1$ print(x,y) <b>61.</b> What output following program will produce $v1='1'$ $v2=1$ $v3=v1==v2$ (a) Type Error (b) Value Error (c) True will be assigned to v3 (d)False will be assigned to v3		if i not in str2 :		
(a) Au (b) ou (c) Syntax Error (d) value Error 58. Find output for following given code a=12 print(not(a>=0 and a<=10)) (a) True (b) False (c) 0 (d)1 59. What will be value of diff? c1='A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27 y = 9 (a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10 x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		print(i.end=")		
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(a) True (b) False (c) 0 (d)1 (a) True (b) False (c) 0 (d)1 (b) False (c) 0 (d)1 (c) Tue (c) False (c) 0 (d)1 (c) Tue (c) False (c) 0 (d)1 (c) Tue will be value of diff? (c) Tue will be value of diff? (c) Tue will be value of diff? (c) 0 (d)1 (c) 0 (d)1 (c) 0 (d)1 (c) 0 (d)1 (c) 0 (d)1 (c) 0 (d)1 (c) 0 (d)2 (d)0 (d)0 (d)0 (d)0 (d) 25 11 (c) 30 12 (d) 26 10 (c) 70 (c) 70 (c) 70 (c) (c) 70 (c) 70 (c) 70 (c) 70 (c) (c) 70 (c)		$a^{-12}$		
[a) If the [b) False [c] 0 [d]1 <b>59.</b> What will be value of diff? $c1='A'$ $c2='a'$ diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 <b>60.</b> What will be the output after the following statements? $x = 27$ $y = 9$ while $x < 30$ and $y < 15$ : $x = x + 1$ $y = y + 1$ <b>61.</b> What output following program will produce $v1='1'$ $v2= 1$ $v3=v1==v2$ (a) Type Error (b) Value Error (c) True will be assigned to v3 (d) False will be assigned to $v3$		(a) True (b) Felce (c) 0	(d) 1	
<b>59.</b> What will be value of diff ? c1='A' c2='a' diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 <b>60.</b> What will be the output after the following statements? x = 27 y = 9 while $x < 30$ and $y < 15$ : x = x + 1 y = y + 1 print(x,y) <b>61.</b> What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3	50	What will be welve of diff 2	• (u)1	
<b>61.</b> What output following program will produce $\mathbf{v} = 1 = \mathbf{A}$ $\mathbf{c} = \mathbf{a}'$ $\mathbf{diff= ord(c1)-ord(c2)}$ <b>print(diff)</b> (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 <b>60.</b> What will be the output after the following statements? $\mathbf{x} = 27$ $\mathbf{y} = 9$ while $\mathbf{x} < 30$ and $\mathbf{y} < 15$ : $\mathbf{x} = \mathbf{x} + 1$ $\mathbf{y} = \mathbf{y} + 1$ print( $\mathbf{x}, \mathbf{y}$ ) <b>61.</b> What output following program will produce $\mathbf{v1} = 1'$ $\mathbf{v2} = 1$ $\mathbf{v3} = \mathbf{v1} = = \mathbf{v2}$ (a) Type Error (b) Value Error (c) True will be assigned to v3 (d) False will be assigned to v3	39.	what will be value of diff ?		
<b>61.</b> What output following program will produce $\mathbf{v} = 1^{*}$ $\mathbf{v} = 1^{*}$ $1^{*}$ $\mathbf{v} = 1^{*}$ $\mathbf{v} =$				
diff= ord(c1)-ord(c2) print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27 y = 9 (a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10 x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2= 1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		c2='a'		
print(diff) (a) Error : unsupported operator '-' (b) 32 (c)-32(b) 32 (d)060.What will be the output after the following statements? $x = 27$ $y = 9$ (a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10while $x < 30$ and $y < 15$ : $x = x + 1$ $y = y + 1$ (a) 26 11 (c) 30 12 (d) 26 1061.What output following program will produce $v1='1'$ $v2= 1$ $v3=v1==v2$ (a) Type Error (c)True will be assigned to v3 (d)False will be assigned to v3		diff= ord(c1)-ord(c2)		
(a) Error : unsupported operator '-' (b) 32 (c)-32 (d)0 60. What will be the output after the following statements? x = 27 y = 9 (a) 26 11 (b) 25 11 (c) 30 12 (d) 26 10 x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		print(diff)		
(c)-32(d)060.What will be the output after the following statements? $x = 27$ $y = 9$ while $x < 30$ and $y < 15$ : $x = x + 1$ $y = y + 1$ print(x,y)(a) 26 11 (b) 25 11 (c) 30 12 (d) 26 1061.What output following program will produce $v1='1'$ $v2=1$ $v3=v1==v2$ (a) Type Error (c)True will be assigned to v3 (d)False will be assigned to v3		(a) Error : unsupported opera	tor '-' (b) 32	
60. What will be the output after the following statements? x = 27 y = 9 while x < 30 and y < 15: x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2=1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		(c)-32	(d)0	
$ \begin{array}{c} x = 27 \\ y = 9 \\ \text{while } x < 30 \text{ and } y < 15: \\ x = x + 1 \\ y = y + 1 \\ \text{print}(x,y) \end{array} $ $ \begin{array}{c} \text{(a) } 26 \ 11 & \text{(b) } 25 \ 11 \\ \text{(c) } 30 \ 12 & \text{(d) } 26 \ 10 \\ \end{array} $	60.	What will be the output after	the following statements?	
y = 9 while x < 30 and y < 15: x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2= 1 v3=v1==v2 (a) Type Error (c)True will be assigned to v3 (d)False will be assigned to v3		$\mathbf{x} = 27$		
while $x < 30$ and $y < 15$ : x = x + 1 y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2= 1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		y = 9	(a) 26 11 (b) 25 11	
x = x + 1 $y = y + 1$ print(x,y) 61. What output following program will produce $v1='1'$ $v2= 1$ $v3=v1==v2$ (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		while x < 30 and y < 15:	(c) 30 12 (d) 26 10	
<pre>y = y + 1 print(x,y) 61. What output following program will produce v1='1' v2= 1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3</pre>	C	x = x + 1		
<ul> <li>print(x,y)</li> <li>61. What output following program will produce v1='1'</li> <li>v2= 1</li> <li>v3=v1==v2</li> <li>(a) Type Error</li> <li>(b) Value Error</li> <li>(c)True will be assigned to v3 (d)False will be assigned to v3</li> </ul>		y = y + 1		
<ul> <li>61. What output following program will produce</li> <li>v1='1'</li> <li>v2= 1</li> <li>v3=v1==v2</li> <li>(a) Type Error</li> <li>(b) Value Error</li> <li>(c)True will be assigned to v3 (d)False will be assigned to v3</li> </ul>		print(x,y)		
<pre>v1='1' v2= 1 v3=v1==v2 (a) Type Error (c)True will be assigned to v3 (d)False will be assigned to v3</pre>	61.	What output following progra	m will produce	
v2= 1 v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		v1='1'	in this produce	
v3=v1==v2 (a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		$v_{2} = 1$		
(a) Type Error (b) Value Error (c)True will be assigned to v3 (d)False will be assigned to v3		$v^{2} = 1$ $v^{3} = v^{1} = v^{2}$		
(c)True will be assigned to v3 (d)False will be assigned to v3		(a) Turna Error	(b) Value Frrer	
v3			(0) value EIIO	
V3		(c) rue will be assigned to ve	o (a) raise will be assigned to	
		V3		

60		_
62.	which of the following operators has highest precedence: $1 + \frac{1}{2} \frac{9}{2} \frac{1}{2} \frac{1}{2}$	:
	[+,-,/,",",0,<<,>>,(],"	
62	$\begin{array}{c c} (a) & (b) (c) & (c) & (c) \\ \hline \\ Which of the following mean the interval of t$	
<b>0</b> 3.	which of the following results in an error?	n
64	(a) = (a)	)
64.	which of the following is an invalid statement?	
	(a) $xyz=1,000,000$ (b) $x y z = 100,200,300$	
65	(c) x, y, z=100, 200, 300 (d) $x=y=z=1,000,000$	
65.	Which of the following defines <b>SyntaxError?</b>	
	(a) It is raised when the file specified in a progra	m
	statement cannot be opened.	
	(b) It is raised when there is an error in the syntax of the	ne
	Python code.	
	(c) It is raised when the requested module definition is n	ot
	IOUIIG.	
	(a) It is raised due to incorrect indentation in the progra	ın
66	Code.	
00.	which of the following defines <b>ValueError</b> :	
	(a) It is raised when the file specified in a progra	m
	(b) It is raised when there is an orrer in the syntax of the	
	(b) It is raised when there is an error in the syntax of the	ne
	(a) It is reject when a built is mathed on energy	
	(c) It is faised when a built-in method of operation	)]] .+
	Niemetehed er inenereniete velves	ιι
	(d) It is rejord due to incorrect indeptation in the program	~
	(d) it is faised due to incorrect indentation in the program	.11
67	It is raised when the denominator in a division operation	'n
07.	is also when the denominator in a division operation	Л
	(a) IndexError (b) IndentationError	
	c) ZeroDivisionError (d) TypeError	
68	It is raised when the index or subscript in a sequence	is
00.	out of range	10
C	(a) IndexError (b) IndentationError	
	(c) ZeroDivisionError (d) TypeError	
69.	It is raised when a local or global variable name is not	
	defined.	
	(a) IndexError (b) IndentationError	
	(c) ZeroDivisionError (d) NameError	
70.	It is raised due to incorrect indentation in the program	
	code.	
	(a) IndexError (b) IndentationError	
	(c) ZeroDivisionError (d) NameError	
<u> </u>		

71.	It is raised when an operator is supplied with a value of
	incorrect data type.
	(a) IndexError (b) TypeError
	(c) ZeroDivisionError (d) NameError
72.	It is raised when the result of a calculation exceeds the
	maximum limit for numeric data type.
	(a) OverFlowError (b) TypeError
	(c) ZeroDivisionError (d) NameError
73.	IndentationError is a type of:
	(a) SyntaxError (b) Logical Error
	(c) Runtime Error (d) Other
74.	Which of following is not a decision-making statement?
	(a) if-elif statement (b) for statement
	(c) if -else statement (d) if statement
75.	In a Python program, a control structure: 🔨
	(a) Defines program-specific data structures
	(b) Directs the order of execution of the statements in the
	program
	(c) Dictates what happens before the program starts and
	after it terminates
	(d) None of the above
76.	Which one of the following is a valid Python if statement?
	(a) if $a \ge 9$ : (b) if $(a \ge 9)$ (c) if $(a \ge 9)$ (d) if $a \ge 9$
77.	if 4+5==10:
	print("TRUE") 🔨
	else:
	print("false")
	print ("True")
	(a) False (b) True (c) false (d) None of these
70	Dradict the systemst of the following code:
78.	
	$11 \times 22 \text{ or } x < 5 \text{ and } x = 0$ :
C	
	cisc:
-	$\mathbf{p}$ ind $\mathbf{n}$ output $\mathbf{j}$
80	identify one negatible output of this code out of the
80.	fallowing entioned
	Irom random import"
	Low-randing(2,3)
	$\int \operatorname{Ingm-ratio}_{\operatorname{Ingm}} \operatorname{Ingm-ratio}_{\operatorname{Ingm}} \operatorname{Ingm-ratio}_{\operatorname{Ingm}} \operatorname{Ingm-ratio}_{\operatorname{Ingm}} \operatorname{Ingm-ratio}_{\operatorname{Ingm}} \operatorname{Ingm-ratio}_{\operatorname{Ingm-ratio}} $
	ior in in range(Low, righ):
	$p_{111}(n,ena=)$
	(a) 3 4 3 (U) 2 3 (C) 4 3 (Q) 3 4 3 0

81.	Given the nested if-else below, what will be the value x
01.	when the source code executed successfully:
	x=0
	a=5 (a) 0 (b) 4
	b=5
	if a>0: (c) 2 (d) 3
	if b<0:
	x=x+5
	elif a>5:
	x=x+4
	else:
	x=x+3
	else:
	x=x+2
	print (x)
82.	Which of the following is False regarding loops in Python?
	(a) Loops are used to perform certain tasks repeatedly.
	(b) while loop is used when multiple statements are to
	executed repeatedly until the given condition becomes
	true.
	(c) while loop is used when multiple statements are to
	executed repeatedly until the given condition becomes
	false
	(d) for loop can be used to iterate through the elements of
	lists.
83.	The for loop in Python is an
	(a) Entry Controlled Loop (b) Exit Controlled Loop
0.4	(c) Both of the above (d) None of the above
84.	(a) continues (b) break (c) stor (d) infinite
05	(a) continue (b) break (c) stop (d) minite
85.	here to the set of the
	n = 10
	answer = $1$
C	while $n > 0$ .
	answer = answer + n
	n = n + 1
	print(answer)
	(a) n starts at 10 and is incremented by 1 each time
	through the loop, so it will always be positive.
	(b) Answer starts at 1 and is incremented by n each time,
	so it will always be positive.
	(c) You cannot compare n to 0 in the while loop. You must
	Compare it to another variable.
	(d) In the while loop body, we must set n to False, and

	this
	Code does not do that
86	What will the following code print?
00.	for i in range(1.4):
	for i in range $(1,4)$ :
	print(i, i, end=' ')
	P(-, j, • )
	(a) 1 1 2 2 3 3
	(b) 1 2 3 1 2 3 1 2 3
	(c) 1 1 1 2 1 3 2 1 2 2 2 3 3 1 3 2 3 3
	(d) 1 1 2 1 3 1 2 1 2 2 2 3 3 1 3 2 3 3
87.	When does the else statement written after loop executes?
	(a) When break statement is executed in the loop
	(b) When loop condition becomes false
	(c) Else statement is always executed
	(d) None of the above
88.	What will be the output of the following Python code?
	for x in range(1, 4):
	for y in range(2, 5):
	if x * y > 6:
	break
	<pre>print(x*y, end="#")</pre>
	(a) 2#3#4#4#6#8#6#9#12# (b) 2#3#4#5#4#6#6#
	(c) $2#3#4#4#6#6#$ (d) $2#3#4#6$
89.	Examine the given Python program and select the
	purpose of the program from the following options:
	N=int(input( Enter the number ))
	1011111111111111111111111111111111111
	$\frac{11}{11} \frac{11}{11} 11$
	(a) To display the proper factors(excluding 1 and the
	number N itself
	(b) To check whether N is a prime or Not
	(c) To calculate the sum of factors of N
C	(d) To display all prime factors of the Number N.
90.	If A=rndom.randint(B,C) assigns a random value between
	1 and 6(both inclusive) to the identifier A, what should be
	the values of B and C, if all required modules have
	already been imported?
	(a) B=0, C=6 (b) B=0,C=7 (c) B=1,C=7 (d) B=1,C=6
91.	Predict the output of the following code:
	import statistics as S
	D=[4,4,1,2,4]
	print(S.mean(D),S.mode(D))
	(a) 1 4 (b) 4 1 (c) 3 4 (d) 4 3

92.	The continue statement is used.
22.	(a) To pass the control to the next iterative statement
	(b) To come out from the iteration
	(c) To break the execution and passes the control to else
	statement
	(d) To terminate the loop
93.	Common types of exception in python are:
	(a) Syntax Error (b) Zero division error
	(c) (a) and (b) (d) None of these
94.	Which of the following is an incorrect logical operator in
	python?
	(a) not (b) in (c) or (d) and
95.	Which of the following is not a function/method of the
	random module in python?
	(a) randfloat()
	(c) random() (d) randrange()
96.	Which of the following symbols are used for comments in
	Python?
	(a) / / (b) & (c) /**/ (d) #
97.	print (id(x)) will print
	(a) Value of x (b) Datatype of x
	(c) Size of x (d) Memory address of x
98.	What will the following expression be evaluated to in
	Python? >>> print((4.00/(2.0+2.0)))
	a)Error b)1.0 <b>c</b> )1.00 d)1
99.	Which of the following datatype in python is used to
	represent any real number :
	(a) int (b) complex (c) float (d) bool
100	>>> print( ( - 33 // 13) * (35 % -2)* 15/3)
	(a) 10.0 (b) -15.0 (c) 15.0 (d) -10.0
101	Which of the following statement(s) would give an error
	afterexecuting the following code?
	x= int("Enter the Value of x:")) #Statement 1
	for y in range[0,21]: #Statement 2
	11 x==y: #Statement 3
•	print (x+y) #Statement 4
	else: #Statement 5
	print (x-y) # Statement 6
	(a) Statement 4 (b) Statement 5
l	(c) Statement 4 & 6 (d) Statement 1 & 2

	2 – MARKS
1.	Evaluate the following expression:
	False and $bool(15/5*10/2+1)$
2.	If given A=2,B=1,C=3. What will be the output of following
	expressions.
	(i) $\operatorname{print}((A > B) \text{ and } (B > C) \operatorname{or}(C > A))$
	(i) $print(A**B**C)$
3.	Write the output of the code given below:
0.	n=10
	g=20
	n*=0//3
	n=q**2
	a+=p
	q p
4	Evaluate the following expressions:
	(a) $5 / / 10 * 9 \% 3 * 8 + 8 - 4$
	(b) $65 > 55$ or not $8 < 5$ and $0 = 55$
5	Fill in the blanks to execute loop from 10 to 100 and 10 to
0.	
	(i)for i in range( ):
	print(i)
	(ii)for i in range( ):
	print(i)
6.	Evaluate the following: >>> print(15.0/4+(8*3.0))
7.	Sona has written the following code to check whether
	number is divisible by 3. She could not run the code
	successfully. Rewrite the code and underline each
	correction done in the code.
	x=10
	for I range in (a)
	if i%3=0:
	print(I)
	else
	pass
8.	Rewrite the following code in Python after removing all
-	syntax error(s). Underline each correction done in the
	code.
	Value=30
	Ior VAL in range(U, Value)
	11 $va1\%4==0$ :
	$print (VAL^*4)$
	EISEII Val%5==0:
	print (VAL+3)
	else
	print(VAL+10)

9.	Mona has written a code to input a positive integer and
	display all its even factors in descending order. Her code
	is having errors. Rewrite the correctcode and underline
	the corrections made
	n-input/"Entor a positiva integar ")
	n-input Enter a positive integer: )
	for i in range(n):
	if i%2:
	if n%i==0:
	print(i.end=' ')
10	Find error in the following code(if any) and correct code by
-0.	rewriting code and underline the correction:
	int/"Extense for "
	x= int("Enter value of x:")
	for in range [0,10]:
	if x=y
	print(x + y)
	else:
	$\operatorname{print}(\mathbf{x},\mathbf{v})$
11	Mithilash has written a code to input a symbol and
11.	Mitmiesh has written a code to input a number and
	evaluate its factorial and then finallyprint the result in
	the format : "The factorial of the <number> is <factorial< th=""></factorial<></number>
	value>" His codeis having errors. Rewrite the correct code
	and underline the corrections made.
	f = 0
	num = input("Enter a number")
	n = num
	while hum> 1:
	f = f * num
	num -= 1
	else:
	print("The factorial of : ", n , "is" , f)
12.	Rewrite the following code after removing the syntactical
	error(if any) Underline each correction:
	X=input("Enter a Number")
	If $\mathbf{r} = 0$ , $\mathbf{r} = 0$ .
	$11 \times 70 2 = 0$
	for 1 range (2°x):
	print i
	loop else:
	print "#"
13.	What possible outputs are expected to be displayed on
	screen at the time of execution of the program from the
	following code? Also specify the maximum value that can
	be assigned to each of the variables I and II
	import rondom
	$\frac{1}{10} \frac{1}{20} \frac{1}{10} \frac{1}{20} \frac{1}{10} \frac$
	ATT=[10,30,40,50,70,90,100]
	L=random.randrange(1,3)

	-
	U=random.randrange(3,6)
	for i in range(L,U+1):
	print(Arr[i],"@",end="")
	(i) 40 @50 @ (ii) 10 @50 @70 @90 @
	(iji) 40 @50 @70 @90 @ (iv) 40 @100 @
14.	Rewrite the following Python program after removing all
	the syntactical errors (if any) underlining each correction:
	v=input("Enter a pumber")
	11 X % 2=0:
	print x, "is even"
	else if x<0:
	print x, "should be positive"
	else;
	print x "is odd"
15.	(i)Find the output generated by the following code:
	a=5
	h=10
	a+=a+h
	$h^{+}-a^{+}b$
	princ(a,b)
	<pre>inim_ist=[ one , iwo , infee , four ] for c in num_list:     print(c) (i) What will be the output of the above code? (ii) How many times the loop executed?</pre>
16	Predict the output of the following code:
10.	num=123
	$f_{-0}$
	s=0
	while (in $25$ ).
	ferm = fluin % 100
	11(rem % 2!= 0):
	i += rem
-	else:
	s+=rem
	num /=100
	print(f-s)
17.	Evaluate the following expressions:
	a) 7*3+4**2//5-8 b) 7>5 and 8>20 or not 12>4

10	
18.	Predict the output of the following:
	for 1 in range(4):
	if i==4:
	break
	else:
	print(i)
	else:
	print("Welcome")
10	Any wrote the code that prints the sum of numbers
19.	hatwoon 1 and the number for each number till 10 She
	between 1 and the number, for each number the to.She
	could not get proper output.
	1=1
	while (i $\leq 10$ ): <b># For every number i from 1 to 10</b>
	sum = 0
	for x in range(1,i+1):
	sum += x <b># Add every number from 1 to i</b>
	print(i, sum) # print the result
	a) What is the error you have identified in this code?
	b) Rewrite the code by underlining the correction/s
20	Evaluate the following expressions:
20.	a) $6+7*4+2*3//5$ 8 b) $8-20$ and 11
01	$J = \frac{1}{2} + $
21.	De li 441 et et 641 641
22.	Predict the output of the following:
	X = 3
	Y = 5
	Z = -2
	X *= Y + Z
	Y = X * 2 + Y
	Z += X + Y
	print(X, Y, Z)
23.	Predict the output of the following code:
	X = 3
	Y = 2
	Z = -5
C	X = Y + Z
	Y / = X - 7
	7 *= X + V
	print(X   Y   7)
24	Dredict the output of the following:
<b>4</b> 7.	$\frac{1}{1000} = \frac{1}{2000} = \frac{1}{1000} = \frac{1}{10000} = \frac{1}{10000000000000000000000000000000000$
	$W_1, W_2, U = 3, 0, 12$
	N, U, M = $U+2$ , M <sup>3</sup> , N-5.
	print(N,O,M)
25.	V, W, X = 20, 15, 10
	W, V, X = X-2, V+3, W*2.
	print(V,X,W)

26. Predict the output of the following: a=None b=None x=4 for i in range(2,x//2): if $x'\%i=0$ : if a is None: a=i else: b=i break print(a,b) 27. Predict the output of the following: for i in range(1, 15, 2): temp = i if $i\%3==0$ : temp = i+1 elif i==11: break print(temp, end='\$') 28. Predict the output of the following: P,S=1,0 for X in range(-5, 15, 5): $P^*=X$ S+=X if $S==0$ : break else: print(P, "#", S) 29. Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if $x * y > 6$ : break print(x*y, end="#") 30. $N=5$ C=1 while (C<8): if(C=3  or  C==5): C+=1 continue print(C, "*,N, =', C*N) C+=1		
$ \begin{array}{c c} a=None \\ b=None \\ x=4 \\ for i in range(2,x//2): \\ if x%i=0: \\ if a is None: \\ a=i \\ else: \\ b=i \\ preak \\ print(a,b) \end{array} $ $ \begin{array}{c} \textbf{27.} Predict the output of the following: \\ for i in range(1, 15, 2): \\ temp = i \\ if i%3==0: \\ temp = i+1 \\ elif i%5==0: \\ continue \\ elif i==11: \\ break \\ print(temp, end="$") \end{array} $ $ \begin{array}{c} \textbf{28.} Predict the output of the following: P,S=1,0 \\ for X in range(-5, 15, 5): \\ P^*=X \\ S+=X \\ if S==0: \\ break \\ else: \\ print(P, "#", S) \end{array} $ $ \begin{array}{c} \textbf{29.} Predict the output of the following: \\ for x in range(1, 4): \\ for y in range(2, 5): \\ if x * y > 6: \\ break \\ print(x*y, end="#") \end{array} $ $ \begin{array}{c} \textbf{30.} C=1 \\ while (C<8): \\ while (C<8): \\ if (C=3 \text{ or } C=5): \\ C+=1 \\ continue \\ print(C, "*, N, =', C*N) \\ C+=1 \end{array} $	26.	Predict the output of the following:
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$ \begin{array}{c} x=4 \\ \text{for i in range}(2,x//2): \\ \text{if } x^{\circ}_{0} i==0: \\ \text{if a is None:} \\ a=i \\ else: \\ b=i \\ \text{break} \\ print(a,b) \end{array} $ $ \begin{array}{c} \textbf{27.}  \text{Predict the output of the following:} \\ \text{for i in range}(1, 15, 2): \\ \text{temp } = i \\ \text{if } i^{\circ}_{0} 3==0: \\ \text{temp } = i+1 \\ elif i^{\circ}_{0} 5==0: \\ \text{continue} \\ elif i==11: \\ \text{break} \\ \text{print(temp, end='$')} \end{array} $ $ \begin{array}{c} \textbf{28.}  \text{Predict the output of the following:} \\ \text{for X in range}(-5, 15, 5): \\ P^{*}=X \\ S^{+}=X \\ \text{if } S==0: \\ \text{break} \\ else: \\ print(P, "#", S) \end{array} $ $ \begin{array}{c} \textbf{29.}  \text{Predict the output of the following:} \\ \text{for y in range}(2, 5): \\ \text{if } x^{*} y > 6: \\ \text{break} \\ print(x^{*}y, end="#") \end{array} $ $ \begin{array}{c} \textbf{30.}  \begin{array}{c} \text{N=5} \\ \text{C=1} \\ \text{while } [C<8]: \\ \text{if}(C=3 \text{ or } C==5): \\ C+1 \\ \text{continue} \\ \text{print}(C, "*, N, =', C^{*}N) \\ C+1 \end{array} $		b=None
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if $x\%_i ==0$ : if a is None: a=i else: b=i break print(a,b) 27. Predict the output of the following: for i in range(1, 15, 2): temp = i if $i\%_3 ==0$ : temp = i+1 $elif i\%_3 ==0$ : continue elif i==11: break print(temp, end='\$) 28. Predict the output of the following: P,S=1,0 for X in range(-5, 15, 5): $P^*=X$ S+=X if $S==0$ : break else: print(P, "#", S) 29. Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if $x * y > 6$ : break print(x*y, end="#") 30. N=5 C=1 while (C<8): if (C==3 or C==5): C+=1 continue print(C, "*, N, '=', C*N) C+=1		for i in range $(2, x/2)$ :
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a = i $a = i$ $a = i$ $a = i$ $b = i$ $a = i$ $b = i$ $c =$		if a is None.
a a - 1 else: b=i break print(a,b)27.Predict the output of the following: for i in range(1, 15, 2): temp = i if i%3==0: temp = i+1 elif i==11: break print(temp, end='\$')28.Predict the output of the following: P,S=1,0 for X in range(-5, 15, 5): P*=X S+=X if S==0: break else: print(P, "#", S)29.Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if x * y > 6: break print(x*y, end="#")30.N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C, **, N, '=', C*N) C+=1		
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print(a,b) <b>27.</b> Predict the output of the following: for i in range(1, 15, 2): temp = i if i%3==0: continue elif i==11: break print(temp, end='\$') <b>28.</b> Predict the output of the following: P,S=1,0 for X in range(-5, 15, 5): P*=X S+=X if S==0: break else: print(P, "#", S) <b>29.</b> Predict the output of the following: for y in range(2, 5): if x * y > 6: break print(x*y, end="#") <b>30.</b> N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C, **, N, '=', C*N) C+=1		break
<pre>27. Predict the output of the following: for i in range(1, 15, 2): temp = i if i%3==0: temp = i+1 elif i%5==0: continue elif i==11: break print(temp, end='\$') 28. Predict the output of the following: P,S=1,0 for X in range(-5, 15, 5): P*=X S+=X if S==0: break else: print(P, "#", S) 29. Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if x * y &gt; 6: break print(x*y, end="#") 30. N=5 C=1 while (C&lt;8): if(C==3 or C==5): C+=1 continue print(C, '*', N, '=', C*N) C+=1</pre>		print(a,b)
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temp = i if $i\%_{0}^{3} = 0$ : temp = i+1 elif $i\%_{0}^{5} = 0$ : continue elif i==11: break print(temp, end='\$) <b>28.</b> Predict the output of the following: P,S=1,0 for X in range(-5,15,5): P*=X S+=X if S==0: break else: print(P, "#", S) <b>29.</b> Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if x * y > 6: break print(x*y, end="#") <b>30.</b> N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C, '*',N,'=',C*N) C+=1 ***************************		for i in range(1, 15, 2):
if $i^{9} (33=0)$ : temp = i+1 elif $i^{9} (53=0)$ : continue elif i==11: break print(temp, end='\$') <b>28.</b> Predict the output of the following: P,S=1,0 for X in range(-5,15,5): P*=X S+=X if S==0: break else: print(P, "#", S) <b>29.</b> Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if x * y > 6: break print(x*y, end="#") <b>30.</b> N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C,'*',N,'=',C*N) C+=1 ************************************		temp = i
$temp = i+1$ $elif i\%5==0:$ $continue$ $elif i==11:$ $break$ $print(temp, end='$)$ <b>28.</b> $Predict the output of the following:$ $P,S=1,0$ for X in range(-5,15,5): $P^*=X$ $S+=X$ if S==0: break $else:$ $print(P, "#", S)$ <b>29.</b> $Predict the output of the following:$ for x in range(1, 4): for y in range(2, 5): if x * y > 6: break $print(x*y, end="#")$ <b>30.</b> $N=5$ $C=1$ while (C<8): if(C==3 or C==5): C+=1 continue print(C,'*',N,'=',C*N) $C+=1$ ************************************		if $i\sqrt[6]{3}==0$ :
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elif i==11: break print(temp, end='\$') <b>28.</b> Predict the output of the following: P,S=1,0 for X in range(-5,15,5): P*=X S+=X if S==0: break else: print(P, "#", S) <b>29.</b> Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if x * y > 6: break print(x*y, end="#") <b>30.</b> N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C, '*, N, '=', C*N) C+=1 ***********************		
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$ \begin{array}{ c c c c c } \hline \text{oreak} & & & \\ \hline \text{print(temp, end='\$')} \\ \hline \textbf{28.} & & \text{Predict the output of the following:} \\ P,S=1,0 & & \\ for X in range(-5,15,5): & P^{*}=X & & \\ S^{+}=X & & \\ S^{+}=X & & \\ S^{+}=0: & & \\ break & & \\ else: & & \\ print(P, "#", S) \\ \hline \textbf{29.} & & \text{Predict the output of the following:} \\ for x in range(1, 4): & & \\ for y in range(2, 5): & & \\ if x * y > 6: & & \\ break & & \\ print(x^*y, end="#") \\ \hline \textbf{30.} & & \text{N=5} & \\ C=1 & & \\ while (C<8): & & \\ if(C==3 \text{ or } C==5): & & \\ C+=1 & & \\ continue & & \\ print(C, '*', N, '=', C^*N) & & \\ C^{+}=1 & & \\ \end{array} $		
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$ \begin{array}{c} \mbox{if } S==0; \\ \mbox{break} \\ \mbox{else:} \\ \mbox{print}(P, "\#", S) \end{array} \\ \mbox{29.} \ \begin{array}{c} \mbox{Predict the output of the following:} \\ \mbox{for } x \mbox{ in } range(1, 4); \\ \mbox{for } y \mbox{ in } range(2, 5); \\ \mbox{if } x \ ^{x} \ y > 6; \\ \mbox{break} \\ \mbox{print}(x^{*}y, \mbox{end}="\#") \end{array} \\ \mbox{30.} \ \begin{array}{c} \mbox{N=5} \\ \mbox{C=1} \\ \mbox{while } (C<8); \\ \mbox{if}(C==3 \ or \ C==5); \\ \mbox{C+=1} \\ \mbox{continue} \\ \mbox{print}(C, '*', N, '=', C^{*}N) \\ \mbox{C+=1} \end{array} \\ \end{array} \\ \end{tabular} $		S+=X
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<b>29.</b> Predict the output of the following: for x in range(1, 4): for y in range(2, 5): if x * y > 6: break print(x*y, end="#") <b>30.</b> N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C,'*',N,'=',C*N) C+=1		print(P "#" S)
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<pre>iof x in range(1, 4):     for y in range(2, 5):         if x * y &gt; 6:             break             print(x*y, end="#") 30. N=5         C=1         while (C&lt;8):             if(C==3 or C==5):                 C+=1                 continue             print(C,'*',N,'=',C*N)                 C+=1 ************************************</pre>	49.	for y in range(1, 4).
<pre>if y in range(2, 5): if x * y &gt; 6: break print(x*y, end="#") 30. N=5 C=1 while (C&lt;8): if(C==3 or C==5): C+=1 continue print(C,'*',N,'=',C*N) C+=1</pre>		$101 \times 111 \operatorname{range}(1, 4).$
<pre>if x * y &gt; 6: break print(x*y, end="#") 30. N=5 C=1 while (C&lt;8): if(C==3 or C==5): C+=1 continue print(C,'*',N,'=',C*N) C+=1 ************************************</pre>		for y in range(2, 5):
break print(x*y, end="#")           30.         N=5 C=1 while (C<8): if(C==3 or C==5): C+=1 continue print(C,'*',N,'=',C*N) C+=1           ************************************		$11 x ^ y > 0:$
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print(C, '*', N, '=', C*N) C+=1 ************************************		continue
C+=1		print(C, '*', N, '=', C*N)
***************************************	L	C+=1
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