

Set 3

	Innovators Entrance Te	est (IET)
Name of the Student:		Roll No. :
Branch:		Year & Sem:
Mobile No:		
Date: 9 th August 202	24	Duration: 90 mins
Python fundamentals		
What is the purpose of the Answer:	self parameter in class metho	ds?
2. What is the difference betv Answer:	veen == and is operators?	
3. How do you create a virtua Answer:	l environment in Python?	
4. What is the output of the formula print (bool (0), bool (3 Answer:		
5. How do you read a file in P Answer:	ython?	
6. What is a list comprehension Answer:	on?	
7. What is the purpose of the Answer:	pass statement?	
8. What is the output of the forunt ({1, 2, 3} &		

Answer:

Answer:

9. How do you install a package using pip?

<pre>11. What is the output of the following code? print([i for i in range(5) if i % 2 == 0]) Answer:</pre>
12. How do you create a class in Python? Answer:
13. What is the purpose of theinit method? Answer:
<pre>14. What is the output of the following code? print("Python".lower()) Answer:</pre>
15. How do you create a tuple in Python? Answer:
<pre>16. What is the output of the following code? print(2 ** 3) Answer:</pre>
17. How do you check the data type of a variable? Answer:
<pre>18. What is the output of the following code? print("Hello, {0}!".format("World")) Answer:</pre>
19. How do you remove an element from a list? Answer:
<pre>20. What is the output of the following code? print("Hello, World!".replace("World", "Python")) Answer:</pre>
21. How do you create a generator in Python? Answer:
<pre>22. What is the output of the following code? print(type([]) is list) Answer:</pre>
23. How do you create a dictionary in Python? Answer:
24 What is the difference between append() and extend() methods in lists?

10. What is the difference between range() and xrange() in Python 2?

Answer:

Answer:

26. How do you handle exceptions in Python? Answer:
27. What is a lambda function? Answer:
<pre>28. What is the output of the following code? print("Hello, World!"[::-1]) Answer:</pre>
29. How do you create a set in Python? Answer:
Logical reasoning & problem-solving
1. Scenario: A bat and a ball cost \$1.10 in total. The bat costs \$1 more than the ball. How much does
the ball cost?
- A) \$0.05 - B) \$0.10 - C) \$0.15 - D) \$0.20 Answer:
2. Scenario: You are given 12 balls, one of which is heavier or lighter than the others. How can you determine the odd ball in just three weighings? - A) Weigh 6 balls against 6 balls. - B) Weigh 4 balls against 4 balls. - C) Weigh 3 balls against 3 balls. - D) Weigh 2 balls against 2 balls.
Answer:
3. Scenario: You are in a room with three switches. One of them controls a light bulb in another room. You can only enter the room with the light bulb once. How do you determine which switch controls the bulb?
 - A) Turn on one switch, wait 5 minutes, turn it off, turn on the second switch, and enter the room. - B) Turn on all switches and enter the room. - C) Turn on one switch and immediately enter the room. - D) Turn on two switches and enter the room.
Answer: 4. Scenario: A farmer has 17 sheep and all but 9 die. How many are left? - A) 8 - B) 9 - C) 17 - D) 0
Answer: 5. Scenario: You have a 3-liter jug and a 5-liter jug. How can you measure exactly 4 liters of water?
- A) Fill the 5-liter jug and pour it into the 3-liter jug twice.
- B) Fill the 3-liter jug and pour it into the 5-liter jug twice.
- C) Fill the 5-liter jug, pour it into the 3-liter jug, then fill the 5-liter jug again and pour it into the 3-liter jug until it is full.
- D) Fill the 3-liter jug, pour it into the 5-liter jug, then fill the 3-liter jug again and pour it into the

25. What does the len() function do?

5-liter jug until it is full.

Answer:

Answer:

		nd sisters, I have	e none. But th	nat man's father is my father's sor	າ."
Who is in the pio					
- A) His son	- B) His father	- C) Hir	nself	- D) His uncle	
Answer:	, are in a race and	l vou overtake t	the person in	second place What position are a	ou in
now?	a are ili a race and	i you overtake i	.ne person in	second place. What position are y	/ou ii
- A) First	- B) Second	- C) Third	- D) Fourth		
Answer:	b) second	c, ma	D) rouren		
	ou have a bowl w	ith six apples a	nd vou take a	way four, how many do you have?	?
- A) Two		- C) Six	- D) None	, , , , , , , , , , , , , , , , , , , ,	
Answer:	•	•	•		
9. Scenario: A c	lock shows the tir	me as 3:15. Wh	at is the angle	e between the hour and the minu	te
hands?					
- A) 0 degrees	- B) 7.5 degrees	- C) 15	degrees	- D) 30 degrees	
Answer:					
other, but they b	•	nt rates. How ca	an you measu	minutes to burn from one end to re exactly 45 minutes?	tne
	ends of both rope			•	
- C) Light one e	end of one rope a	nd both ends of	f the other ro	pe.	
	end of each rope.				
Answer:					
11. Scenario: If why?	you could go bac	k in time and ch	nange one eve	ent in history, what would it be an	ıd
Answer:					
		ed on a deserte	d island and c	ould only bring three items, what	•
would they be a Answer:	nd why?				
13. Scenario: If Answer:	you could instant	ly learn any ski	ll, what would	d it be and why?	
Answer:	you could meet y	our future self,	what would y	ou ask them?	
15 Scenario: If	you could be any	animal for a da	ov which anim	nal would you choose and why?	
Answer:	you could be ally		y, willen armi	iai would you choose and why:	
16 Scenario: If	you could have a	ny ioh in the we	arld what wo	uld it be and why?	
Answer:	you could have a	ny job in the we	ma, what wo	aid it be and why:	
	you could invent	something to n	nake life easie	r, what would it be and why?	
Answer:					
18. Scenario: If	you could travel t	o any point in t	the future, ho	w far ahead would you go and wh	ıy?
Answer:		-		. -	
10 Scanarios If	von could cwitch	lives with anyo	ne for a day s	who would it be and why?	
TO SCHIMIC II	VOULTURED SWITCH	TIVES WITH AUVO	ue iui a uav 1	with while it de alle Wilvi	

6. Scenario: A man is looking at a picture of someone. His friend asks, "Who is it you are looking

Answer:

Answer:			
21. Scenario: Answer:	If you could have a	a conversation v	with your past self, what advice would you give?
22. Scenario: Answer:	If you could chang	e one thing abo	out the education system, what would it be and why?
23. Scenario: Answer:	If you could elimin	ate one of your	weaknesses, which one would it be and why?
24. Scenario: Answer:	Imagine you are ir	a sinking rowb	oat surrounded by sharks. How would you survive?
25. Scenario: Answer:	If you could have o	dinner with any	historical figure, who would it be and why?
26. Scenario: start? Answer:	If you were given a	a million dollars	to start a business, what kind of business would you
27. Scenario: Answer:	If you could chang	e one law in yo	ur country, what would it be and why?
28. Scenario: Answer:	If you could live in	any country in	the world, where would you live and why?
29. Scenario: Answer:	If you could have a	any superpower	, what would it be and how would you use it?
30. Scenario: why? Answer:	If you could solve	one of the worl	d's biggest problems, which one would it be and
Communic	ation skills		
It's _ cold of a) very Answer:	e correct adverb: outside today. b) too	c) so	d) much
	correct modal verb me with my home		
a) Can	b) Could	c) Would	d) Will

20. Scenario: If you could master any instrument, which one would you choose and why?

Answer:

3. Choose the correct form of the verb:

- He _ to school	every day.			
a) go		c) gone	d) going	
Answer:				
4. Select the corre	ct adjective:			
- This is the _ bo	ok I've ever read			
a) best	b) better	c) good	d) well	
Answer:				
5. Choose the corr	rect preposition:			
- The cat is hidin				
a) in	b) at	c) on	d) under	
Answer:				
6. Select the corre				
- He sings well, _				
	b) but	c) so	d) or	
Answer:				
7. Choose the cor	· ·			
is going to th	• •		1	
•	b) Whom	c) Whose	d) Which	
Answer:				
8. Select the corre				
- They _ watchin	_		1.	
_ *	b) has	c) were	d) was	
Answer:				
9. Choose the corr				
-	milk from the st	_	ما ا م، م	
	b) some	c) a	d) an	
Answer:	ract form of tha	orb.		
10. Select the cor				
a) did	ob on her project b) done		d) doing	
Answer:	b) done	c) does	u) doing	
11. Choose the co	rract advarh:			
- It's _ cold outsi				
a) very	•	c) so	d) much	
Answer:	5) (00	c) 30	a) mach	
12. Select the corr	rect modal verb:			
	ne with my home	work?		
a) Can	b) Could		d) Will	
Answer:	2, 20 0.10	o, 110 a.a.	<i>u,</i>	
13. Fill in the blan	k with the correc	ct form of the ve	rb:	
	ery happy yester			
Answer:	, , , , , , , , , , , , , , , , , , , ,	,		
14. Fill in the blan	k with the correc	t preposition:		
- The book is _ t				
Answer:				
15. Fill in the blan	k with the correc	ct article:		
- I saw _ elephar	nt at the zoo.			
Answer:				
16. Fill in the blan	k with the correc	ct pronoun:		
is your favori	te color?			
Answer:				
17. Fill in the blank with the correct conjunction:				
- I wanted to go, _ I was too tired.				
Answer:				
18. Fill in the blan	k with the correc	t adjective:		
- This is the _ (go	ood) day of my li	fe.		
Answer:				

19. Fill in the blank with the correct adverb: - She sings _ (beautiful). Answer: 20. Fill in the blank with the correct form of the verb: - They _ (to go) to the park every Sunday. Answer: 21. Fill in the blank with the correct preposition: - He is interested _ learning new languages. 22. Fill in the blank with the correct article: - She is honest person. Answer: 23. Fill in the blank with the correct form of the verb: - She _ (to be) very happy yesterday. Answer: 24. Fill in the blank with the correct preposition: - The book is _ the table. Answer: 25. Fill in the blank with the correct article: - I saw elephant at the zoo. Answer: 26. Fill in the blank with the correct pronoun: - _ is your favorite color? 27. Fill in the blank with the correct conjunction: - I wanted to go, _ I was too tired. Answer: 28. Fill in the blank with the correct adjective: - This is the (good) day of my life. Answer: 29. Fill in the blank with the correct adverb: - She sings _ (beautiful). Answer: 30. Fill in the blank with the correct form of the verb: - They _ (to go) to the park every Sunday. Answer: 31. Fill in the blank with the correct preposition: - He is interested _ learning new languages. Answer: 32. Fill in the blank with the correct article: - She is _ honest person. 33. Choose the correct form of the verb: - He _ to school every day. d) going a) go b) goes c) gone Answer: 34. Select the correct adjective: - This is the _ book I've ever read. b) better d) well a) best c) good **Answer:** 35. Choose the correct preposition: - The cat is hiding _ the couch. a) in b) at d) under c) on Answer: 36. Select the correct conjunction: - He sings well, _ he can't dance. b) but a) and c) so d) or Answer:

37. Choose the	correct pronoun	:		
is going to	the party?			
a) Who	b) Whom	c) Whose	d) Which	
Answer:				
38. Select the co	orrect verb tense	2:		
- They _ watch	ing the movie w	hen I arrived.		
a) have	b) has	c) were	d) was	
Answer:				
39. Choose the	correct article:			
- I need to buy	$_{\prime}$ _ milk from the	store.		
a) any		c) a	d) an	
Answer:				
40. Choose the	correct form of t	he verb:		
- She _ to the s	tore every day.			
a) go	b) goes	c) gone	d) going	
Answer:	, 0	. 0	, 0 0	
41. Select the co	orrect adjective:			
	ook I've ever rea	ad.		
-	b) better		d) well	
Answer:	,	, 0	,	
42. Choose the	correct prepositi	on:		
	ing _ the couch.			
a) in	b) at	c) on	d) under	
Answer:	,	•	,	
43. Select the co	orrect conjunction	on:		
	_ he can't dance			
a) and	b) but	c) so	d) or	
Answer:	,	,	,	
44. Choose the correct pronoun:				
is going to t	•			
	b) Whom	c) Whose	d) Which	
Answer:	-,	,	-,	
45. Select the co	orrect verb tense	2:		
- They _ watching the movie when I arrived.				
a) have	b) has	c) were	d) was	
Answer:	-,	.,	,	
46. Choose the	correct article:			
	_ milk from the	store.		
a) any	b) some	c) a	d) an	
Answer:	.,	.,	- , -	
47. Select the co	orrect form of th	e verb:		
- She _ a great job on her project.				
a) did	b) done	c) does	d) doing	
Answer:	, -	,	, - 0	