No. of Printed Pages: 7

Sl. No.

Question Booklet Code



21MAT1S1LP

M.Sc. I Semester Degree Examination, April/May - 2023 Skill Enhancement Courses (SEC)

MATHEMATICS

Python Programming

Time: 1 Hour Maximum Marks: 30

INSTRUCTIONS TO CANDIDATES

- 1. The Question Paper will be given in the form of a Question Booklet. There will be four/two/one versions of Question Booklets with Question Booklet Code viz. **A**, **B**, **C** & **D** / **A** & **B**/**A**.
- 2. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same Code.
- 3. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him contains all the 30 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same Code. This is most important.
- 4. A blank sheet of paper is attached to the Question Booklet. This may be used for Rough Work.
- 5. Please read carefully all the instructions on the top of the Answer Sheet before marking your answers.
- 6. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using **Black Ball-Point Pen** in the OMR Answer Sheet.
- 7. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator.
- 8. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.
- 9. First fifteen minutes is provided to fill the general information of the Student. Eg. Student Name, Student ID, etc. in the OMR Answer Sheet.
- 10. Without the instruction of the Invigilator do not open the Question Paper Booklet Seal.

1.	Which	kevword	is	used	for	function	in	python	language	5
	** 111011	ncy word	10	abca	101	idilotion		Python	iangaage	•

(A) Function

(B) Def

(C) Fun

(D) Define

2. Which type of programming does python support?

(A) Object Oriented programming (B) Structured programming

(C) Functional programming

(D) All of the mentioned

3. What will be the output of the following Python code?

X = 'abcd'

for i in range (len(X)):

print(i)

(A) abcd

(B) 0 1 2 3

(C) abcd

(D) 1234

4. What arithmetic operators cannot be used with strings in python?

(A) *

(B) -

(C) +

(D) All of the mentioned

5. What will be the output of the following python code?

 $a = \{3, 4, 5\}$

 $b = \{5, 6, 7\}$

a|b

(A) Invalid operation

(B) {3, 4, 5, 6, 7}

(C) {5}

(D) {3, 4, 6, 7}

6. What are the two main types of functions in Python?

(A) System function

(B) Custom function

(C) Built-in function and user defined function

(D) User function

(D) 1

(D)

7.	Wha	at is the output	of th	is expression,	3*1**3	
	(A)	27	(B)	9	(C)	3

8. What will be the output of the following python statement?

'a'+"b"+'c'

(A) 'abc' (B) 'a'+"b"+'c'

(C) a+b+c (D) None of the above

9. What will be the output of this code?

abs(math.sqrt(36))

import math

(A) Error (B) -6 (C) 6 (D) 6.0

10. Which of the following is the truncation division operator in python?

(A) % (B) // (C) /

11. What will be the output of this statement?

def my_function():

print("my world")

 $my_function()$

(A) my world (B) Error

(C) "my world" (D) None of the above

12. What will be the output for the following code? Import numpy as np. a=np.array ([1, 2, 3]) print a

(A) [[1, 2, 3]] (B) 1, 2, 3 (C) [1, 2, 3] (D) Error

24 1 141	MII	31 <i>D</i> 1				т .			
13.	Wha	t will be the out	tput	of the follo	wing	pyth	on code ?		
	i = 2								
	whil	e True :							
	if i%	63 = 0:							
		break							
	prin	t(i)							
	i+=	2							
	(A)	2 4 6 8 10	(B)	2 4		(C)	5 6	(D)	error
14.	Wha	t will be the out	tput	of the follo	wing	pyth	on code ?		
	a={4	1, 5, 6}							
	b={2	2, 8, 6}							
	a-b								
	(A)	{4, 5}							
	(B)	{6 }							
	(C)	Error as unsup	porte	ed operand	type	for	set data type	е	
	(D)	Error as the du	aplica	ate item 6	is pr	esent	in both set	s	
15.	Whi	ch of the followi	ng cl	haracter is	used	d to g	give Single-li	ne comn	nents in Python ?
	(A)	//	(B)	#		(C)	!	(D)	/*
16.	Whi	ch one of the fo	llowi	ng is the c	orrec	t ext	ension of th	e Python	file ?
	(A)	.p	(B)	.python		(C)	.py	(D)	None of these
17.	Whi	ch one of the fol	llowir	ng is not a	keyv	vord :	in python la	nguage ?	,
	(A)	if	(B)	for		(C)	while	(D)	sum
18.	Is P	ython case sens	sitive	when dea	ling v	with	identifiers?		
	(A)	No			(B)	Yes			
	(C)	Machine deper	ndent	t	(D)	Non	e of the me	ntioned	

19. What does 3^4 evaluate to?

- (A) 81
- (B) 12
- (C) 0.75

(D) 7

20. What will be the output of the following python expression if X = 56.236?

print ("%.2f"%X)

- (A) 56.236
- (B) 56.23
- (C) 56.0000
- (D) 56.24

21. What will be the output of the following Python code?

i = 1

While True:

if
$$i\% 3 = 0$$
:

break

print(i)

$$i + = 1$$

(A) 123

(B) Error

(C) 12

(D) None of the mentioned

22. What will be the output of the following Python code?

$$d = \{0: 'a', 1: 'b', 2: 'c'\}$$

for i in d:

print (i)

(A) 0 1 2

(B) abc

(C) 0 a 1 b 2 c

(D) None of the mentioned

23. What will be the output of this statement?

for X in range (6):

print (x)

(A) 0 1 2 3 4 5 6

(B) 0 1 2 3 4 5

(C) 123456

(D) None of the above

24.	What will be the output of the following python statement?								
	prin	t('new', 'line')							
	(A)	Error			(B)	Out	put equivale	nt to pri	nt 'new\nline
	(C)	newline			(D)	new	line		
25.	In P	ython language,	, nun	npy stands	for ?)			
	(A)	Numbering Pyr	thon		(B)	Nun	nber in Pytho	on	
	(C)	Numerical Pyt	hon		(D)	Non	e of the abov	ve .	
26.	Wha	at will be the ou	tput	of the follo	owing	pyth	on code snip	pet if $x=$:1 ?
	x<<2	2	•		J		-	-	
	(A)	8	(B)	2		(C)	1	(D)	4
27	Whi	ch of the follow	ina is	s an invali	d sta	temer	nt 2		
21.				s air iiivaii				2000	
	` ,	abc = 1,000,000			` '		c=1000 2000		
	(C)	a, b, $c = 1000$,	2000	, 3000	(D)	a_b_	c = 1,000,000	0	
28.	Whi	ch of the followi	ng fu	ınctions is	a bu	ilt-in	function in	python ?	•
	(A)	seed()			(B)	sqrt	()		
	(C)	factorial()			(D)	prin	t()		
29.	Wha	at will be the ou	tput	of the follo	owing	pyth	on expression	n ? roun	ıd (8.576)
	(A)	8	(B)	8.6	C	(C)	9	(D)	8.5
	\ -/		(-)			(-)		(-)	
30.	Whi	ch of the follow	ing s	tatements	is us	ed to	create an e	mpty set	in Python ?
	(A)	()	(B)	[]		(C)	Set ()	(D)	{}

SPACE FOR ROUGH WORK

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