## Catalog

## MA 106 Endsem Exam : Part A Indian Institute of Technology Bombay Date: 19th April 2023

Timing: 9.30 to 10.30 AM	Spring 2023, 1	II	Max Mark: 20
Name:		Div/Tu	torial:
Roll Number:		,	
Please read the follo	owing instruction be	fore answering	the question.
a. The (Optical Mark Recognition)	OMR sheet will be c	ollected back a	t 10.30 AM.
b. There is 15 questions in Part A. F	Every question conta	ins a single cor	rect answer.
c. Use pencil/pen to fill the correct sheet will only be evaluated.	choices in the OMI	R sheet. <b>Ansv</b>	ver provided in the OMR
Question 1 [attention] Only a Test/1	perfect response w	ill be scored 1	point - otherwise, null score.
A Wrong	B Wrong C	Wrong	Correct
Question 2 [attention2] Only $Test/2$	a perfect response v	vill be scored 1	point - otherwise, null score.
A Wrong	B Wrong C	Wrong	Correct
	a perfect response v	vill be scored 1	point - otherwise, null score.
A Wrong	B Wrong C	Wrong	Correct
	a perfect response v	vill be scored 1	point - otherwise, null score.
A Wrong	B Wrong C	Wrong	Correct
Question 5 [q1] This question re	elated to Limit/1. T	he correct ansv	ver is Option A.
Option A B	Option B C	Option C	D Option D
Question 6 [q2] This question is	related to Limit/2.	The correct ar	aswer is Option B.
A Option A	Option B C	Option C	D Option D
Question 7 [q3] This question is	related to Limit/3.	The correct ar	swer is Option D.
A Option A B	Option B C	Option C	Option D

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Question	8 [	[4] Th	is que	stion is	related	to Lim	nit/4. T	he corre	ect ansv	ver is	Option A.
	A	Option	D	В	Option	n B	$\mathbf{C}$	Option	С		Option A
Question	9 [s	seq1]	Γhis q	uestion	is relat	ed to S	sequence	e/1. Th	e correc	et ansv	ver is Option A.
	A	Option	D	В	Option	n B	$\mathbf{C}$	Option	C		Option A
Question	10	[seq2]	This	questio	n is rela	ated to	Sequen	ce/2. T	he corre	ect ans	swer is Option B.
	A	Option	D		Option	ı B	$\mathbf{C}$	Option	С	D	Option D
Question	11	[seq3]	This	questio	n is rela	ated to	Sequen	ce/3. T	he corre	ect ans	swer is Option A.
		Option	A	В	Option	n B	$oxed{C}$	Option	С	D	Option D
Question $\left\{\frac{1}{n}\right\}$	12	[seq4]	This	questio	on is re	lated to	o Seque	ence/4.	What	is the	limit of the sequence
			0	В	] 1	$oxed{C}$	$\infty$	D	Not D	efined	
Question	13	[ser1]	This	questio	n is rela	ated to	Series/	1. The	correct	answe	r is Option B.
	A	Option	A		Option	в	$\Box$	Option	С	D	Option D
Question	14	[ser2]	This	questio	n is rela	ated to	Series/	2. The	correct	answe	r is Option D.
	A	Option	A	В	Option	В	$\Box$	Option	С		Option D
Question	<b>15</b>	[ser3]	This	questio	n is rela	ated to	Series/	3. The	correct	answe	r is Option C.
	A	Option	A	В	Option	n B		Option	С	D	Option D
Question	16	[ser4]	This	questio	ı is rela	ated to	Series/	4. The	correct	answe	r is Option C.
	A	Option	A	В	Option	В		Option	С	D	Option D
Question	17	[ser5]	This	questio	ı is rela	ated to	Series/	5. The	correct	answe	r is Option D.
	A	Option	A	В	Option	n B	$oxed{C}$	Option	С		Option D
${f Question}$	18	[ser6]	This	question	n is rela	ated to	Series/	6. What	t is the	sum o	$f \sum \frac{1}{n^2}$
			A	$\frac{\pi^2}{2}$	В	$\frac{\pi^2}{3}$	$\Box$	$\frac{\pi}{4}$		$\frac{\pi^2}{6}$	
Question	19	[ser7]	This	questio	n is rela	ated to	Series/	7. What	t is the	sum o	$f \sum \frac{1}{n^4}$
			A	$\frac{\pi^2}{6}$	В	$\frac{\pi^4}{15}$	$oldsymbol{\mathbb{C}}$	$\frac{\pi^2}{90}$		$\frac{\pi^4}{90}$	

## MA 106 Part A Optical Mark Recognition (OMR) Sheet

Encode Rollnumber	Division					
0 0 0 0 0 0 0 0	1	Name:				
	2					
2 2 2 2 2 2 2 2	3					
3 3 3 3 3 3 3	4					
		Rollnumber:				
5 5 5 5 5 5 5 5   6 6 6 6 6 6 6 6						
7 7 7 7 7 7 7 7 7		D: //D /				
8 8 8 8 8 8 8 8		Div./Tut.:				
9 9 9 9 9 9 9 9						
B B B B B B B						
Encode your correct choices.						
Q1. A B C	Q11.	B C D				
Q2. A B C	Q12.	B C D				
Q3. A B C Q4. A B C	Q13.	A C D				
Q4. A B C D	Q14.	A B C				
Q6. A C D	Q15.	A B D				
Q7. A B C	Q16.	A B D				
Q8. A B C —	Q17.	A B C				
Q9. A B C	Q18.	A B C				
Q10. A C D	Q19.	A B C				