

# UGEE 2021 MEMORY BASED PAPER

IIITPREP PUBLICATION

## UGEE 2021 Paper Pattern

PAPER	No. of Que	Time	Marking	Total Marks	Negative Marking
<b>UGEE 2021</b>	100	3 hr		150	
<b>SUPR</b>	50	1 hr	+1	50	-0
<b>REAP</b>	50	2 hr	+2	100	-0.5

TIME : 3 HRS

TOTAL MARKS : 150

**Q-1)** How many points are possible in the 3D plane that satisfy the given three statements?

- $x=2$
  - $xi + yj + zk = 5$
  - $y = mz + c$ , where m and c are constants
- a) 0  
 b) 1  
 c) 2  
 d) 3  
 e) None of the above

**Q-2)** A line is passing through two points in the x-y plane whose coordinates are given as (1,2) and (2,1). Find the angle of inclination the line makes with the positive direction of the x axis?

- a)  $\frac{\pi}{4}$   
 b)  $\frac{3\pi}{4}$   
 c)  $\frac{7\pi}{4}$   
 d)  $\frac{9\pi}{4}$   
 e) None of the above

**Q-3)**  $\lim_{x \rightarrow \infty} \frac{x^2+x-1}{x^2-2x+3}$  is equal to which of the following?

- a) 0  
 b)  $+\infty$   
 c)  $-\infty$   
 d) 1  
 e) none of the above

**Q-4)** Which of the following given functions is not a one-one function? (where 'n' belongs to natural numbers 'N').

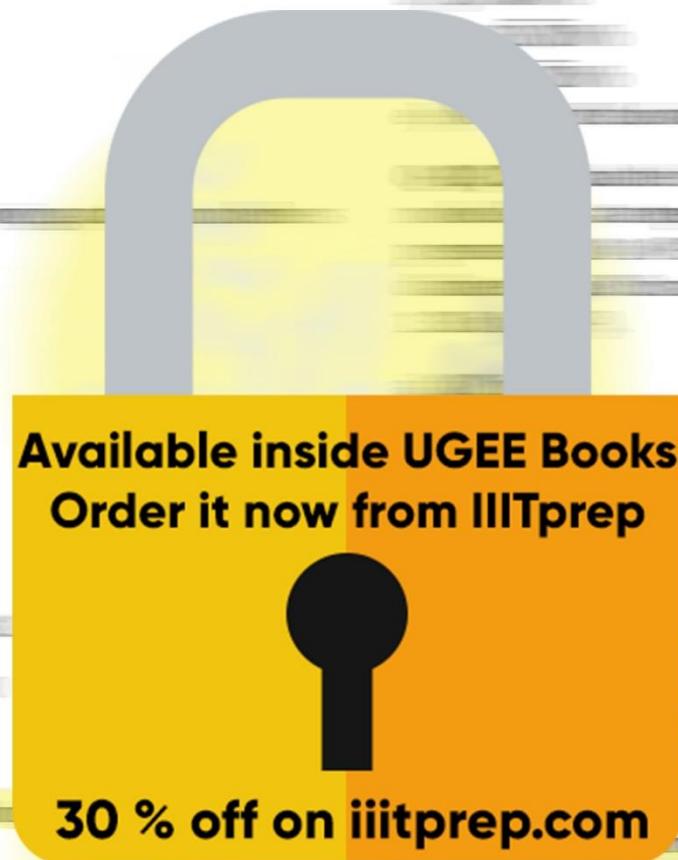
- a)  $f(x) = (\sqrt{n})(\sqrt{n})$   
 b)  $f(x) = n-1$   
 c)  $f(x) = 2^n$   
 d)  $f(x) = n^n$   
 e)  $f(x) = n-3$ , if 'n' is odd  
 $f(x)=0$ , if 'n' is even

**Q-5)** If 'q' is a charge of magnitude  $10^{-6}$  C, which is placed at the origin (0,0), respectively. Find the potential difference between the points (3,0) and  $(\sqrt{3}, \sqrt{3})$  within the x-y plane due to the charge.

- a) 6  
 b) 4.5  
 c) 4  
 d) 9  
 e) None of the above

**Q-6)** A bag contains 17 balls of 4 different colours. There exists minimum of 2 balls of a particular colour in the bag. Bag contains maximum number of green balls and the number of balls of any two colours aren't the same. If we randomly pick 11 balls from the bag such that there should be at least two balls of the same colour and the remaining balls of another colour. Then the probability of having at least one green ball among those 11 balls picked from the bag is?

- a) 12  
 b) 11



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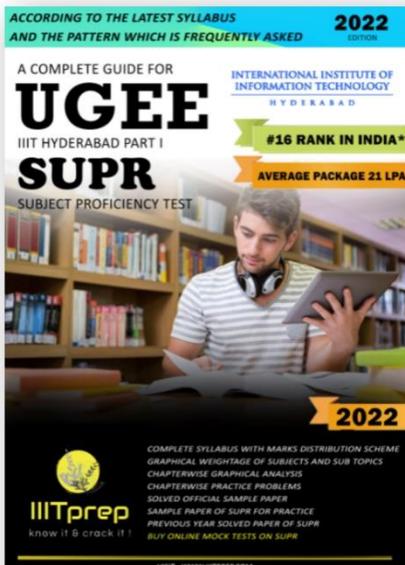
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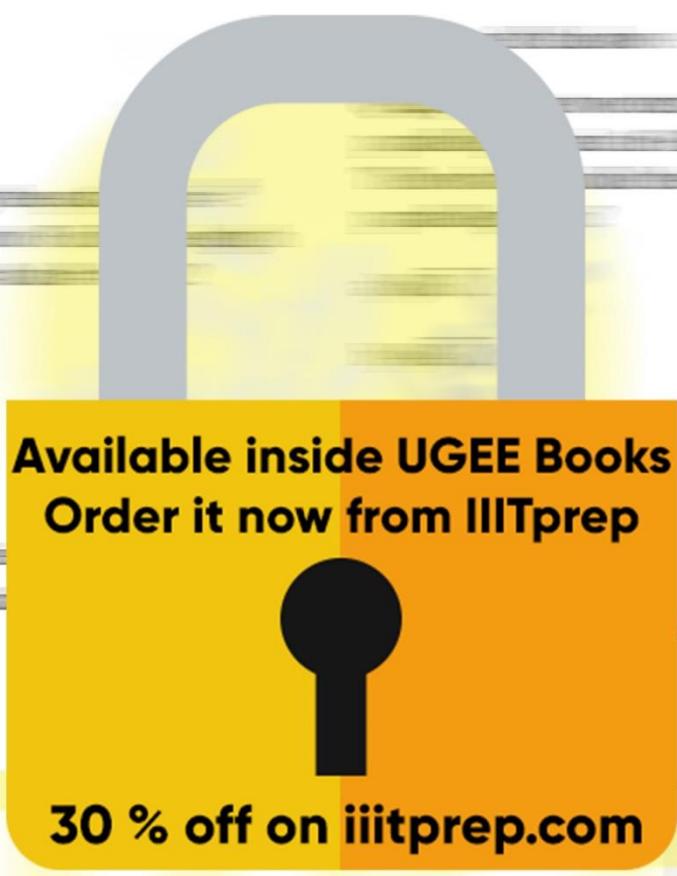
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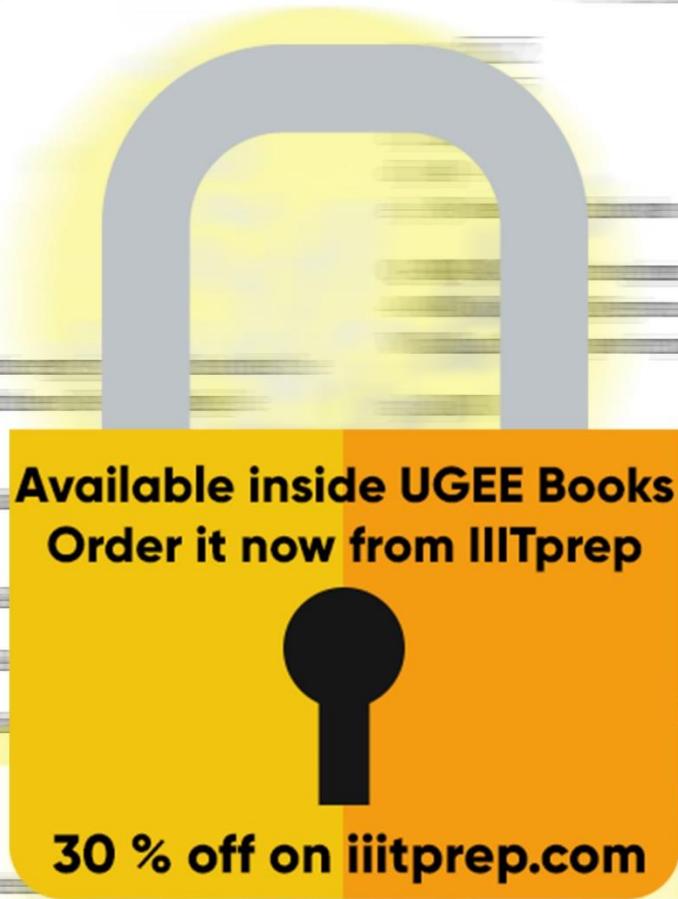
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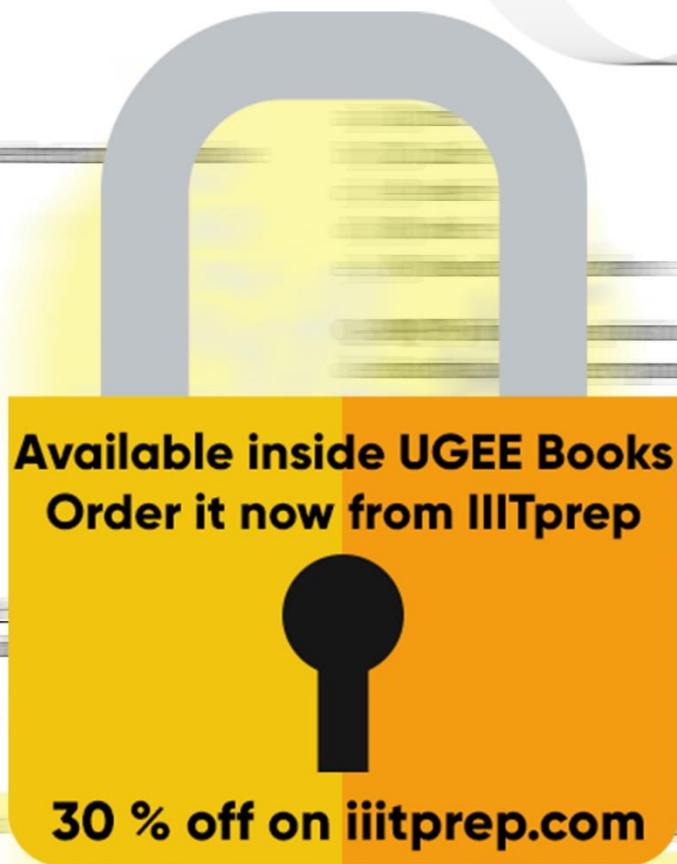
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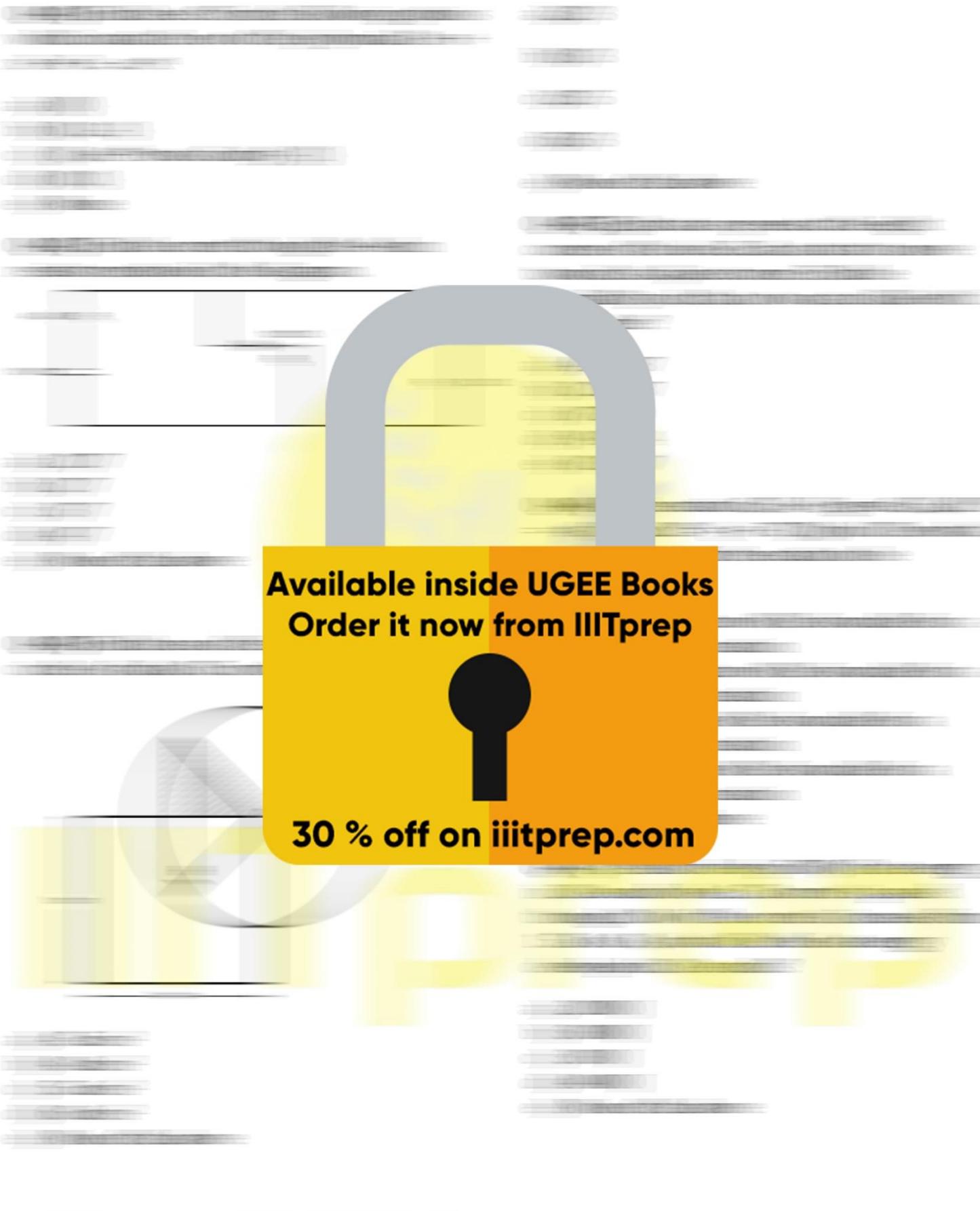
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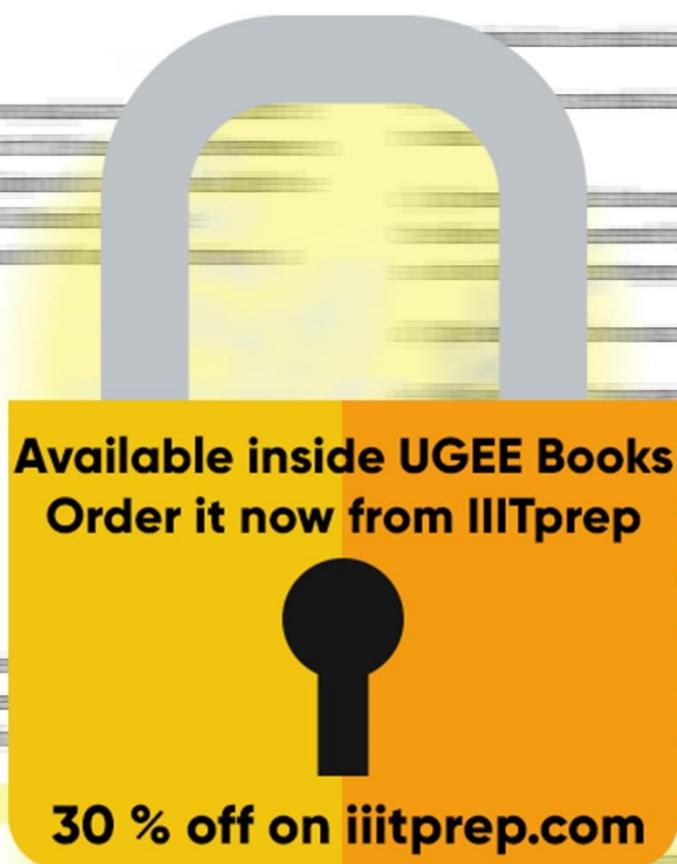
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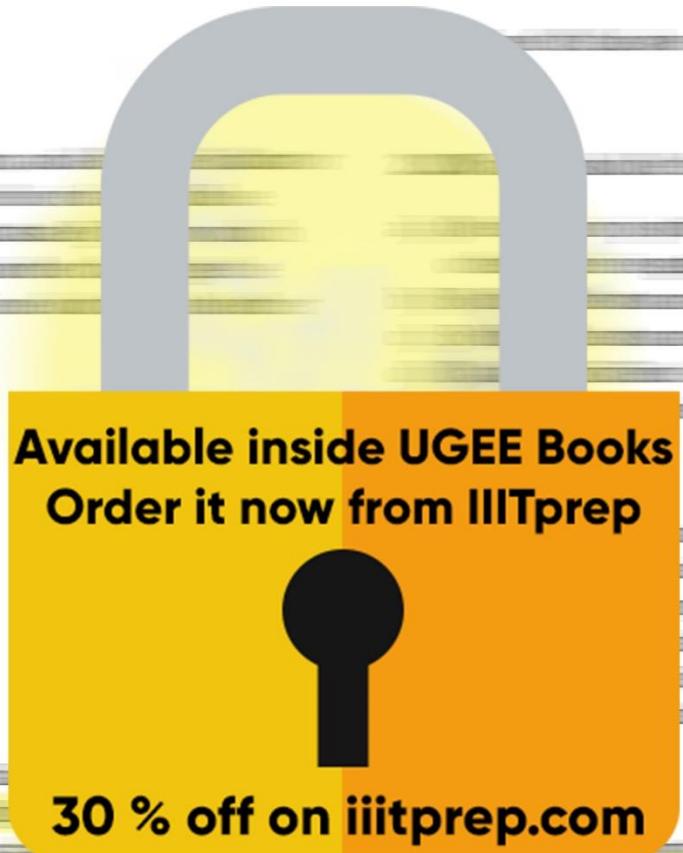


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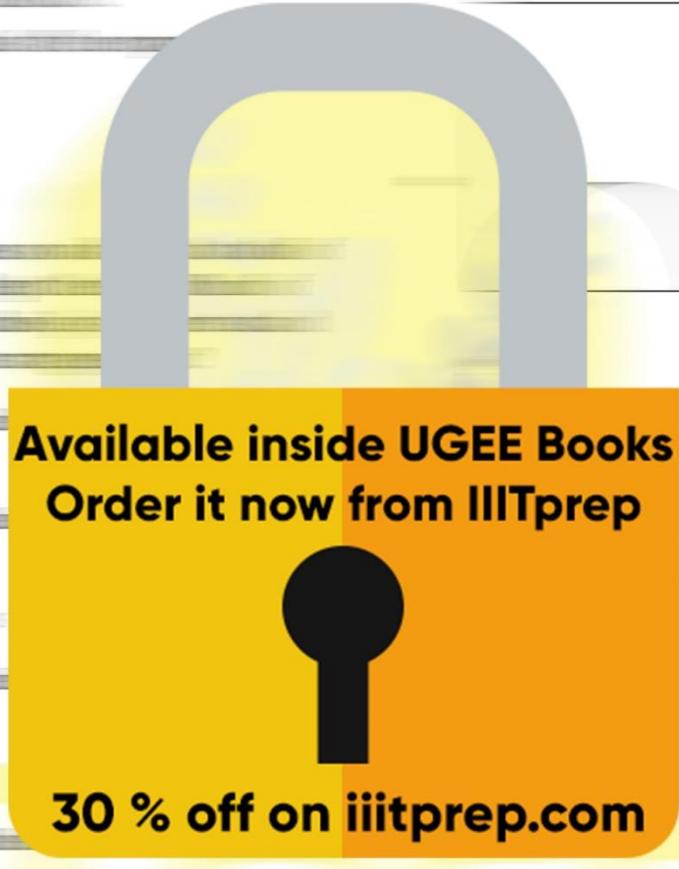




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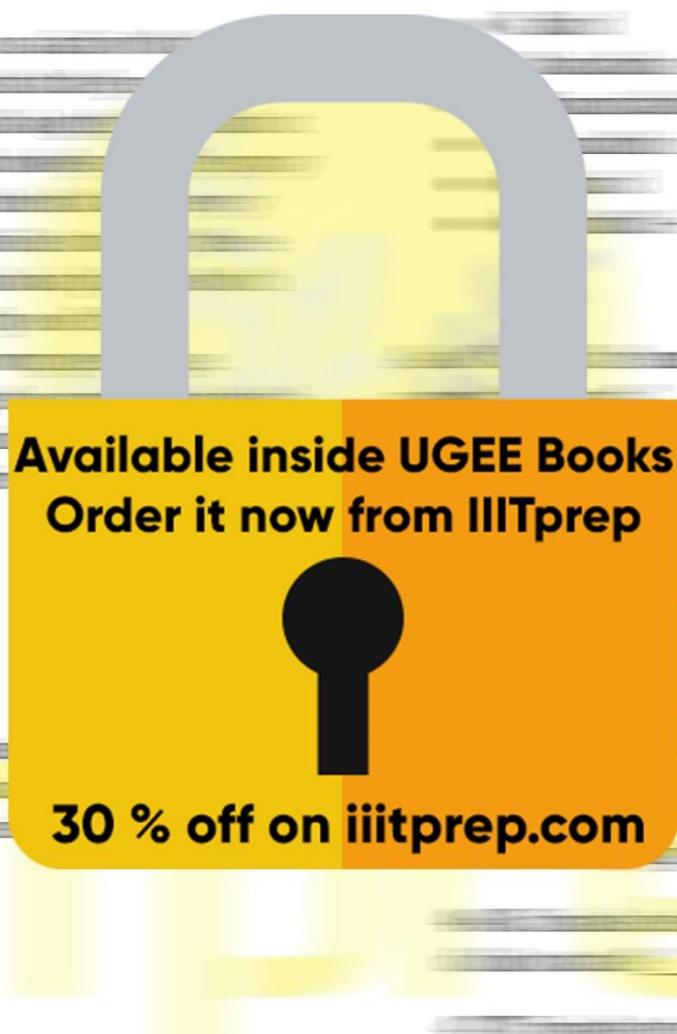
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# IIITPREP UGEE 2021 PAPER ANSWER KEY

## Answers of UGEE 2021 SUPR

1	C	11	B	21	-	31	B	41	C
2	B	12	A	22	E	32	A	42	A
3	D	13	E	23	A	33	A	43	E
4	E	14	A	24	D, A	34	C	44	A
5	E	15	E	25	A	35	D	45	B
6	-	16	Faulty question	26	B	36	E	46	A
7	B	17	B	27	A	37	A	47	A
8	D	18	A	28	B	38	B	48	A
9	B	19	-	29	E	39	A		
10	A	20	E	30	E	40	B		

## Answers of UGEE 2021 REAP

1	1	11	C	21	C	31	E	41	Self
2	4	12	B	22	B	32	B	42	-
3	C	13	SFAWOB	23	B	33	D	43	Am
4	D	14	W & J	24	E	34	E	44	And
5	D	15	Japan	25	B	35	C	45	Namixaridid
6	-	16	-	26	Sol	36	Insufficient data	46	Nachesidi
7	-	17	C	27	A	37	-	47	Namicesidid
8	E	18		28	E	38	C	48	Michesidim
9	A	19	A	29	A	39	B	49	Nachesidam
10	A	20	A	30	A	40	D		

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