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Roll No. 1 3 10/1/1 2 2019			GWL	
Mathema	atics	(INTER PART-I)	319-(IV) GROUI	
' Time: 30	Minutes	Code: 6198 OBJECTIV	The set of	Marks: 20
Note:	is correct, fill that circl or filling two or more given in objective type	e in front of that question circles will result in zero r question paper and leave	number. Use marker or pe nark in that question. Atter	The choice which you think n to fill the circles. Cutting mpt as many questions as
1- 1-	$(x-1)^2 = x^2 - 2x$			(D) understand
	(A) equation	(B) inequality	(C) identity	(D) polynomial
2-		be root of unity then ω		
	(A) 1	(B) zero	(C) ω	$(D) - \omega$
3-	$^{n-1}C_r + {^{n-1}C_{r-1}}$ equals			
	(A) <sup>n+1</sup> C <sub>r</sub>	(B) <sup>n+1</sup> C <sub>r+1</sub>	(C) <sup>n</sup> C <sub>r</sub>	(D) <sup>n-1</sup> C <sub>r</sub>
4-	If $\tan \theta = \frac{1}{\sqrt{3}}$ as	nd $\theta$ is in III quadrant	then $\cot \theta$ equals	
	(A) √3	(B) $\frac{1}{\sqrt{3}}$	(C) $\frac{1}{2}$	(D) $-\frac{1}{2}$
5-	$\sin(\cos^{-1}\frac{1}{2})$ equ	als		
	(A) $\frac{\sqrt{3}}{2}$	(B) $\frac{1}{2}$	(C) $\frac{-\sqrt{3}}{2}$	(D) $\frac{-1}{2}$
6-	Additive inverse of $a \in \mathcal{T}_R$ is			
	(A) 2	(B) 1	(C) $\frac{1}{a}$	(D) –a
7-	Period of cosec 1	Ox is	u	
	(A) $\frac{\pi}{10}$	(B) $\frac{2\pi}{5}$	(C) $\frac{\pi}{5}$	(D) $\frac{4\pi}{5}$
8-	The middle term in expansion of $(a + x)^n$ when n is even is			
	(A) $\left(\frac{n}{2}+1\right)$ th to	erm (B) $\left(\frac{n}{2}-1\right)$ th t	erm (C) $\left(\frac{n}{2}\right)$ th term	(D) $\left(\frac{n+1}{2}\right)$ th term
9-	With usual notation	ons, radius r of inscrib	ed circle is given by	
	(A) $\frac{\Delta}{s}$	(B) $\frac{s}{\Delta}$	(C) $\frac{\Delta}{s-c}$	(D) $\frac{4\Delta}{abc}$
10-	$\cos 315^{\circ}$ equals			
	(A) tan (-45°)	(B) $\tan 45^\circ$	(C) $\sin 45^{\circ}$	(D) cosec $45^{\circ}$
11-	A reciprocal equation remains unchanged when variable x is replaced by			
	(A) $-\frac{1}{x}$	(B) $\frac{1}{x}$	(C) $\frac{1}{x^2}$	(D) –x
	Δ	А	X	(Turn over)

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(Turn over)

PAPER: I Marks: 80

**GROUP: II** 

(INTER PART-I) 319

## 2.

Mathematics

Expand  $(1+x)^3$  upto 4-terms, taking the values of x such that the expansion is valid. xii-