## DPP-12 Periodic Functions

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1.	The pe	eriod of sin <sup>4</sup> x + co	os <sup>4</sup> x is –									
	(A)	$\pi$	(B) π/2		(C)	$2\pi$		(D)	None of these			
2.	The pe	eriod of function	cos 2x  is -									
	(A)	π	<b>(B)</b> π/2	!	(C)	$4\pi$		(D)	$2\pi$ .			
3.	The pe	eriod of function	$\sin\left(\frac{\pi x}{x}\right)_{+}$	cos πλ	is-							
	(A)		(B) 6	( 2		12		(D)	24			
4.		eriod of the functi						(2)				
4.		$\pi/2$	(B) π	3 COS 2X	(C)	_		(D)	$2\pi/5$ .			
				. 1	, .							
5.	The pe	eriod of the functi	on $f(x) =$	$2\cos\frac{\pi}{3}$	$(x-\pi)$ is-							
	(A)	$6\pi$	(B) 4π		(C)	$2\pi$		(D)	$\pi$ .			
6.	In the	In the following which function is not periodic-										
	(A)	tan 4 x	(B) cos 2	$2\pi x$	(C)	cos	$\chi^2$	(D)	$\cos^2 x$ .			
7.	The pe	eriod of  sin 2x  is-										
	(A)	$\pi/4$	(B) π/2	!	(C)	$\pi$		(D)	$2\pi$ .			
8.	The pe	eriod of $f(x) = \frac{1}{x}$	$\frac{\sin x}{\sin x} - \cos \frac{\sin x}{\sin x}$	x is-								
	(A)	$\pi/2$	(B) π		(C)	$2\pi$		(D)	None of these			
9.	Period of function $2^{\{x\}} + \sin \pi x + 3^{\{x/2\}} + \cos 2\pi x$ is (where $\{\}$ represent fractional part of x)											
	(A)		(B) 1		(C)		., .		) None of these			
10.	Period	of the function	$f(x) =  \sin x $	$ \pi x  + e$	<sup>3(x-[x])</sup> (whe	re[]	represent G	.I.F.) i	s -			
	(A)		(B) 2			1/3			) None of these			
11.	. ,		. ,	π[v]w					nd fractional part of:			
11.	(A)		(B) 2	" [x] W	(C)		cpresent or e		)) $\pi$ .			
								(1	,,			
12.	If pen	$\frac{\cos(\sin n)}{\tan(x/n)}$	$(n \in N)$	is 6π th	en n is equ	al to	-					
	(A)	4	(B) 2		(C)	6		(I	)) 1			
13.	The p	eriod of f(x) = co	s (sin x) + c	os (cos z	x) is -							
	(A)		(B) π/			$\pi$		(I	$\pi/2$ .			
14.	The v	alue of $n \in I$ for t	which the fi	ınction	$f(x) = \frac{s}{\sin x}$	$\frac{\ln nx}{\ln \left(\frac{x}{n}\right)}$	has $4\pi$ as	its pe	riod is-			
	(A)		(B) 3		(C)				)) 5			
15.	If f(x)	is an odd period	ic function	with ner	riod 2, then	f(4)	equals to-					
	(A)	-	(B) 2		(C)			(I	0) -4			
1.		2.	3.	4			5.					
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6.		7.	8.	9	).		10.					
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