PHY Time	SIC: 20	Minutes O		Code: 6471	Paper- I Group-I Marks: 17
Note:	fill t	hat circle in front of that	question number. Use man rk in that question. Atter	ker or pen to fill the circles.	ce which you think is correct, Cutting or filling two or more iven in objective type question
1.	1.	Which of the following			2
		(A) $f = V\lambda$	(B) $f = \frac{V}{\lambda}$	(C) $f = \frac{1}{V\lambda}$	(D) $f = \frac{\lambda}{V}$
	2.	The SI unit of co-effic (A) kg m s	ient of viscosity is (B) kg m ⁻¹ s	(C) kg m ⁻¹ s ⁻¹	(D) kg m s ⁻¹
	3.	$\overline{A} \times \overline{A} =$ (A) $2\overline{A}$	(B) A^2	V(C) 0	(D) 0
	4.	The direction of a vector of the vector makes with (A) positive x-axis in (B) positive x-axis in (C) negative x-axis in (D) negative x-axis in	or in a plane is denoted to the anti-clock wise direction the clock wise direction the anti-clock wise direction the clock wise direction	ction 1	
	5.	If mass m of the water (A) $F = \frac{mv}{t}$	4	(c) $F = \frac{vt}{m}$	(D) $F = \frac{m}{vt}$
	6.	A typical rocket consu	mes fuel about	m (C) 10000 kg s ⁻¹	
	7.	(A) 100 kg s ⁻¹ The value of escape ve	(B) 1000 kg s ⁻¹ elocity is maximum for (B) Earth	(C) Jupiter	(D) Mercury//
	8.	(A) Moon The moment of inertia	for a cylinder is		
		(A) mr ²	$\sqrt{(B)} \frac{1}{2} mr^2$	(C) $\frac{2}{5}$ mr ²	$(D) \frac{1}{12} \text{mr}^2$
	9.		(B) $K.E_{rot} = \frac{1}{2}mv$	(C) K.E _{rot} = $\frac{1}{4}$ mv ²	(D) $K.E_{rot} = 2 \text{ mv}^2$
	10.	(A) viscous	ion is for a fluid which is (B) compressible	(C) inturbulent flow	(D) in steady flow
	11.	In a microwave oven,	the waves produced hav (B) 12 cm	e a wavelength of (C) 14 cm	(D) 16 cm
	12.	of the two sounds is n	recognize the beats if th	e difference between the fi	requencies (D) 10 Hz
	13.	WA) 30 Hz	four segments at a freque (B) 60 Hz	ency of 120 Hz, its fundam (C) 120 Hz	
	14.	(A) $\frac{\lambda L}{d}$	two adjacent dark fringe (B) $\frac{\lambda d}{L}$	(C) $\frac{dL}{\lambda}$	(D) $\frac{d}{L\lambda}$
	15.	The equation used to $(A) c = 8fd$	determine the speed of l (B) $c = 16 fd$	ight by Michelson is $(C) c = \frac{8}{fd}$	(D) $c = \frac{16}{fd}$
	16.	By kinetic theory of g	gases, the gas molecules	are in	(D) linear motion
		(A) angular motion	(B) circular motio	work by a petrol engine is	. ,
	17.	(A) 10%	(B) 15%	(C) 20%	(D) 25% 214-(I)-321-45000