

Arts, Commerce & Science College, Sonai.

Department of -- Physics-----

		Academic Year: 2019 - 20	
ACA- R-17		Semest-1	
Date: 15.06.2019	Internal Assessment Test - 1	Semest-1	
Class: F.Y.Bsc	internal Assessment Test - 1	Date Time:	
Sub: Mechanics &		Max. Marks: 20 marks	
Properties of matter			

.Q.1. State weather the following statement is true or false. (02)

1). Newton's second law is known as law of inertia

Ans:

2. When an object is at rest or constant velocity in inertial frame of reference, then sum of all forces acting on it must be zero.

Ans:

3. Gravitational force is non-conservative.

Ans:

4. The motion of water in high fall is an example of turbulent flow.

Ans:

5. With rise in temperature, surface tension increases.

Ans:

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Q.2. Choose the correct alternative for the following Questions. (05)

1. Swimming is possible on accour	nt of	
a) First law of motion	b) Second law of motion	
c) Third law of motion 2. Which of the following pair of ph	d) Newton's law of gravitation. sysical quantity has same dimension? -	
a) Work and energy	b) Force and Work	
c) Work and Power	d) none of them.	
3. What is unit of energy in SI uni	t?	
a) Joule	b) Erg	
c) Watt	d) Newton	
4. The equation of continuity for a liquid may be written as		
a) $A_1V_1 = A_2V_2$	b) $A_1P_1 = A_2P_2$	
c) $P_1 V_1 = P_2 V_2$	$\mathbf{d}) \beta_1 \subset {}_1 = \beta_2 C_2$	
5. Surface tension depends on	·····	
a) Contamination of liquid s	surface b) Presence of impurity in liquid	
c) Temperature	d) All of these	



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Q.3.	Attempt all of the following. (05)
1.]	Define angle of contact.
2.]	Define viscosity.
3 1	What do you mean by streamline flow?
٦,	what do you mean by streamme now:
4.	Define kinetic energy of a body. Give its SI unit.
5.	State Newton's second law of motion.



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Q.4.	Attempt all of the following.	(05)
1.	What is surface tension? And give its unit.	
2.	State Bernoulli's principle.	
3.	State work – Energy Theorem.	
4.	State law of conservation of energy.	
5.	Can action and reaction forces cancel each other?	



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			Academic Year: 2019 - 20	
ACA- R-17	Internal Assessment Test - 1			
Date: 15.06.2019			Semest-1	
Class: F.Y.Bsc	internal Assessmen	t lest - 1	Date:16/10/2019 Time:8:30	to 9:30
Sub: Mechanics &			Max. Marks: 10 marks	
Properties of matter				
Q.1. State weath	er the following sta	tement is t	rue or false.	(02)
1). Newton's se	cond law is known as la	aw of inertia		
2. When an obje	ect is at rest or constant	velocity in in	nertial frame of	
reference, th	nen sum of all forces act	ting on it mus	st be zero.	
Q.2. Choose the	correct alternative	for the foll	lowing Questions.	(02)
1. What is unit	of energy in SI unit?			
a) Joule	b) Erg	c) Watt	d) Newton	
2. The equation	of continuity for a liqu	id may be wr	ritten as	
a) $A_1V_1 = A_1$	A_2V_2 b) A1P1 = A_2P_2	c) $P_1 V_1 =$	$= P_2 V_2 \qquad \mathbf{d}) \beta_1 C_1 = \beta_2 C_2$	
Q.3. Write a	nswers in one or tw	o sentence	•	(03)
1. Define angl	e of contact.			
2. Define visc	osity.			
3. What do yo	ou mean by streamline f	low?		
. Q.4 Attempt a	all of the following.			(03)
1 surface tens	sion			
2. Conservativ	e force.			
3. Elasticity				

मुळी एज्युकेशन सोसायही

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	Internal Assessment Test - 1	Academic Year: 2019 - 2	0
ACA- R-17		Semest-II	
Date: 15.06.2019		Data : 4/2/2020 Times 9	Date: 4/3/2020 Time: 8 to8:45
Class: F.Y.Bsc Sub: Heat &		Max. Marks: 10 marks	108:45
Thermodynamics		iviax. Iviaiks. 10 iliaiks	
Q.1. State weath	ner the following statement	is true or false.	(02)
1). Internal ene	rgy of thermodynamic system is	not path function but it is po	int function
A no			
Ans _			
2. If the door or	f a refrigerator is kept open in the	hall, the temperature of the	hall decrease
A ma			
Ans _			
Q.2. Choose the	correct alternative for the	following Questions.	(02)
1. A heat engin	e is a device which converts heat	energy into	
a) Mechan	ical energy	b) Electrically energy	
c) Sound er	nergy	d) Chemical energy	
2. When water	vapour condenses into water, its	entropy	
a) Increase	es	b) Decreases	
c) Remains	s unchanged	d) None of these	
Q.3. Write a	nnswers in one or two senter	ice.	(03)
1. State zeroth	a law of thermodynamics.		
Ans:			



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(03)