Class: 9th Sub: Physics Worksheet no: 1

## **Multiple Choice Questions**

Q1.Force can change	

L.Force can change
a) Velocity of a body b) Direction of a velocity
c) Magnitude of a velocity d) All the above
Q2. SI unit of force is
<ul><li>a) Newton</li><li>b) Dyne</li><li>c) Joule</li><li>d) N-m</li></ul>
Q3.Rate of change of Momentum is known as
a)Work b) Force
c) Impulse d) Energy
Q4.Momentum of a body increases from 20kgm/s to 40kgm/s in 5 seconds, then the force applied is
A) 4 N b)-4 N
c)12 N d) -12 N
Q5.If no external force acts on a body, then the quantity which remains conserved is
A) Momentum b)Work
c) Energy d) Mass
Q6.When a bullet is fired from a gun, it recoils .This is due to
a) Conservation of Energy
b) Mass
c) Momentum
D) None

Q7.When a body slides over the other body, then friction between them is known as
<ul><li>a) Limiting friction</li><li>b) Rolling friction</li><li>c) Sliding friction</li><li>d) Static friction</li></ul>
Q8. The friction in the case of bodies that moves rollers is known as
<ul><li>a) Rolling friction</li><li>b) Sliding friction</li><li>b) Static friction</li><li>d) Limiting friction</li></ul>
Q9. Which of the following measures are taken to reduces friction
<ul><li>a) Polishing</li><li>b) Streamlining</li><li>c) Using ball bearing</li><li>d) All the above</li></ul>
Q10.Which is not a unit of pressure
a) Pascal b) Atmosphere b) Bar d) Newton
Q11. A mug filled with water appears to be lighter when lifted inside water, due to
a) Conservation of Momentum b) Archimedes principle c) Newton's law d) None
Q12. A block of relative density 5 is put in a liquid of density 2000kg/ms³, it will
a) Sink b) Float c) Cannot say d) Insufficient data
Q13. Velocity of a particle increases from 10m/s to 15m/s after travelling a distance of 5m its acceleration is
a) 12.5m/s <sup>2</sup> b) 125 m/s <sup>2</sup> c) 1.25m/s <sup>2</sup> d) 0.1m/s <sup>2</sup>
Q14.A particle is moving in a circular path of radius r the displacement after half a circle would be
a) Zero b) 2r c) 2πr d) π
Q15. In uniform circular motion velocity of particle is
a) Constant b) Variable in magnitude c) Variable in direction d) Both

	a)	Displac	ement	b) Acce	eleration	(	c) Time	d)	Velocity	
	Q1	7. Suppo	ose you push a	wall then	reaction	n force to	this fo	ce is		
	a)	The for	ce applied by t	the wall	b) Wei	ght of the	wall	c) Weight	of your body	d) None
	Q1	8. A part	ticle travels 100	0 meters a	after sta	rting from	rest ir	10 second	ls. Its accelera	tion is
	a)	2m/s <sup>2</sup>	b) 4m/s <sup>2</sup>	c) 1m/s	s²d) 20m	ı/s²				
	Q1	8. A part	ticle travels wit	th the spe	ed of 18	km/h its s	speed i	s m/s		
	a)	5m/s	b) 50m/s	c) 64.8	m/s	d) 6.48m	n/s			
	Q1	9. Displa	acement-time g	graph of a	uniform	nly acceler	ated m	otion is		
	a)	Parabo	la	b) Strai	ight line	(	c) An ir	clined line	d) None	9
	Q20	0. A bod	ly is thrown vei	rtically up	ward wi	th velocity	y U₁ the	e greatest h	neight to whic	h it will rise
	a)	U/g	b) U <sup>2</sup> /2g	c) U <sup>2</sup> /g		d) U/2g				
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Q16. Area under velocity – time gives

observe is that:

A) Iron fillings start melting b)Sulphur starts melting				
c)Mixture becomes red hot d) Mixture evaporate				
Q5.Flame should not be brought near carbon disulphide while working with it because carbon disulphide:				
A) Is supporter of combustion b)Dissolve sulphur				
c) is highly inflammable d) is highly non-inflammable.				
Q6.The correct observation when you mix barium chloride solution with sodium sulphate solution is that:				
a)A white precipitate is formed after some time.				
b) A yellow precipitate is formed after some time.				
c) A white precipitate is formed instantaneously.				
D) Ayellow precipitate is formed instantaneously.				
Q7. The property of flow is unique to fluids which one of the following is correct?				
<ul><li>e) Only gases behave like fluids.</li><li>f) Gases solids behave like fluids</li><li>g) Gas and liquids behave like fluids.</li><li>h) Only liquids are fluids.</li></ul>				
Q8.Large amount of a gas can be put into a small metallic cylinder due to the property of gas known as:				
b) Evaporation b) compressibility d) Sublimation d) Solidification				
Q9.Gases can best be liquefied by:				
<ul> <li>e) Increasing pressure</li> <li>f) Decreasing temperature</li> <li>g) Increasing pressure and decreasing temperature</li> <li>h) Decreasing pressure</li> </ul>				
Q10. The quantity of heat (in joules) required to convert one kilogram of a liquid at its boiling point at an atmospheric pressure is called:				
c) Specific heat b) Heat capacity d) Latent heat of melting d) Latent heat of vaporization				
Q11. Which of the following is not a compound				
b) Sugar b) Sand c) Glucose d) Silica				

b)	Blood b) Dust	c) Sea water	d) Tincture of	lodine	
Q1	Q13. The light is On passing light through a colloidal solution.				
b)	Absorbed	b) Reflected	c) Ink d) soil		
Q1	4.Which of the f	ollowing is a hor	nogeneous mix	ture?	
b)	Soda water	b) Milk c) Ink	d) Soil		
Q1	5. Sulphur is solu	uble in:			
b)	Water	b) Ethanol	c) carbon disul	lphide d) E	Benzene
Q1	6. Which of the	following is subli	imate?		
b)	Iodine	b) Oxalic acid	c) Wax	d) Sand	
Q1	7. Which of the	following is not h	neterogeneous	mixture?	
b)	Soil b) Bloo	d c) Dirt	d) Saline wat	er	
Q1	8. Which gas is p	present in aerate	d soft drinks?		
b)	Nitrogen	b) Carbon dioxi	ide c) Carl	oon monoxide d) H	lydrogen
Q1	8.Which of the f	ollowing is not N	Лetalloid?		
b)	Boron	b) Silicon	c) Copper	d) Germanium	
Q1	9. Which of the	following is an E	mulsion?		
b)	Butter	b) Milk	c) Curd	d) Smoke	
Q20. In a foam, which of the following is a dispersed phase?					
b)	Solid b) Liqu	id c) Gas	d) noi	ne of these	
Q2	Q21. Which of the following is not a gel?				
a)	Butter	b) Cheese	c) Curd	d) Ink	
Q22. Which of the following is a binary Mixture?					
a)	Air	b)Soft Drinks	c) Stee	el d) Saline So	lution
Q23. Alloy is a mixture of:					
a)	Solid and Liquid	d b) Liqui	id and Solid	c) Solid and Solid	d ) Liquid and gas

Q12. Which of the following is an example of colloidal solution?

	Q24. Which of the following is most malleable Metal?					
	a)	Gold	b) Silver	c)Aluminu	m	d)Copper
	Q2!	5. Amalgam is a	algam is a mixture of a metal and:			
	a)	Water	b) Alcohol	c)	Mercury	d) Benzene
		Worksh	neet for	class 9	th Biolo	ogy
Q1	. To	prepare a tempo	orary mount o	of onion peel,	which of the	e following stain is used?
	(a)	Safranin	(b) N	/lethylene blu	e	
	(c)	Iodine	(d) N	lone of the ab	ove	
Q2	. Cel	ls are focused in	microscope f	irst in:		
	(a)	100X	(b) 4	0X		
	(C)	10X	(D) N	lone of the ab	ove	
Q3	. Wh	ile observing a r	nount of onio	n peel under	a microscop	e, cytoplasm is seen:
	(a)	Inside the nucle	eus (b)In	side the cell v	vall but outs	side nucleus
	(c)	outside the cell	wall (d) n	ot seen at all		
Q4	. The	e plant cell exclu	ding cell wall	is known as:		
	(a)	Protoplasm	(b) P	rotoplast		
	(c)	Cytoplasm	(d) N	lone of the ab	ove	
Q5	Q5. The membrane surrounding the vacuole of a plant cell is called:					
	(a)	Plasma membra	ane (b) c	ell wall		
	(c)	Tonoplast	(d) n	uclear memb	rane	
Q6	. Wh	en a cell is mou	nted in glycer	in:		
	(a)	Endosmosis tak	es place (b) e	xosmosis take	es place	
	(c)	Neither exosmo	sis nor endos	mosis takes p	lace	
	(d)	None of the abo	ove			
Q7	. Giv	en blow are fou	r operations f	or preparing a	temporary	mount of human cheek cells:

(i) Taking scraping from inner side of the cheek and spreading it on a clean slide.					
(ii) Putting a drop of glycerin on the material.					
(iii) Adding two or three drops of methylen	(iii) Adding two or three drops of methylene blue				
(iv) Rinsing the mount with fresh water and	l disinfectant solution.				
The correct common to both plant and animal c	cells are :				
(a) i – ii – iii – iv	(b) iv – i – iii – ii				
(c) iv – I – ii – iii	(d) i – iii – ii – iv				
Q8. Which one of the following cell constituents cell?	s cannot be seen while observing a human cheek				
(a) Nucleus	(b) cell wall				
(c) Cytoplasm	(d) none of the above				
Q9. Which of the following statement is false?					
(a) Definite shape of cell is seen in animals.	(b) Plant cell have cell wall.				
(c) Definite shape of cell wall.	(d) Animal cell do not have cell wall.				
Q10. Cheek cells:					
(a) Have large intercellular space	(b) no inters cellular space				
(c) Lignified space	(d) space filled with pectin.				
Q11. Amoeba acquires its food through a proce	ss, termed as				
(a) Exocytosis	(b) endocytosis				
(c) Plasmolysis	(d) exocytosis and endocytosis				
Q12. A cell wall swells up if:					
(a) The concentration of water molecule in the cell is higher than the constration of water molecules in surrounding medium.					
(b) The concentration of water molecules in surrounding medium is higher than water molecule concentration in the cell.					
(c) The concentration of water molecule is s	ame in the cell and in the surrounding medium.				
(d) Concentration of water molecule does n	ot matter.				
Q13. Which of the following are covered by a single membrane?					
(a) Mitochondria	(b) vacuole				

(c) Lysosome	(d) plastids	
Q14. Starch solution gives blue colour with iodine solution. What will happen if the blue colour starch solution is boiled?		
(a) Blue colour disappears	(b) a brick red colour appears	
(c) No change	(d) blue colour becomes dark.	
Q15. Which food sample you will select to test	the presence of starch:	
(a) Grape	(b) coconut	
(c) Gram seed	(d) potato	
Q16. lodine gives blue black colour with:		
(a) Protein	(b) oil	
(c) Starch	(d) sucrose	
Q17. Metanil yellow, an adulterant used in arh	ar dal is basically	
(a) An acid	(b) a detergent	
(c) A die	(d) none of the above	
Q18. Cover slip should be gently placed on the	slide to avoid:	
(a) Crushing of the material	(b) entry of air bubbles	
(c) Avoid oozing of stain	(d) breaking, as it is made of glass.	
Q19. Adulterant arhar dal is plain yellow in colo	our due to	
(a) Turmeric	(b) sulphur powder	
(c) Metanil yellow	(d) chrome yellow.	
Q20. Some characteristics of onion peel cells a	re:	
(a) Cell wall is present	(b) only one nucleus present	
(c) Intercellular spaces are not there	(d) all of the above.	