

## ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class	: 8	Subject : PHYSICAL SCIENCE	Term : FIRST TERM	Max Marks : 60
Q1:	The turning effect	of force about a fixed point ,	is called moment of force.	Marks: 1
	<b>1</b> Pivot		(This Answer is Correc	t )
	2. fulcrum		_	
	3. effort			
	4. load			
Q 2 :	Mathematical rep	resentation of moment of force is g	iven by	Marks: 1
	1 . F/A			
	2 . F-d			
	<b>3</b> . FXd		(This Answer is Correc	t)
	4 . F/d			
Q 3 :	The S.I. unit of pre	essure is		Marks: 1
	1 . Nm			
	<b>2.</b> Pa		(This Answer is Correc	t)
	3 . Newton		<del></del>	
	4. Nm/sec			
Q4:	The pressure will	If the force applied on a la	ge area.	Marks: 1
	1. increase			
	2. equal			
	3. decrease		(This Answer is Correc	t )
	4 . none of these		<del>_</del>	
Q 5 :	Scissors have sha	arp edges to reduce the surface are	ea so the pressure exerted	Marks: 1
•	1. equal to force a	pplied		
	2 increases		(This Answer is Correc	t )
	3. decreases			
	4 . none of these			

Q6:	The factors which affect lateral pressure is/are-		Marks :	1
	1. increase in depth			
	2. density of liquid			
	3. type of liquid			
	4 . all of these	( This Answer is Correct )		
Q7:	Lorries have big wheels to Pressure on the ground.		Marks :	1
	1 . reduce	(This Answer is Correct)		
	2 . increase			
	3. equalise			
	4 . none of these			
Q8:	The working of a fountain pen is possible because of-		Marks :	1
	1 . Capillary action			
	2 . atmospheric pressure	( This Answer is Correct )		
	3 . lateral pressure			
	4 . hydrostatic pressure			
Q9:	Work is said to be done only when		Marks :	1
	1. force acts on the object			
	2 . the object moves in the direction of force			
	3 . the object may change in the direction of application of force			
	4 . all of these	( This Answer is Correct )		
Q 10 :	The kinetic energy increases with the increase in		Marks :	1
	1. only mass			
	2 . height and mass			
	3 . mass and velocity	( This Answer is Correct )		
	4. only velocity			
Q 11 :	Water stored in overhead tank possesses Energy.		Marks :	1
	1. heat			
	2. solar			
	3. kinetic			
	4. potential	( This Answer is Correct )		

Q 12 :	The energy possessed by a stationary object due to it's height	Energy.	Marks :	1
	1 . Mechanical			
	2. potential			
	3 . gravitational potential energy	( This Answer is Correct )		
	4 . elastic potential energy			
Q 13 :	A stretched bow possesses Energy.		Marks :	1
	1. kinetic			
	2 . elastic potential	(This Answer is Correct)		
	3 . gravitational potential energy	_		
	4 . static			
Q 14 :	In a photo cell light energy is converted to		Marks :	1
	1 . Electric	( This Answer is Correct )		
	2. magnetic			
	3. kinetic			
	4. potential			
Q 15 :	The speed of lighton passing through an optically denser me	edium.	Marks :	1
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Q 15 :		edium.  ( This Answer is Correct )	Marks :	1
Q 15 :	1. increase		Marks :	1
Q 15 :	1 . increase 2 . decrease		Marks :	1
Q 15 :	<ul><li>1 . increase</li><li>2 . decrease</li><li>3 . remain unchanged</li></ul>		Marks :	1
	<ul><li>1 . increase</li><li>2 . decrease</li><li>3 . remain unchanged</li><li>4 . increases 10 times</li></ul>			
	<ol> <li>increase</li> <li>decrease</li> <li>remain unchanged</li> <li>increases 10 times</li> </ol> Refactive index of diamond with respect to vaccum is			
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Q 16 :	<ol> <li>increase</li> <li>decrease</li> <li>remain unchanged</li> <li>increases 10 times</li> </ol> Refactive index of diamond with respect to vaccum is <ol> <li>1.4</li> <li>2.4</li> <li>1.8</li> <li>2</li> </ol>	( This Answer is Correct )	Marks :	1
Q 16 :	<ol> <li>increase</li> <li>decrease</li> <li>remain unchanged</li> <li>increases 10 times</li> </ol> Refactive index of diamond with respect to vaccum is <ol> <li>1.4</li> <li>2.4</li> <li>1.8</li> <li>2</li> </ol> The duration of day increases byminutes due to refraction.	( This Answer is Correct )	Marks :	1
Q 16 :	<ol> <li>increase</li> <li>decrease</li> <li>remain unchanged</li> <li>increases 10 times</li> </ol> Refactive index of diamond with respect to vaccum is <ol> <li>1.4</li> <li>2.2.4</li> <li>1.8</li> <li>2</li> </ol> The duration of day increases byminutes due to refraction. <ol> <li>2</li> </ol>	( This Answer is Correct )	Marks :	1

Q 18 :	When a ray of light passes from a denser medium to a rarer medium it bends	Marks:	1
	1 . away from normal (This Answ	wer is Correct )	
	2 . towards the normal		
	3. anywhere		
	4 . infinity		
Q 19 :	In concave mirror the principal focus is the point where the rays of light parallel to prin	ncipal axis Marks :	1
	1 . appears to meet		
	2 . pass undeflected		
	3 . appears to converge		
	4 . converge at focus (This Answ	wer is Correct )	
Q 20 :	Concave mirror is not used in the following :	Marks :	1
	1. torches		
	2. floodlights		
	3 . rear view mirrors (This Answ	wer is Correct )	
	4 . shaving mirrors		
Q 21 :	When the object is kept at the centre of curvature C then the size of image formed by is	concave mirror Marks :	1
	1. magnified		
	2. equal (This Answ	wer is Correct )	
	3 . diminished		
	4 . highly enlarged		
Q 22 :	When the object is kept between infinity and pole in front of a convex mirror the image	e formed is Marks :	1
	1. Enlarged		
	2 . highly diminished		
	3 . diminished (This Answ	wer is Correct )	
	4 . equal size		
Q 23 :	The major cause of dispersion of white light is	Marks :	1
	1. different colours		
	2. different wavelength of each colour		
	3. different speed of each colour		

(This Answer is Corr	ect)
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 $\boldsymbol{4}$  . different wavelength and speed of each colour

Q 24 :	The formula for sodium carbonate is		Marks :	1
	1 . Na2CO3	( This Answer is Correct )		
	2 . NaCO3			
	3. NaHCO3			
	4 . NaHCO2			
Q 25 :	A radicle is a kind of entity which has behaving as a single atc	om with a charge.	Marks:	1
	1 . an atom only			
	2 . group of atoms only			
	3 . both an atom or group of atom	( This Answer is Correct )		
	4. positive ions			
Q 26 :	The formula for sulphite radicle is		Marks :	1
	<b>1.</b> SO32-	( This Answer is Correct )		
	2 . SO42-			
	3 . SO32+			
	4 . SO42+			
Q 27 :	The symbol to represent a precipitate in a chemical equation is -		Marks :	1
Q 21 :			warks .	•
	1. ↑ 2	(This Answer is Correct)		
	2.↓ 3. ←	( This Allower is correct)		
	4. →			
Q 28 :	What is value of x in the following equation - $2H2 + O2 = x + H2O$		Marks :	1
	1.2	( This Answer is Correct )		
	2. 1	_		
	3. 3			
	4. 4			
Q 29 :	What is the unit of measurement of force?		Marks :	1
	1. Kgf			

2. Newton

	3 . m/sec2 4 . Both Kgf and Newton	( This Answer is Correct )		
Q 30 :	The factor/s on which turning effect of force depends:		Marks :	1
	1. weight of the object			
	2. weight of the effort			
	3 . perpendicular distance of the force from pivot	( This Answer is Correct )		
	4 . magnitude of pressure			
Q 31 :	Force acting on a unit area of a surface is called:		Marks :	1
	1 . pressure	( This Answer is Correct )		
	2 . acceleration due to gravity			
	3 . Moment of force			
	4 . Thrust			
Q 32 :	Pressure exerted by the molecules of water on the walls of the	container is called	Marks :	1
	1 . hydrostatic pressure			
	2 . air pressure			
	3 . lateral pressure	( This Answer is Correct )		
	4 . none of these			
Q 33 :	The following is the factor affecting pressure:		Marks :	1
	1 . magnitude of the force			
	2 . direction of force			
	3 . surface area in contact			
	4 all of these	( This Answer is Correct )		
Q 34 :	Atmospheric pressure is measured by using-		Marks :	1
	1. manometer			
	2 . thermometer			
	3. barometer	( This Answer is Correct )		
	4. sphaerometer	_		
Q 35 :	The perpendicular force acting on the surface is called-		Marks :	1
	1 . thrust	(This Answer is Correct)		

2. pressure

	3. jerk			
	4. work			
Q 36 :	The S.I. unit of energy is:		Marks :	1
	1. Newton			
	2. Joule	( This Answer is Correct )		
	3 . Nm			
	4. dyne			
Q 37 :	The energy possessed by an object by virtue of it's position or state	of motion is Energy	Marks :	1
	1 . Mechanical	( This Answer is Correct )		
	2. solar	_		
	3. physical			
	4. physiological			
Q 38 :	In a doorbell energy is converted to sound energy.		Marks :	1
	1 . electrical	( This Answer is Correct )		
	2. magnetic			
	3. chemical			
	4. Thermal			
Q 39 :	The rate of doing work is called		Marks :	1
	1. moment of force			
	2. power	( This Answer is Correct )		
	3. energy	_		
	4. force			
Q 40 :	The angle between the incident ray and refracted ray is called angle	of	Marks :	1
	1. incidence			
	2 . refraction			
	3 deviation	( This Answer is Correct )		
	•			

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is called......

	1 . reflected index			
	2 . refractive index	( This Answer is Correct )		
	3 . refractive coefficient			
	4 . linear coefficient			
Q 42 :	The geometric centre of a spherical mirror is called		Marks :	1
	1. focus			
	2. aperture			
	3 . centre of curvature			
	4. pole	( This Answer is Correct )		
Q 43 :	The distance between the pole of the mirror and the centre of cu	urvature is called	Marks :	1
	1 . centre of curvature			
	2 . radius of curvature	(This Answer is Correct)		
	3. pole			
	4 . aperture			
Q 44 :	The relationship between the focal length and radius of curvatur	e in a spherical mirror is	Marks :	1
	1. R=f			
	2 . R=f/2			
	<b>3</b> . R=2f	( This Answer is Correct )		
	4 . R=f-2			
45 :	The following in the characters of a real image:		Marks :	1
	1 . inverted in nature			
	2 . obtained on screen			
	3 . image formed after intersection of rays			
	4 . all of these	( This Answer is Correct )		
Q 46 :	The band of colours formed after dispersion is called		Marks :	1
₹ ₹0 .	4. Conceatoring	( This Answer is Correct )		
( 40 .	1 . Spectrum	( This / thower is contest )		
. 40 .	2. beam	(Thie / thowar to donost)		
<b>.</b>		(Tille / tillower le Gorisott)		

Q 47:

1. same

	2. different wavelength of each colour			
	3 . same or different	( This Answer is Correct )		
	4 . both same and different			
Q 48 :	The valency for Aluminium is		Marks :	1
	1 . Al +1			
	2. Al +2			
	3 . Al +4			
	<b>4</b> . Al +3	( This Answer is Correct )		
Q 49 :	A chemical equation in which the number of atoms of each elements side is a balanced equation.	nt on the reactant side and product	Marks :	1
	1 . More on product side			
	2 . mlre on reactant side			
	<b>3.</b> same	( This Answer is Correct )		
	4 . unequal			
Q 50 :	The combining capacity of an element with other element is called	l	Marks :	1
	1. Symbol			
	2 . formula			
	3 . valency	( This Answer is Correct )		
	4. compound			
Q 51 :	The substance that accelerates the speed of a reaction is		Marks :	1
	1. Enzyme			
	2 . promoter			
	3. catalyst	( This Answer is Correct )		
	4 . stepper			
Q 52 :	Following is an example of application of moment of force:		Marks :	1
	1. wheel of a bicycle			
	2. bottle opener			
	3. spanner			
	4 . all of these	( This Answer is Correct )		

Q 53 :	Find the moment of force of a body to which a force of 10N is applied at a distance of 0.5m from the pivot.	Marks:	1
	1. 10N		
	2. 5N (This Answer is Correct)		
	3 . 20N		
	4 . 15N		
Q 54 :	Where do we find the pressure is reduced when we increase the surface area?	Marks :	1
	1. tip of the nails		
	2 . foundation of building		
	3 . walls of dams		
	4. Both foundations of the buildings and walls of the dams (This Answer is Correct)		
Q 55 :	What is the K.E. of a 1kg ball moving with the velocity of 8 m/sec2 ?	Marks :	1
	1. 32J (This Answer is Correct)		
	2 . 16J		
	3. 48J		
	4. 64J		
Q 56 :	A man weighing 50 kg is standing at a height of 10 metres.(g=10 m/sec2).What is the P.E. of man?	Marks :	1
	1. 500J		
	2 . 250J		
	3. 50J		
	4. 5000J (This Answer is Correct)		
Q 57 :	Refractive index of water with respect to vaccum is	Marks :	1
	1. 1.5 (This Answer is Correct)		
	2. 0.6		
	3. 1.3		
	4. 1		
Q 58 :	Calculate the focal length of a convex mirror which has radius of curvature as 8 cm.	Marks:	1
	1. 8 cm		
	2. 4 cm		
	3 ■ 16 cm (This Answer is Correct)		
	4. 6cm		

Q 59 :	What is the value of x in the following equation- CaCO3 + xHCl =	> H2O + CO2	Marks:	1
	1. 1			
	<b>2.</b> 2	(This Answer is Correct)		
	3. 3			
	4. 4			
Q 60 :	What is the valency N in the compound Mg3N2?		Marks :	1
Q 60 :	What is the valency N in the compound Mg3N2 ?  1. 1		Marks :	1
Q 60 :			Marks :	1
Q 60 :	1. 1	( This Answer is Correct )	Marks :	1
Q 60 :	1. 1 2. 2	( This Answer is Correct )	Marks :	1