VI, S2,0	PHYSICS TIME: 2	2 Hrs		
	Answers to this Paper must be written on the paper provided separately. You will not be allowed to write during first 15 minutes. This time is to be spent in reading the question paper. The time given at the head of this Paper is the time allowed for writing the answers.			
Questi	on 1			
Choos	e the correct answers to the questions from the given options.	[2]		
(Do no	ot copy the question, write the correct answers only.)			
(i)	The attraction of iron filings by the poles of a magnet:			
	(a) zero (b) minimum (c) medium (d) maximum			
(ii)	Which of the following is a method of magnetising a magnetic material?			
	(a) induction (b) distillation (c) evaporation (d) heating			
(iii)	Which of the following is incorrect about force of friction?			
	(a) It acts in the direction of motion (b) It acts opposite to the direction of motion			
	(c) It depends on the weight of the object (d) It has magnitude and direction			
(iv)	We get a shadow when light rays are			
	(a) reflected (b) scattered (c) blocked (d) absorbed			
(v)	Solar eclipse occurs on:			
	(a) every new moon's day (b) certain new moon's day			
	(c) every full moon's day (d) certain full moon's day			
(vi)	Grease paper is an example of:			
	(a) translucent object (b) transparent object (c) opaque (d) all of these			
(vii)	Which of the following materials is used for making a magnetic keeper?			
	(a) Steel (b) Soft iron (c) Alnico (d) Copper			
(viii)	Friction is reduced by:			
	(a) making the surfaces wet (b) making the surfaces dry			
	(c) making the surfaces rough (d) sprinkling sand on the surface			
Questi	on 2			
Fill in	the blanks:	[2]		
(i)	are the objects that allow light to pass through them completely.			
(ii)	Rough handling destroys the properties of a magnet.			
(iii)	The less dark portion of a shadow is called			
(iv)	Moon is a body.			

(v) On squeezing a gum tube, its ----- changes.

MARK: 40

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(vi)	A stone falling from the roof of a building is an example of force.					
(vii)	The image formed by a pinhole camera is always					
(viii)	We use ball bearings to the friction.					
Questic	on 3					
Write (te true or false:					
(i)	Eclipses are shadows occurring in space.					
(ii)	A point source produces both umbra and penumbra.					
(iii)	Solar eclipse occurs when earth's shadow falls on the moon.					
(iv)	Magnetic poles always occur in pairs.					
(v)	A magnet can attract only magnetic substances.					
(vi)	Artificial magnets are weaker than natural n	nagnets.				
(vii)	A force cannot change the direction of motion of a moving object.					
(viii)	Gravitational force is a non contact force.					
Questic	on 4					
Pick th	Pick the odd one out and give scientific reason for your answer:					
(i)	Aluminium, brass, copper, nickel					
(ii)	Water, glass, air, black paper					
Question 5						
Questio	on 5					
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Questi	on 8		
Choose	e the correct option for the Assertion - Reason given below :	[1]	
(i)	Assertion (A): The shapes of fishes and birds are streamlined.		
	Reason (R): Friction can be increased by streamlining.		
(ii)	Assertion (A): Light reaches the earth from the sun after travelling through vacuum and then through air.		
	 Reason (R): Light does not require any medium for its propagation. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. 		
Questi	on 9		
Define	the following:	[4]	
	(i) Magnetic field (ii) Force of friction		
	(iii) Translucent substance (iv) Rectilinear propagation of light		
Questi	on 10		
Draw a	a neat labelled diagram of the following:	[3]	
	(i) Bar electromagnet (ii) Solar eclipse (iii) Formation of umbra and penumbra		
Questi	on 11		
Answe	Answer the following:		
(i)	State the effect produced by a force in the following cases:		
	(a) A rubber band is stretched (b) A child pushes a moving swing		

- (c) A footballer kicks a football at rest (d) A player uses his stick to deflect the ball
- (**ii**)



- (a) Identify the type of friction shown above and define it.
- (b) Write any two advantages and disadvantages of friction.
- (iii) (a) Identify the ray diagram given and write the characteristics of image formed in the diagram given below.
 - (b) State the effect on the image in a pinhole camera if :
 - (I) the hole is made bigger
 - (II) the luminous object is moved towards the pinhole



- (iv) Neetu was searching a sewing needle from the box containing buttons, threads and ribbons by using a magnet.
 - (a) Why did she use a magnet to search for the needle?
 - (b) Can she use it to search for her missing pearl?
 - (c) Write any two properties of magnet.

(v)



- (a) Identify the diagram and name the type of light source used above.
- (b) What happens when the screen is moved away from the object.
- (vi) (a) Which type of force is applied on the dough when a person makes chapatis?
 - (b) What changes bring about that force on the dough?
 - (c) Write any two effects of force applied on the objects.
- (vii) You are given an iron nail, a battery and a long piece of insulated copper wire.
 - (a) Can you make a magnet with items given? If yes, explain.
 - (b) Name the method of magnetisation used here.
 - (c) Name the magnet that can be made with the items given.
- (viii) Transparent sheet (A), translucent sheet (B) and opaque sheet (C) are arranged parallel to one another. A lighted candle is placed in front of the transparent sheet.
 - (a) What will a person observe when he is at positions A, B and C?
 - (b) Is moon a luminous body? Why?

