## Curriculum Aligned Competency Based Test Items

#### Physics Class 10

## Chapter 1 Reflection and refraction of light

1.	For the refraction through a rectangular	glass slab the diagram is given below.			
		1			
	1 1 2				
	X <sup>N</sup>				
	in the second se				
		nce and angle of refraction are respectively.			
	(a) X,P,M (b) X,M,P	(c) Y,M,P (d) Y,N,P			
2.	Image formed by plane mirror is				
		(c) Virtual and erect (d) Virtual and inverted			
3.	The power of the lens is $+2.5D$ . Its focal	-			
4		(c) + 80 (d) - 80			
4. 5.	With a proper ray diagram show conve				
5.	Which one of the following materials (a) Water (b) Glass (b)	c) Plastic (d) Clay			
6.					
0.	The angle between incident ray and reflected ray is 60°. What is the angle of Incidence?				
	(a) $30^{\circ}$ (b) $40^{\circ}$ (c) 6	50° (d) 50°			
7.	Match the following for the concave				
	Object Position	Image Position			
	At F	Between F and C			
	At C	Behind the mirror			
	Between F and P	At infinite			
	Beyond C	At C			
8.	What is the magnification of images forr	ned by the plane mirror?			
9.	A concave mirror gives virtual, and enlar	ged image of the object when the object is			
10.	What are the application of concave and	convex mirror?			

#### Chapter 2 Human eye and Colourful world

1.	The human eye forms the image of an object at its					
	(a) Cornea (b) Iris (c) Pupil (d) Retina					
2.	The correct order of refractive index	of various materials is :				
	(a) Diamond > Ice > Alcohol > Rock sa	alt				
	(b) Ice > Diamond > Rock salt > Alcoh	ol				
	(c) Diamond> Rock salt > Alcohol >Ic	e				
	(d) Rock salt > Alcohol > Ice > Diamo	nd				
3.	Draw the ray diagram for a convex mir	ror				
	(i) when light ray passes through optical centre					
	(ii) when light ray passes through focus					
4.	A thin layer of water is transparent b	ut a very thick layer of water is:				
	(a) translucent (b) opaque (c) most transparent (d) none of					
	these					
5.	Angle of deviation is given by					
		(c) $d = A - i + e$ (d) None of these.				
6.						
		c) vacuum (d) diamond				
7.	Angle of deviation is depends on:					
	(a) Angle of prism	(b) Nature of material of prism				
	(c) Angle of incidence on the prism (d) All of the above					
8.	Draw the dispersion of white light from a triangular prism.					
9.	Explain the reason behind the twinkling of stars and tyndall effect.					
10.	Match the following					
	Column A	Column B				
	Convex lens	Astigmatism				
	Concave lens	Муоріа				
	Bifocal lens	Hypermetropia				
	Cylindrical lens	Presbyopia				
1		Ctaract				
	Concave lens	Ctaract				

# Chapter 3 ELECTRICITY

1.	A body can be negatively charged					
	(a) Giving elect	rons to it	(b) removing	some electrons from it		
	(c) giving some protons to it		(d) removing			
2.	How many electrons are equals to 1 coulomb?					
	(a) 6.25 x 10 <sup>16</sup>	<b>(b)</b> 6.25 x 10 <sup>17</sup>	<b>(c)</b> 6.25 x 10 <sup>18</sup>	<b>(d)</b> 6.25 x 10 <sup>19</sup>		
3.	The direction of electric current is taken as to t			to the direction of		
	the flow of electrons.					
	<b>(a)</b> Same	(b) Opposite	<b>(c)</b> Both	(d) None		
4.	A device used to change the resistance of a circuit is					
	(a) Ammeter	(b) Voltmeter	(c) Rheostat	(d) Galvanometer		
5.	The resistances R1 and R2 are connected in parallel and in series. Write down					
	The equivalent resistance of the combination.					
6.	State the ohm's law. On what factor does it depend?					
7.	What is use of a fuse? Explain the working of a fuse in a circuit.					
8.	Draw the circuit diagram of a circuit having a battery, key, bulb, resistance					
	wire, voltmeter and ammeter.					
9.	If the current I through a resistor is increased by 100% (assume that temperature					
	remains unchanged), the increase in power dissipated will be:					
	<b>(a)</b> 100%	<b>(b)</b> 200%	(c) 300%	<b>(d)</b> 400%		
10.	The resistivity does not change if:					
	(a) the material is changed					
	(b) the temperature is changed					
	(c) the shape of the resistor is changed					
	(d) both material and temperature are changed					

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