

Physics Full Syllabus Test

VIII (ICSE) Full Syllabus Test
Full Marks: 80 Time: 2 hrs.

SECTION - A

(Compulsory)

1.	Wri	ite true or false for each statement and correct the false statements.	(5×2)
	(a)	Boiling takes place at all temperature.	
	(b)	The S.I. unit of relative density km/m ³ .	
	(c)	The S.I. unit of moment of force is joule.	
	(d)	Cubical expansion co-efficient of a material is less than the linear expansion coefficient.	
	(e)	Concave mirror always produce virtual image.	
2.	Fill		(10×1)
	(a)	Evaporation is a phenomenon.	
	(b)	$1 gm/cc = \underline{\qquad} kg/lit.$	
	(c)	Pressure inside a liquid increases with in depth.	
	(d)	A compressed spring possess energy.	
	(e)	A concave mirror produce a virtual image when the object is placed between and	<u> </u>
	(f)	Energy possessed by a moving object is energy.	
	(g)	The fastest mode of heat transfer is	
	(h)	A concave mirror produces real magnified image when the object is placed between	and
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		SECTION – B	
		(Answer any six questions)	
3.	(a)	Name the unit in which you pay the cost of your electricity bill. How is it related to joule?	2
	(b)	What is an electric fuse? State its purpose in the household electric circuit.	2
	(c)	A body of mass 5 kg is moving with a speed of 20 m/s. Calculate the kinetic energy of it.	2
	(d)	Complete the ray diagram and also write down the nature of the image.	2+2
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		C F	
4.	(a)	State two safety measures that you will observe in thunderstorm.	2
т.	(b)	How is a tall building protected from damage due to lightning?	2
	(c)	What is lightning conductor? How does it work?	2+2
	(d)	How will you use a gold leaf electroscope to find out whether the charge on a charged	
	(u)	positive or negative?	2.
5.	(a)	What is an electric meter? Where is it fixed in our house?	2+2
σ.	(b)	One day the meter reading is found to be 7643 units while the next day, it was 7657 units. We consumption of electricity in a day?	
	(c)	If an appliance of power P watt is used for time t hour. How much electrical energy is cons	_
	(0)	kwh?	3
6.	(a)	Why is the loudness of sound heard by a plucked wire increased when mounted on a sound be	
٠.	(b)	State three factors on which loudness of sound heard by a listener depends.	3
	(c)	Define: (i) loudness (ii) pitch (iii) quality (iv) frequency.	4
	(0)	Zome. (1) readiness (ii) phen (iii) quality (11) frequency.	•



7.	(a)	Water is heated from 0°C to 4°C. Will it expand?	2
	(b)	What is boiling?	2
	(c)	What do you understand by thermal expansion of a substance?	2
	(d)	Give two examples of the substances which expand on heating.	2
	(e)	Why the telephone wires break in winter?	2
8.	(a)	Name the kind of mirror used to obtain	4
		(i) a real and enlarged image	
		(ii) a virtual and enlarged image	
		(iii) a real and diminished image	
		(iv) a virtual and diminished image	
	(b)	State two use of convex mirror.	2
	(c)	State two use of concave mirror.	2
	(d)	How can a concave mirror be used to obtain a virtual image of an object?	2
9.	(a)	Define 1 joule of energy.	2
	(b)	What are the two kinds of mechanical energy?	2
	(c)	State two factors on which the kinetic energy of moving body depends.	2
	(d)	If the velocity becomes double then find the kinetic energy will becomes how much times?	2
	(e)	Two bodies of same masses are placed at height h and 2h. Compare their gravitational potential	ntial
		energy.	2
10.	(a)	Describe the process of condensation with examples.	3
	(b)	The mass of an empty density bottle is 30 gm, it is 75 gm when filled completely with water and	d 65
		gm when filled completely with a liquid. Find density of liquid.	4
	(c)	Find the thrust required to exert a pressure of 50000 Pa on an area of 0.05 m ² ?	3

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