



# PHYSICS

## BOOKS - FULL MARKS PHYSICS (TAMIL ENGLISH)

### SAMPLE PAPER - 7

#### Part I

1. In a myopic eye, the image of the object is formed .....

- A. behind the retina
- B. on the retina
- C. in front of the retina
- D. on the blind spot

**Answer: c**



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2. Ideal Gas laws state the relationship between . ..... properties of gas.

A. pressure

B. volume

C. temperature and mass

D. all the above

**Answer: d**



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**3. LED stands for.....**

A. a)Light Enter Diode

B. b)Liquid Emitting Diode

C. c) Light Emitting Diode

D. d)Liquid Enter Diode

**Answer: c**



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**4.** Which of the following has the smallest mass?

A.  $6.023 \times 10^{23}$  atoms of He

B. 1 atom of He

C. 2 g of He

D. 1 mole atoms of He

**Answer: b**



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5. \_\_\_\_\_group contains the members of halogen family .

A. 17th

B. 15th

C. 18th

D. 16th

**Answer: a**



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**6.** A solution in which no more solute can be dissolved in a definite amount of solvent at a given temperature is called \_\_\_\_\_

- A. Saturated solution
- B. Unsaturated solution
- C. Super saturated solution
- D. Dilute solution

**Answer: a**



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7. Water which is absorbed by roots is transported to aerial parts of the plant through

A. cortex

B. epidermis

C. xylem

D. phlem

**Answer: a**



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**8. Which type of cancer affects lymph nodes and spleen ?**



A. Carcinoma

B. Sarcoma

C. Leukemia

D. Lymphoma

**Answer: d**



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9. During \_\_\_\_\_ glucose is broken into pyruvic acid.

A. Glycolysis

B. Kreb's cycle

C. Electron transport chain

D. None of these

**Answer: a**



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**10.** The plant which propagates with the help of its leaves is \_\_\_\_\_.

A. Onion

B. Neem

C. Ginger

D. Bryophyllum

**Answer: d**



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**11. ....gland is both exocrine and endocrine.**

A. Pancreas

B. Kidney

C. Liver

D. Lungs

**Answer: a**



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**12. All files are stored in the \_\_\_\_\_**

A. Box:

B. Folder

C. pai

D. Scanner

**Answer: b**



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## Part II

1. Define inertia. Give its classification.



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2. State Charle's law.



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3. Differentiate stokes line and antistokes lines.



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4. What is aqueous solution:



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5. How is ethanoic acid prepared from ethanol? Give the chemical equation.



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6. How does the leech suck blood from the host?



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## 7. Match the following

	<b>Hormones</b>		<b>Disorders</b>
(a)	Thyroxine	(i)	Tetany
(b)	Insulin	(ii)	Simple goitre
(c)	ADH	(iii)	Diabetes mellitus
(d)	Parathormone	(iv)	Diabetes insipidus



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8. (a) What is photosynthesis and where in a cell does it occur?

(b) How can menstrual hygiene be maintained during menstrual days?



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9. What are transgenic organisms?



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10. The potential difference between two conductors is 110 V. How much work is moving 10C charge from one conductor to the other?



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1. Differentiate mass and weight.



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2. (i) Explain the sign conventions of lenses.

(ii) Define dispersion of light.



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3. (a) What is meant by electric current ? Give its direction ?

(b) Name and define its unit.

(c ) Which instrument is used to measure the electric current ? How should it be connected in a circuit ?



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4. Explain how Avogadro hypothesis is used to derive the value of atomicity.



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5. what is salting out of soap:



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6. Distinguish between bipolar neuron and multipolar neuron.



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7. Trace the pathway followed by water molecules from the time it enters a plant root

to the time it escapes into the atmosphere from a leaf.



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**8.** List the difference between Dicot and Monocot stem.



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**9. (a)** Expand the following abbreviations.

(i) CHD (ii) BMI (iii) AIDS (iv) IDDM



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**10.** With an illustration, explain the method of calculation for areal expansion of an object.



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**11.** What is gram atomic mass? Given example.



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1. (i) What is mean by reflection of sound?



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2. At what height from the center of the Earth the acceleration due to gravity will be  $\frac{1}{4}$ th of its value as at the earth.



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3. (a) (i) Calculate the number of molecules in 10 mole of  $H_2$ .

(11) Calculate the number of moles in 1 kg of  $CaCO_3$

(iii) Calculate the volume of 14 g of  $N_2$  gas.



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4. Derive the relationship between relative molecular mass and Vapour density.



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5. Where are estrogens produced? What is the role of estrogens in the human body?



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6. what is fossilisation?



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