



PHYSICS

BOOKS - FULL MARKS PHYSICS (TAMIL ENGLISH)

SAMPLE PAPER - 12

Part I

1. In which of the following sport the turning effect of force used ?

A. Swimming

B. Tennis

C. Cycling

D. Hockey

Answer: C



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

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

Answer: C



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3. When two 2Ω resistors are connected in parallel, the effective resistance is

A. 4Ω

B. 1Ω

C. 0.5Ω

D. 5Ω

Answer: B



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4. _____ aprons are used to protect us from gamma radiations

A. Lead oxide

B. Iron

C. Lead

D. Aluminium

Answer: C



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5. Atomicity of phosphorous is _____.

A. 4

B. 3

C. 5

D. 6

Answer: A



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6. TFM in soaps represents _____ content in soap .

A. mineral

B. vitamin

C. carbohydrate

D. fatty acid

Answer: D



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7. _____ is ATP factory of the cells.

A. Chloroplasts

B. Mitochondria

C. Nucleus

D. Golgi Complex

Answer: B



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8. In rabbit,.....type of teeth is absent.

A. incisors

B. canines

C. molar

D. premolar

Answer: B



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9.is the important neurotransmitter released by neurons.

A. Cerebrospinal Fluid

B. Axoplasm

C. Acetylcholine

D. All the above

Answer: C



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10. Name the gaseous plant hormone.

A. Abscisic acid

B. Cytokinin

C. Auxin

D. Ethylene

Answer: D



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11. We can cut the DNA with the help of

A. restriction endonucleases

B. RNAase

C. scissors

D. knife

Answer: A



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12. Common energy source in village is

A. electricity

B. coal

C. biogas

D. wood and animal dung

Answer: C



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Part II

1. Define moment of a couple.



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2. State Rayleigh's law of scattering.



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3. Why is tungsten metal used in bulbs?



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4. Which material protects us from radiation ?



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5. Differentiate irreversible and reversible reactions.



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6. Explain diphyodont dentition.



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7. Enumerate the function of blood .



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8. (a) Name the gaseous plant hormone.

Describe its three different actions in plants.

(b) Which hormone is known as stress hormone in plants ? Why?



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9. What is autogamy?



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10. Solve the equation for α decay and β decay.

α decay ${}_{88}\text{Ra}^{226} \rightarrow \text{Rn} + \dots\dots\dots$

β decay ${}_{27}\text{Co}^{60} \rightarrow \text{Ni} + \dots\dots\dots$

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Part iii

1. Deduce the equation of a force using Newton's second law of motion.

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2. Explain the rules for obtaining images formed by a convex lens with the help of ray diagram.



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3. Write down the uses of CT?



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4. Name the acid that render aluminium passive. Why ?



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5. In what way hygroscopic substances differ from deliquescent substances .



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6. Describe the structure of chromosome.



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7. Define Ethnobotany and write its importance.



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8. What are transgenic organisms?



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9. Discuss the method of breeding for disease resistance.



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10. A piece of wire of resistance 20Ω is drawn out so that length is increased to twice its original length. Calculate the new resistance.



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1. What is mean by reflection of sound?

Explain.

(a) Reflection at the boundary of a rarer medium

(b) Reflection at the boundary of a denser medium

(c) Reflection at sound in curved surfaces



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2. An object of height 3 cm is placed at 10 cm from a concave lens of focal length 15 cm. find the size of the image.



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3. What is the pH of 1.0×10^{-5} molar solution of KOH ?



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4. Define the term solutions



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5. What are the advantages of using biogas?



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6. Explain in the structure of spinal cord.



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