



PHYSICS

BOOKS - FULL MARKS PHYSICS (TAMIL ENGLISH)

SAMPLE PAPER - 17

Part I

1. Plotting a graph for momentum on the X-axis and time on Y-axis. Slope of momentum-

time graph gives

A. impulsive force

B. acceleration

C. force

D. rate of forece

Answer: C



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2. If V_B , V_G , V_R be the velocity of blue , green and red light respectively in a glass prism, then which of the following statement gives, the correct relation ?

A. $V_B = V_G = V_R$

B. $V_B > V_G > V_R$

C. $V_B < V_G < V_R$

D. $V_B < V_G > V_R$

Answer: B



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3. Boron - 10 and Boron - 11 are called

.

A. isotopes

B. isobars

C. isotones

D. isomers

Answer: A



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4. Deflected by electric field : α ray, Null

Deflection

A. β ray

B. α ray

C. infra red ray

D. γ ray

Answer: D



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5. The process of coating the surface of metal with a thin layer of zinc is called _____

A. painting

B. thinning

C. galvanization

D. electroplating

Answer: C



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6. The chemical equation



represents which of the following types of reaction ?

- A. Precipitation
- B. Combustion
- C. Neutralisation
- D. Single displacement

Answer: A



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7. Assertion : Cristae increases the inner surface area of mitochondria.

Reason : Cristae involve in ATP synthesis.

A. Oxysomes

B. Nucleus

C. Xylem

D. Epidermis

Answer: A



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8. The brain of leech lies above the

A. mouth

B. buccal

C. pharynx

D. crop

Answer: C



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9. Root hairs are

A. cortical cell

B. projection of epidermal cell

C. unicellular

D. both (b) & (c)

Answer: D



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10. Calculate the molar mass of CH_4



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11. The hormone which has positive effect on apical dominance is

A. cytokinin

B. auxin

C. gibberllin

D. ethylene

Answer: B



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12. Which of the following is used to produce products useful to humans by biotechnology techniques?

- A. enzyme from organism
- B. live organism
- C. vitamins
- D. both (a) & (b)

Answer: D



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Part II

1. Define inertia. Give its classification.



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2. Correct the statement : (True or False)

(a) Velocity of light is greater in denser medium than in rarer medium.

(b) Increase in the converging power of eye lens causes 'hypermetropia'.



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3. Which instrument is used to measure the electric current ?



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4. which instrument used to measure resistance ?



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5. Name the simplest ketone and give its structural formula.



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6. Give the common name of the *Hirudinaria granulosa*.



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7. Define stimulus.



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8. Name the part of the human female reproductive system where the following occurs .

Fertilization



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9. How are chromosomes classified based on the position of centromere ?



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10. Find the molecular mass of NaOH.



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Part iii

1. what is ammeter?



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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. With an illustrations explain the method of calculation for cubical expansion of an object.



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4. Identify the bond between H and F in HF molecule.



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5. Write notes on unsturated solution.



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6. Represent a flow chart showing the postulates of Lamarckism.



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7. How are stem cells useful in regenerative process ?



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8. What are the functions of Lymph ?



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9. List out the parasitic adaptations in leech.



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10. Explain why, the ceilings of concert halls are curved.



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Part IV

1. The ratio of masses of two planets is 2:3 and the ratio of their radii is 4:7 . Find the ratio of their acceleration due to gravity .



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2. what is pH full form?



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3. What is food?



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