

PHYSICS

BOOKS - FULL MARKS PHYSICS (TAMIL ENGLISH)

SAMPLE PAPER-05(SOLVED)

Part I

1. The unit of 'g' is ms^{-2} . It can be expressed

as _____.

A.
$$cms^{-1}$$

B.
$$NKg^{-1}$$

C.
$$Nm^2kg^{-1}$$

D.
$$cm^2s^{-2}$$

Answer: b



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2. A convex lens forms a real, diminished point sized image on focus. Then the position of the object is at

A. focus B. infinity C. at 2f D. between f and 2 f Answer: b **Watch Video Solution** 3. Velocity of sound is maximum in A. Solid

B. Liquid

C. Gases

D. All the above

Answer: a



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4. The Volume occupied by 4.4 g of CO_2 at S.T.P

A. 22.4 litre

- B. 2.24 litre
- C. 0.24 litre
- D. 0.1 litre

Answer: b



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5. Which of the following have inert gases 2 electrons in the outermost shell?

A. He

B. Ne
C. Ar
D. Kr
Answer: a
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6. Deliquescence is due to
A. Strong affinity to water
B. Less affinity to water

- C. Strong hatred to water
- D. Interness to water

Answer: a



- **7.** Decrease in leucocytes is......
 - A. Leucopenia
 - B. Leukemia
 - C. Anaemia

D. None of the above

Answer: a



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8. Cancer cells are more easily damaged by radiations than normal cells because they are

A. Different in structure

B. Non-dividing

C. Mutated Cells

D. Undergoing rapid division

Answer: d



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9. The xylem and phloem arranged side by side on same radius is called _____.

A. radial

B. amphivasan

C. conjoint

D. amphicribral

Answer: c



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10. _____ are green coloured plastids.

A. Chloroplast

B. Chromoplast

C. Leucoplast

D. Stele

Answer: a



- **11.** The best way of direct dating fossils of recent origin is by......
 - A. Radio-carbon method
 - B. Uranium lead method
 - C. Potassium-argon method
 - D. Both (a) and (c)

Answer: a



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12. All files are stored in the ____

A. Box

B. Pai

C. Scanner

D. Folder

Answer: d



Part li

1. Define moment of a couple.



2. Distinguish between the resistivity and conductivity of a conductor .



3. Why does sound travel faster on a rainy day than on a dry day?



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4. What is rust ? Give the equation for formation of rust .



5. Give an example each gas in liquid



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6. How does leech respire?



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7. What is bolting?



8. Match the following:

- (a) Regeneration (i) Yeast
- (b) Budding (ii) Spirogyta
- (c) Fission (iii) Planaria
- (d) Fragmentation (iv) Amoeba



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9. What is Atavism?



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10. Calculate the velocity of a moving body of mass 7 kg whose liner momentum is 5 kg ms^{-1}



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11. Explain the meaning of law of conservation of linear momentum



12. What connection is used in domestic appliances and why?



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13. what is an epoch?



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14. Mention the disadvantages of detergents.



15. Why does the reaction rate of a reaction increase on raising the temperature ?



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16. How the disease are transmited from one person to the other person?



17. What is cohesion?



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18. Give an account on vascular bundle of dicot stem.



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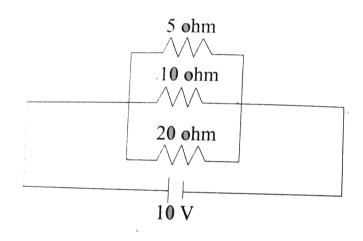
19. State the application of DNA finger printing technique.

20. A solution is made from 25 ml of ethanol and 75 ml of water. Calculate the volume percentage.



21. In the circuit diagram given below, three resistors $R_1,\,R_2$ and R_3 of $5\Omega,\,10\Omega$ and 20Ω respectively are councted as shown.

- (A) Current through each resistor
- (B) Total current in the circuit
- (c) Total resistance in the circuit





22. Find the percentage of nitrogen ir ammonia.



23. Write notes on various factors affecting solubility.



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24. What are the advantages of using biogas?



25. What is hermaphrodite?



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Part Iv

- **1.** (i) What are the characteristic features of heat energy transfer?
- (ii) Explain linear expansion with diagram?

