



PHYSICS

BOOKS - FULL MARKS PHYSICS (TAMIL ENGLISH)

SAMPLE PAPER - 18

Part I

1. Inertia of the body depends on

A. weight of the object

B. acceleration due to gravity of the planet

C. mass of the object

D. both (a) & (b)

Answer: C



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2. The distance between the lens and focus is called _____.

A. pole

B. radius of curvature

C. principal axis

D. focal length

Answer: D



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3. The frequency, which is audible to the human ear is

A. 50 kHz

B. 20 kHz

C. 15,000 Khz

D. 10,000 kHz

Answer: B



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4. In the nucleus of ${}_{20}\text{Ca}^{40}$, there are _____.

A. 20 protons and 40 neutrons

B. 20 protons and 20 neutrons

C. 20 protons and 40 electrons

D. 40 protons and 20 electrons

Answer: B



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5. Rectified spirit is an aqueous solution which contains about _____ of ethanol .

A. 95.5 %

B. 75.5 %

C. 55.5 %

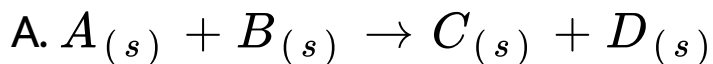
D. 45.5 %

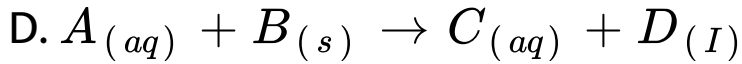
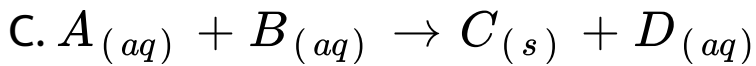
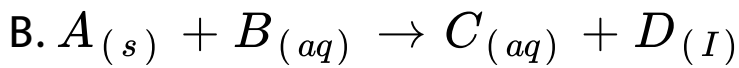
Answer: A



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6. which of the folloeing represent a precipitation reaction ?





Answer: C



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7. The animals which give birth to young ones are

A. oviparous

B. viviparous

C. ovoviviparous

D. all the above

Answer: B



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8. Discuss the role of magnesium in plants.

A. Respiration

B. Excretion

C. Transpiration

D. None of the above

Answer: C



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9. Bipolar neurons are found in_____

A. early embryo

B. cerebral cortex

C. respiratory epithelium

D. retina of the eye

Answer: D



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10. Which hormone is referred as "flight and fight" hormone ?



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11. Which method of crop improvement can be practised by a farmer if he is in experienced?

A. Clonical selection

B. Mass selection

C. Hybridization

D. Pureline seletion

Answer: B



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12. Where you will create category of blocks ?

A. Block menu

B. Block palette

C. Script area

D. Sprite

Answer: A



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1. What is the minimum distance needed for an echo?



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2. What is stellar energy ?



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3. Write down the difference between the sound and light waves.





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4. Define atomicity ,give one example.



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5. Match the following :

- | | |
|--------------------|-------------------|
| (1) Conidia | (i) Yeast |
| (2) Budding | (ii) Bacteria |
| (3) Gamma cups | (iii) Aspergillus |
| (4) Binary fission | (iv) Marchantia |



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6. Why are the rings of cartilages found in trachea of rabbit?



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7. Mature RBC in mammals do not have cell organelles .



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8. What are resolution and resolving power?





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9. Genotypic ratio of monohybrid cross



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10. A sound wave has a frequency of 200 Hz and a speed of 400ms^{-1} in a medium. Find the wavelength of the sound wave.



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1. What is Tyndall scattering ?



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2. Give examples for Newton's third law .



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3. What are the factors that affect the speed of sound in gases?



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4. How will you determine the density of a stone using a measuring jar?



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5. how can increase solubility?



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6. How can you find the age of fossiles ?



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7. Differentiate between outbreeding and inbreeding.



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8. What is the importance of rainwater harvesting?



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9. What are the functions of leaf?



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10. Two bodies have a mass ratio of 3:4. The force applied on the bigger mass produces an

acceleration of 12 m s^{-2} . What could be the acceleration of the other body , if the same force acts on it .



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Part Iv

1. State newton's third law



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2. An object is placed at 50 cm from a lens produces a virtual image at a distance of 10 cm in front of the lens . What is the focal length of the lens ? Is it converging or diverging ?



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3. write any four characteristics features of homologous of organic compounds?



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4. How many grams are there in 2 moles of H_2O .



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5. The _____ phase of menstrual cycle is also called secretory phase



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6. With a neat labelled diagram explain the techniques involved in gene cloning.



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