



# PHYSICS

## BOOKS - AGRAWAL EXAM CART BIHAR

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## ENTRANCE EXAM SOLVED PAPER 2021

### Section Iv General Science

1. The property of metals by which they can be beaten into thin sheets is called \_\_\_\_ .

A. Ductility

B. Brittleness

C. Malleability

D. Conductivity

**Answer: C**



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2. Which component of the cell is called the power house of the cell ?

A. Lysosome

B. Mitochondria

C. Ribosome

D. Cell wall

**Answer: B**



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**3.** Which one of the following is correctly matched ?

A. Adrenaline Growth hormone

B. Insulin Female hormone

C. Estrogen Stress reliever hormone

D. Testosterone Male hormone

**Answer: D**



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**4. Which one is a contact force?**

A. Electrostatic force

B. Magnetic force

C. Frictional force

D. Gravitational force

**Answer: C**



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**5. Friction is increased by.....**

A. Lubrication

B. Powder sprinkled on cartom board

C. Smoothing the surface

D. Treading of tyres

**Answer: D**



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**6. Which one is not a unit of pressure ?**

A.  $Nm^{-2}$

B. Pascal

C.  $Nm^{-1}$

D. Dyne  $Cm^{-2}$

**Answer: C**



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7. Images are formed by.....

A. Regular reflection

B. Irregular reflection

C. Diffused reflection

D. Reflection

**Answer: D**



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**8.** A star is 20 light years from the Earth. How much time does it take for the light from the star to reach the Earth ?

A. 60 years

B. 20 years

C. 6 years

D. 15 years



**Answer: B**



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9. Which one of the following characteristics of sound depends on amplitude of vibration ?

A. Speed

B. Pitch

C. Loudness

D. Quality

**Answer: C**



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**10.** If the angle between incident ray and reflected ray is  $120^\circ$ , what is the angle of incidence ?

A.  $60^\circ$

B.  $90^\circ$

C.  $30^\circ$

D.  $45^\circ$

**Answer: A**



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**11.** Through which of the following does electric current not flow?

A. Solution of hydrochloric acid

B. Copper wire

C. Solid sodium chloride

D. Molten sodium chloride

**Answer: A**



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**12.** The power of which one of the following expressed in terms of magnitude on a scale called the Richter Scale ?

A. Lightning

B. Cyclone

C. Tsunami

D. Earthquake

**Answer: D**



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**13.** In terms of increasing distance from Sun, the correct sequence of the first three inner planets of the solar system is :

- A. Earth, Mercury, Venus
- B. Venus, Mercury, Earth
- C. Mercury, Venus, Earth
- D. Earth, Venus, Mercury

**Answer: C**



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**14.** Which two planets of our solar system rotate from east to west?

A. Mercury and Neptune

B. Venus and Uranus

C. Mars and Uranus

D. Venus and Neptune

**Answer: B**



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