



# PHYSICS

**AIMED AT STUDENTS PREPARING FOR  
IIT JEE EXAMS**

**MATHEMATICAL REVIEW & PHYSICAL  
WORLD**

**Example**

1. Find the value of  $(1002)^{\frac{1}{3}}$



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2. The value of gravity ( $g$ ) at surface of earth is proportional to  $\frac{1}{R^2}$ ,  $R$  is radius of earth, what is the value of gravity at height  $h$  from the surface.



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3. If  $x$  is very small then find the value of

$$\frac{1 - x}{1 + x}$$



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CUQ

1. What is the discovery of *CV* Raman?

- A. Inelastic scattering of light by molecules
- B. Steam engine
- C. Propagation of EM Waves
- D. Reflection of Ultrasonic waves

**Answer: A**



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2. What is the contribution of *S.Chandra* Sekher to physics?

A. cosmic radiation

B. Nuclear model & atom

C. LASER

D. structure and evolution of stars

**Answer: D**



3. Who discovered electron?

A. Albert Einstein

B. J.C. Bose

C. J.J.Thomson

D. Bohr

**Answer: C**



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4. Who discovered neutron?

A. James Chadwick

B. Fermi

C. S.N. Bose

D. Millikan

**Answer: A**



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5. What is the working principle of Steam engine?

- A. Digital logic
- B. Super conductivity
- C. Laws of thermodynamics
- D. Nuclear fission

**Answer: C**



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6. Photocell works on the principle of

- A. Raman effect
- B. Compton effect
- C. Secbeck effect
- D. photoelectric effect

**Answer: D**



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7. Name the principal on which a rocket works.



A. Newton's laws of motion

B. Bemouli's principle

C. Photoelectric effect

D. Faraday's laws of EMI

**Answer: A**



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**8.** Name the branch of science which deals with the study of stars ?

A. Astronomy

B. Biology

C. Geology

D. Chemistry

**Answer: A**



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**9. Who Discovered the principle of inertia?**

A. Newton

B. Galileo

C. Tycho Brahe

D. Kepler

**Answer: B**



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**10. Who invented wireless telegraphy ?**

A. Maxwell

B. Marconi

C. Hertz

D. Faraday

**Answer: B**



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**11. Match the following**

A-Force B-relative strength

1) Gravitational force a) 1

2) Weak force b)  $10^5$

3) Electromagnetic C)  $10^{36}$  force

4) Nuclear force d)  $10^{38}$

A. 1-a, 2-b, 3-c, 4-d

B. 1-b, 2-c, 3-a, 4-d

C. 1-4, 2-c, 3-b, 4-a

D. 1-a, 2-c, 3-b, 4-d

**Answer: A**



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**12.** Match the technology in column A to its related scientific principle in column B

A Technology B-Scientific Principle

1) Steam engine a) Faraday's laws

2) Nuclear Reactor b) Thermodynamic laws

3) Computer c) Nuclear Fission

4) Electric generation d) Digital logic

A. 1-b,2-d,3-c,4-a

B. 1-b,2-c,3-d,4-a

C. 1-a,2-c,3-d,4-b

D. 1-d:2-a,3-c,4-b

**Answer: B**



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**13.** Match the scientist's name against discovery

A-Scientist B - Discovery

1) Faraday a) Expansion of Universe

2) Newton b) Law of EMI

3) Einstein c) Law of gravitation

4) Hubble d) Theory of relativity

A. 1-b2-c,3-d:4-a

B. 1-b,2-d,3-c,4-a

C. 1-b,2-c:3-a,4-d

D. 1-b2-a,3-c,4-d

**Answer: A**



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