

(EPC01-0001E)

- The branch of science which deals with the study of matter and energy and the relationship between them is called
  - A) Astronomy
  - B) Geology
  - C) Physics
  - D) Biology

(EPC01-0002M)

- Al-Shifa was written by
  - A) Al-Biruni
  - B) Jabir-Bin-Hayyan
  - C) Al-Khawarizmi
  - D) Ibn-e-Sina

(EPC01-0003M)

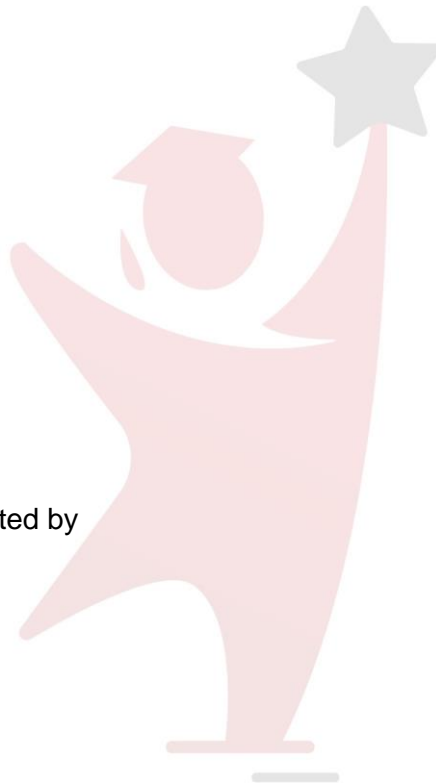
- Pin-hole camera was invented by
  - A) Al-Beruni
  - B) Ibn-UL-Haithem
  - C) Al-Khawarizmi
  - D) Ibn-e-Sina

(EPC01-0004M)

- Al-Manazir is the famous book of
  - A) Al-Beruni
  - B) Al - Kindi
  - C) Ibn-ul-Haithem
  - D) Al-Khawarizmi

(EPC01-0005E)

- The quantities like length, time, mass, force, electric charge and many more are called
  - A) basic quantities
  - B) Physical quantities
  - C) Derived quantities
  - D) Specified quantities



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(EPC01-0006E)

- The S.I. units consists of
  - A) Five basic units
  - B) Five derive units
  - C) Seven derived
  - D) Seven basic units

(EPC01-0007M)

- The S.I. unit of intensity of light is
  - A) Meter
  - B) Kilogram
  - C) Candela
  - D) Mole

(EPC01-0008M)

- Erg x sec is the unit of
  - A) Angular momentum
  - B) Linear momentum
  - C) Planck's constant
  - D) Energy

(EPC01-0009M)

- Which of the following is (are) dimensionless?
  - A) Refractive index
  - B) Specific heat
  - C) Universal gravitation constant
  - D) Momentum

(EPC01-0010M)

- The dimensional formula for angular velocity is
  - A)  $ML^0T^{-2}$
  - B)  $MLT^1$
  - C)  $M^0L^0T^{-1}$
  - D)  $M^0L^0T^0$



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(EPC01-0011M)

- The dimensional formula for G is
  - A)  $ML^3T^{-2}$
  - B)  $M^{-1}L^3T^{-2}$
  - C)  $M^{-1}L^2T^{-3}$
  - D)  $ML^2T^{-3}$

(EPC01-0012M)

- The dimensional formula for potential difference is
  - A)  $ML^2T^{-3}I^{-1}$
  - B)  $M^2LT^{-3}I$
  - C)  $ML^2T^{-2}I^{-1}$
  - D)  $MLT^{-3}I^{-1}$

(EPC01-0013M)

- The dimensional formula for resistance is
  - A)  $ML^2T^{-3}I^{-1}$
  - B)  $ML^2T^{-2}I^{-2}$
  - C)  $ML^2T^{-3}I^{-2}$
  - D)  $MLT^{-3}I^{-2}$

(EPC01-0014M)

- The dimensional formula for inductance is
  - A)  $ML^2T^{-2}I^{-1}$
  - B)  $ML^2T^{-2}I^{-2}$
  - C)  $ML^{-2}T^2I^2$
  - D)  $M^2L^2T^{-3}I^{-2}$

(EPC01-0015E)

- Which of the following is a derived quantity?
  - A) mass
  - B) velocity
  - C) length
  - D) time



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(EPC01-0016M)

- Which of the following quantities has not been expressed in proper units:
  - A) Young's Modulus =  $\text{Nm}^{-2}$
  - B) Surface tension =  $\text{Nm}^{-1}$
  - C) Pressure =  $\text{Nm}^{-2}$
  - D) Energy =  $\text{kgms}^{-1}$

(EPC01-0017E)

- The branch of physics which deals with the atomic nuclei is called:
  - A) solid state physics
  - B) medical physics
  - C) nuclear physics
  - D) mechanics

(EPC01-0018M)

- Ratio of dimensions of velocity to acceleration is:
  - A)  $[\text{LT}^{-1}]$
  - B)  $[\text{T}]$
  - C)  $[\text{L}]$
  - D)  $[\text{LT}^{-2}]$

(EPC01-0019E)

- Radian is unit of:
  - A) Plane angle
  - B) Solid angle
  - C) Area
  - D) Radius

(EPC01-0020E)

- The fundamental quantities which form the base for the SI system are:
  - A) mass, energy and time
  - B) mass, force and time
  - C) mass, length and time
  - D) force, length and time



(EPC01-0021M)

- The dimensions of the relation  $\sqrt{\frac{F \times l}{m}}$  are equal to the dimensions of:  
A) force  
B) momentum  
C) acceleration  
D) velocity

(EPC01-0022M)

- The dimension of the relation  $mc^2$  are equal to the dimensions of:  
A) force  
B) momentum  
C) energy  
D) torque

(EPC01-0023M)

- $M^0L^0T^{-1}$  refer to quantity:  
A) velocity  
B) time period  
C) frequency  
D) force

(EPC01-0024E)

- Which is not a base unit?  
A) meter  
B) ampere  
C) candela  
D) radian

(EPC01-0025M)

- Dimensional analysis helps:  
A) to find relationship between quantities  
B) to convert one system of unit into another  
C) to confirm correctness of any physical equation  
D) all of the above



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Answers Key	
1	C
2	D
3	B
4	C
5	B
6	D
7	C
8	C
9	A
10	C
11	B
12	A
13	C
14	B
15	B
16	D
17	C
18	B
19	A
20	C
21	D
22	C
23	C
24	D
25	D