

PHY 192 <practical physics>

PRACTICE QUESTIONS

1> Which of the following is not a characteristics of concave lens?

- a) Real
- b) Inverted
- c) Diminished
- d) VIRTUAL

2> When the magnification of a lens is less than one the image that will be formed is

- a) Inverted
- b) Real
- c) DIMINISHED
- d) All of the above

3> Which of the following device do not have a capacitor

- a) Fan
- b) IRON
- c) Television
- d) Radio

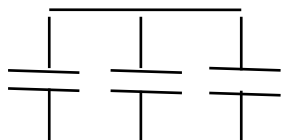
4> The following are defects of the eyes except

- a) Myopia
- b) CONJUNCTIVITIS
- c) Hyper myopia

5> When an image is formed behind the retina, the eye defect caused is

- a) Shortsightedness
- b) Astigmatism
- c) LONG SIGHTEDNESS
- d) Color blindness

6>



What is the equivalent capacitance?

- A) $C_T = C_1 + C_2 + C_3$
- b) $C_T = 1/C_1 + C_2 + C_3$
- c) $C_T = C_1 + C_2 + 1/C_3$
- d) $C_T = 1/C_1 + 1/C_2 + 1/C_3$

7> The radius of a curvature is given by the equation

- a) $r = f/2$
- B) $R = 2F$
- c) $r = f^{1/2}$
- d) $r = 2/f$

8> _____ is used to check the balance position of the sphere meter

- a) Pin
- b) Thread
- C) THIN PAPER
- d) Clamp

9> When a sphere meter is placed on a plane mirror, _____ no of legs touches the mirror surface

- a) 2
- b) 3
- C) 4
- d) 5

10> _____ The lens of a focal length 15cm forms an erect image which is three times the size of the object, calculate the power of the lens

- a) 5cm
- b) 15cm
- c) 0.667cm
- D) 0.0667cm

11> _____ An object is placed 15cm in front of a convex mirror and the image is produced 5cm behind the mirror. The focal length of the mirror is

A) $-15/2\text{cm}$

b) $15/2\text{cm}$

c) $-15/4\text{cm}$

d) $15/4\text{cm}$

12> The least distant for distinct vision is

a) 10cm

B) 25cm

c) 30cm

d) 45cm

13> When an object is placed before 2F the image formed are

I. Real

II. Erect

III. Diminished

IV. Inverted

a) I, II, III

B) I, III, IV

c) II, III, IV

d) All of the above

14> Which of these is true about the focal length of converging lens

A) THE FOCAL LENGTH IS ALWAYS POSITIVE

b) The focal length is always negative

c) Either negative or positive

15> When the image distance of an object is negative, the image form is

a) Real

b) Diminished

c) Inverted

D) VIRTUAL

16> When the edge of a lens is thicker than its center, this is known to be

a) Convex lens

b) CONCAVE LENS

c) None of the above

d) All of the above

17> All these are types of errors except

a) Systematic error

b) Random error

c) Erratic error

d) RULE ERROR

18> The frequency f of a wire, which at resonance is equal to the frequency f of the turning fork, is given by the relation

a> $1/2L(T/M)^{1/2}$

b> $\frac{1}{2}(T/M)^{1/2}$

c> $1/2l(M/T)^{1/2}$

d> $\frac{1}{2}(M/T)^{1/2}$

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