

Examrace

Exercise for Physics – Basic Questions up to Class 10 Important for Exams – Must Know Logics Part 3

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23. Who among the following laid the foundation of nuclear science in the country?

- (a) Vikram Sarabhai
- (b) Homi J Bhabha
- (c) MGK Menon
- (d) Raja Ramanan

Ans: (b)

24. Match the following

List – I Scientist	List – II Contribution
A. SN Bose	1. Theory of numbers
B. S Chandrasekhar	2. Elementary particles, statistics
C. S Ramanujan	3. Astronomy
D. Aryabhata	4. Theory of black hole
<i>Match the Following</i>	

- (a) 2 1 4 3
- (b) 4 3 2 1
- (c) 2 4 1 3
- (d) 3 1 4 2

Ans: (c)

25. In our houses we get 220V AC, what does the value 220 represent?

- (a) Constant voltage
- (b) Effective voltage
- (c) Average voltage

(d) Peak voltage

Ans: (b)

26. The quality of a sound depends upon the

I. size of the vibrating body

II. material of the vibrating body

III. overtones produced

IV. shape of the vibrating body

Choose the Correct Option:

(a) I, II, and III

(b) I, II, III and IV

(c) I and III

(d) II, III and IV

Ans: (b)

27. Of the following, the one representing a physical change is the

(a) rusting of iron

(b) freezing of water

(c) burning of coal

(d) souring of cream

Ans: (b)

28. If the temperature of a semiconductor raises, its resistivity will

(a) increase

(b) decrease

(c) remain constant

(d) reduce to zero

Ans: (b)

29. Superconductivity results when matter is

(a) heated to very high temperature

(b) compressed to very high pressure

(c) subjected to very low pressure

(d) cooled to very low temperature

Ans: (d)

30. Consider the following electromagnetic waves

1. X-rays
2. γ -rays
3. microwaves
4. radio waves

What is the correct sequence in the order of their increasing energy?

- (a) 4,3, 1,2
- (b) 1,3, 2,4
- (c) 4,2, 1,3
- (d) 1,4, 3,2

Ans: (a)

31. The stars twinkle in the night because?

- (a) The unit light intermittently
- (b) The star's atmosphere absorbs light intermittently
- (c) The earth's atmosphere absorbs light intermittently
- (d) The refractive index of the air in atmosphere fluctuates

Ans: (d)

32. Mica is used in an electric iron because it is a?

- (a) good conductor of electricity
- (b) bad conductor of electricity
- (c) good conductor of heat
- (d) bad conductor of heat

Ans: (b)

33. Which of the following are phenomenon exhibited by sound waves?

1. Reflection
2. Refraction
3. Interference

4. Polarization

5. Diffraction

Choose the Correct Option:

(a) 1,2, 3,4

(b) 1,2, 3,5

(c) 1,3, 4,5

(d) 2,3, 4,5

Ans: (b)

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