

DPP

DAILY PRACTICE PROBLEMS

CLASS : XIITH
DATE :

SUBJECT : PHYSICS
DPP NO. : 9

Topic :- Atoms

This section contain(s) 0 questions numbered 1 to 0. Each question contains STATEMENT 1(Assertion) and STATEMENT 2(Reason). Each question has the 4 choices (a), (b), (c) and (d) out of which **ONLY ONE** is correct.

- a) Statement 1 is True, Statement 2 is True; Statement 2 **is** correct explanation for Statement 1
- b) Statement 1 is True, Statement 2 is True; Statement 2 **is not** correct explanation for Statement 1
- c) Statement 1 is True, Statement 2 is False
- d) Statement 1 is False, Statement 2 is True

1

Statement 1: Bohr had to postulate that the electrons in stationary orbits around the nucleus do not radiate.

Statement 2: According to classical physics all moving electrons radiate.

2

Statement 1: The different lines of emission spectra (like Lyman, Balmer etc) of atomic hydrogen gas are produced by different atoms.

Statement 2: The sample of atomic hydrogen gas consists of millions of atoms.

3. Match the appropriate pairs from Lists I and II.

Column-I

Column- II

(A) Nitrogen molecules

(p) Continuous spectrum

(B) Incandescent solids

(q) Absorption spectrum

(C) Fraunhofer lines

(r) Band spectrum

(D) Electric arc between iron rods

(s) Emission spectrum

CODES :

	A	B	C	D
a)	c	a	b	d
b)	b	a	d	c
c)	d	a	b	c
d)	a	c	d	b

4. Match the following lists.

Column-I

Column- II

(A) Burning candle

(p) Line spectrum

(B) Sodium vapour

(q) Continuous spectrum

(C) Bunsen flame

(r) Band spectrum

(D) Dark lines in solar spectrum

(s) Absorption spectrum

CODES :

	A	B	C	D
a)	c	a	b	d
b)	c	b	a	d
c)	b	c	a	d
d)	b	a	c	d

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