

Analysis of Frequently asked 5 mark questions in PHYSICS in the Board examination (March 2006 to October 2012

S.N	Question	M6	J6	O6	M7	J7	O7	M8	J8	O8	M9	J9	O9	M10	J10	O10	M11	J11	O11	M12	J12	O12	TOT no
1	Properties of electric lines of force				1		1	1						1			1		1		1		7
2	Write any five properties of cathode rays.									1		1											2
3	Write the properties of alpha rays.															1							1
4	Explain the characteristics of X – rays.		1														1						2
5	Origin of X - rays										1							1			1	1	4
6	Principle of RADAR and write its applications.				1									1						1			3
7	Write any five applications of superconductors.									1	1							1				1	4
8	Write any five applications of Photoelectric cells.			1		1		1	1			1								1			6
9	What is an optic fibre? Mention its advantages.					1		1											1				3
10	Merits and demerits of digital communication.	1	1						1			1									1		5
11	Power losses in a transformer.		1	1									1		1	1	1						6
12	Explain the spectral series of hydrogen atom.	1												1	1					1			4
13	Induced EMF by changing the area of the coil.					1	1			1	1											1	5
14	State and prove Brewster's law.		1	1		1			1		1				1							1	7
15	Write a note on pile of plates.	1										1											2
16	Write a note on Nicol prism.				1								1						1				3
17	Obtain Bragg's law.								1				1						1				3
18	State the laws of Photoelectric emission.				1						1						1	1					4
19	Derive Einstein's Photoelectric equation.	1	1									1	1	1	1						1		6
20	de Broglie wavelength of matter waves.			1	1						1				1	1		1			1		7
21	Explain the wave mechanical concept of atom						1																1
22	Explain length contraction.	1						1						1		1			1				5
23	Explain time dilation.		1						1														2
24	Explain the latitude effect of cosmic rays.						1						1										2
25	Explain the cosmic ray shower																				1		1
26	State and prove De Morgan's theorem.	1		1									1	1		1			1				6
27	state and explain Kirchoff's second law.					1																	1
28	Explain the function of FM transmitter.									1			1		1			1				1	5
29	Explain the function of AM radio transmitter.						1																1
30	Verification Faraday's first laws of electrolysis.																						0
31	Verification Faraday's second laws of electrolysis.		1					1	1				1				1						5
32	Construction and working of Photoemissive cell.									1													1
33	Construction and working of Daniel cell.									1		1			1		1						4
34	Construction and working of Leclanche cel.					1																1	2
35	Explain the principle of a potentiometer.						1																1
36	Condition for balancing of Wheatstone's bridge.	1	1	1				1				1		1									6
37	Comparison the e.m.f.s- potentiometer.				1											1			1	1			4
38	Conversion of galvanometer into an ammeter.							1													1		2
39	Half wave rectifier																	1		1			2
40	Conversion of galvanometer into a voltmeter.													1				1		1			3
Total no of questions in each Board paper		7	8	6	6	6	6	7	6	6	6	7	7	8	7	6	6	6	8	6	6	7	6.57143
	Yearwise Board paper	M6	J6	O6	M7	J7	O7	M8	J8	O8	M9	J9	O9	M10	J10	O10	M11	J11	O11	M12	J12	O12	AVG