



# Sri Chaitanya IIT Academy, India

A.P, TELANGANA, KARNATAKA, TAMILNADU, MAHARASHTRA, DELHI, RANCHI

A right Choice for the Real Aspirant

ICON CENTRAL OFFICE, MADHAPUR-HYD

Sec: Sr. IPLCO

JEE ADVANCED

DATE : 09-08-15

TIME : 02:00 AM TO 05:00 PM

2013\_P2 MODEL

MAX MARKS : 180

## KEY & SOLUTIONS

### PHYSICS

1	ABD	2	ABC	3	AC	4	BCD	5	AC	6	BCD
7	ABC	8	BC	9	A	10	D	11	A	12	D
13	D	14	B	15	D	16	B	17	A	18	A
19	C	20	A								

### CHEMISTRY

21	ACD	22	ACD	23	ABC	24	A	25	B	26	ACD
27	ABC	28	D	29	A	30	A	31	D	32	D
33	D	34	C	35	C	36	B	37	C	38	D
39	C	40	B								

### MATHEMATICS

41	ABC	42	BC	43	BD	44	ABC	45	ABCD	46	D
47	ABC	48	AC	49	B	50	C	51	C	52	B
53	B	54	C	55	B	56	A	57	B	58	D
59	A	60	C								

**PHYSICS**

1. Conceptual
2. Conceptual
3. Conceptual
4. Conceptual
5. Conceptual
6. Conceptual
7. Conceptual
8. Conceptual
9. Max<sup>m</sup> common acceleration up to time for

$$\mu_s = N = ma_{\max}$$

$$\mu_s mg = m(2l \in t_1) \quad \therefore \mu_s = \frac{2kt_1}{g}$$

10. Increase in speed of plank from  $t_1$  to  $t_2$  is same as increase in speed of block from  $t_1$  to  $t_3$
11. Conceptual
12. Conceptual
13. Conceptual
14. Conceptual
15. Conceptual
16. Conceptual
17. Conceptual
18. Conceptual
19. Conceptual
20. Conceptual