



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
TIME : 3:00

JEE ADVANCED
2013_P1 MODEL

DATE : 09-08-15
MAX MARKS : 180

KEY & SOLUTIONS

PHYSICS

| | | | | | | | | | | | |
|----|----|----|-----|----|------|----|---|----|----|----|-----|
| 1 | A | 2 | C | 3 | C | 4 | A | 5 | B | 6 | B |
| 7 | B | 8 | B | 9 | C | 10 | B | 11 | AD | 12 | BCD |
| 13 | AC | 14 | ABD | 15 | ABCD | 16 | 2 | 17 | 5 | 18 | 3 |
| 19 | 6 | 20 | 6 | | | | | | | | |

CHEMISTRY

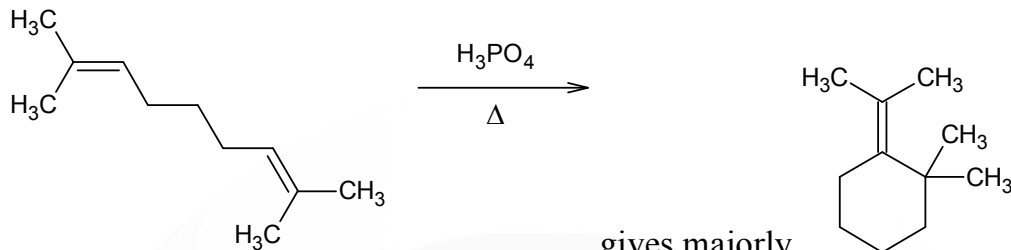
| | | | | | | | | | | | |
|----|------|----|----|----|-----|----|---|----|------|----|---|
| 21 | D | 22 | C | 23 | C | 24 | B | 25 | D | 26 | C |
| 27 | B | 28 | A | 29 | D | 30 | D | 31 | ABCD | 32 | A |
| 33 | ABCD | 34 | CD | 35 | BCD | 36 | 1 | 37 | 1 | 38 | 6 |
| 39 | 9 | 40 | 6 | | | | | | | | |

MATHEMATICS

| | | | | | | | | | | | |
|----|-----|----|----|----|---|----|---|----|-----|----|------|
| 41 | B | 42 | A | 43 | D | 44 | B | 45 | D | 46 | B |
| 47 | A | 48 | A | 49 | C | 50 | B | 51 | ABC | 52 | ABCD |
| 53 | ABD | 54 | BC | 55 | B | 56 | 3 | 57 | 1 | 58 | 5 |
| 59 | 4 | 60 | 2 | | | | | | | | |

CHEMISTRY

21. Propyne reacts with methyl magnesium bromide in dry ether forms



22. gives majorly

23. Terminal alkynes does not react with $\text{Na} / \text{liq. NH}_3$

24. $\text{Br}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{Br} \xrightarrow{?} \text{H}-\text{C}\equiv\text{C}-\text{H}$ is possible by

Alcoholic KOH followed by NaNH_2

25. 2,3- dimethyl butanedioic acid on electrolysis gives but-2-ene

26. Heats of combustion \propto stability

27. Carbocation is involved in rearrangement

28. Carbocation is involved in rearrangement

29. To become stable(aromatic) H^+ is added at C-5 position

30. 1,4-Elimination

32. Propyne gives aqueous soluble salt with NaNH_2

33. Freeradical substitution

34. Crossover additions does not observed on unsymmetrical diene

35. (B),(C),(D) are stereo selective reactions

36. $\text{H}_3\text{C}-\text{CH}=\text{CH}_2 \xrightarrow[\text{ROOR}]{\text{HBr}}$ is free radical addition reaction

37. Lemonene has 11 hyperconjugations (involving C-H bonds)

38. Rigid trans diene(s) does not acts as diene(s) in Diels-Alder reaction

40. Pair of diastereomers pocessess different boiling points