

Question Bank 2

1. Discuss the postulates of MOT. (2016 -17)
2. Draw the MO diagram of N_2 , O_2 , CO , NO molecule & calculate its bond order ? Describe its nature . (2016 -17) (17 - 18) (13 – 14) (15- 16)
3. Draw the molecular orbital diagram of HF . Calculate bond order and nature. (13-14)
4. Explain MOT in case of metals and on bases differentiate between conductor , semi-conductors , insulators. (2017 – 18)
5. What is liquid crystal & distinguish between nematic & smectic liquid crystal with application. (14-15) (15-16) (13 – 14) (16-17) (17 – 18)
6. Why do we express hardness of water in terms of $CaCO_3$ equivalent ? (15 – 16)
7. Explain basic principle of lime – soda process ? (17-18)
8. What is hardness of water ? Describe zeolite process for making soft water from hard water . (13-14)(15-16)
9. What are ion exchange resins? How will you purify water by using resins ? (2016-17)(15-16)(14-15)
10. Explain reverse osmosis process. (2016-17)(15-16)(14-15)
11. With the help of neat sketch , explain construction principle and working a Bomb calorimeter . (17-18)(15-16)
12. How are polymers classified & explain. (2014-15)
13. What are the necessary conditions for a monomer to undergo condensation polymerization?
14. Distinguish between thermoplastic and thermosetting polymers?
15. What are composites ? Classified properties and advantages?

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