Electrical/III CBSGS/ Conv & Non-conv.
Power for QP Code: NP-18672 [Total Marks: 80 (3 Hours) N.B.: (1) Q. No. 1 is compulsory. (2) Attempt any three from remaining question. (3) Figure to the right indicate full marks. (4) Assume data if necessary & Justify. 1. (a) Explain in brief solarpond. (b) Explain (i) Plant use factor (ii) Load factor (iii) Utilization factor (c) Explain (i) Radio active decay 5 (ii) Half life. Explain (i) Hydrologic cycle 5 (ii) Flow duration curve Explain various factors and effect of functuating load on operation of power plant 10 2. and also explain method to meet fluctuating load. Explain induced drought and forced drought fans in thermal power plant. (a) With a neat diagram explain pulverized coal burners and Fluidised Bed combustion 10 3. system in thermal power plant. (b) Draw a neat layout of Hydroelectric power plant and explain in brief 10 (iii) Penstock (iv) Surge tank Reservoir (ii) Dam Draw a neat diagram of nuclear reactors and explain in brief essential components 10 4. of nuclear reactor. State advantages and disadvantages of Gas turbine power plant. 10 How are Solar collectors classified give brief description of flat plate collector. 10 5. (b) What are the advantages and disadvantages of wind energy & hence explain factors 10 which governs the selection of site for a proposed wind turbine generating system. Write short notes on :-6. 20 Ash handling system Principle of operation of fuel cell Diesel power plant Boiling water reactor (B.W.R.)