## KADI SARVA VISHWAVIDHYALAYA

## **B.E. Semester VI Electrical**

Subject Code: - EE-601 Subject Name: - SWITCHGEAR

Date:- 28/02/2015

Time:- 12:00 pm To 1:30 pm

Total Marks: - 30

Instructions: 1. Answer each section in separate Answer Sheet. 2. Use of scientific calculator is permitted. All questions are Compulsory. 3. Indicate clearly, the options you attempt along with it's with respective question number. 4. Use the last page of main supplementary of rough work. 5. (A) State and explain various Arc interruption theories. 0.1 (B) Define (i) Breaking capacity (ii) Making capacity (iii) Recovery voltage (iv) Ristriking voltage (v) short time rating (A) What are the different types of air blast circuit breaker? Also state the difference between Q.2 5 (B) The specification of oil C.B is given as, 1500amps, 1000mva, 33kv, 3 second, 3phase system. 5 a. rated normal current Find: b. rated making current c. rated symmetrical breaking current d. short time current rating. OR (A) What are the various duties of circuit breaker. 5 (B) State the function of reactors in power system? Discuss their advantage. **Q.3** (A) Explain working and disadvantage of oil circuit breaker. 5 (B) Write a note on arc phenomenon. 5 (A) Explain construction, operation of Air break circuit breaker. (B) Difference between: (a). Circuit breaker (b). Isolator