

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Switchgear and Protection

Subject Code: 4TE06SGP1

Branch: B.Tech (EE,EEE)

Semester: 6

Date: 13/04/2017

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1

Attempt the following questions:

(14)

- a) The normal frequency voltage available across contact when arc is zero is called.....
(A) recovery voltage (B) restriking voltage
(C) normal voltage (D) none of above
- b) For transformer higher than 500 KVA, which protection will be preferred?
(A) Differential relay (B) impedance relay
(C) Buchholtz relay (D) none of the above
- c) In which protection pilot wire is used?
(A) distance protection (B) unit type
(C) non-unit type (D) back up protection
- d) Plug setting of a relay can be altered by varying
(A) air-gap of magnetic path (B) no. of ampere-turns
(C) adjustable back up stop (D) none of these
- e) The arcing contacts in a circuit breaker are made of
(A) copper tungsten alloy (B) porcelain
(C) electrolytic copper (D) aluminum alloy
- f) Circuit breakers usually operate under
(A) steady short circuit current (B) sub transient state of short circuit current
(C) transient state of short circuit current (D) none of these
- g) What is the purpose of back up protection?
(A) To increase the speed (B) To increase the reach
(C) To leave no blind spot (D) To guard against failure of primary
- h) What is the making to breaking current ratio for an extra high voltage circuit breaker?
(A) more than 1 (B) equal to 1
(C) less than 1 (D) a negative value
- i) SF₆ is which type of gas?
(A) Electro positive (B) Electro negative



