

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C. U. SHAH UNIVERSITY

## Winter Examination-2019

Subject Name : Inter Connected Power System

Subject Code : 4TE07ICP1

Branch: B.Tech (Electrical)

Semester : 7

Date : 18/11/2019

Time : 10:30 To 01:30

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 incremental fuel cost ( $dc_i/dP_{gi}$ ) is useful for calculation of plant output. The above statement is True/False. (Select the proper option)
- b) State the name of any two thermal power plant located in Gujarat.
- c) Black out means \_\_\_\_\_. (Total Power Failure/ Dark time maintenance)
- d) Cascaded tripping means one generating station will force the other generating station to shut down because the load demand can not be matched by all the generating station in operation.  
(The above statement is True/False)
- e) Islanding means the generating stations is \_\_\_\_\_. (separated from the system, located on the island)
- f) The Lagrangian multiplier is a term related to co-ordination equation. The above statement is True/False. (Select the proper option)
- g) For inter state power transfer the critical parameter for monitoring is \_\_\_\_\_. (Frequency/Voltage)
- h) If a Patton's security function value is less than MTIL then unit schedule is ----- (modified/unchanged.)
- i) The Lagrangian multiplier for each generating unit Should be \_\_\_\_\_. (Same/Different)
- j) State the location of any two solar power plant in Gujarat.
- k) In the CONTROL AREA All the generators speed up and slow down together. The above statement is True/False. (Select correct option)
- l) Name the location of 400 kV substation in Surendranagar District.
- m) The penalty factor account for the losses of the transmission line when economical dispatch of the generating unit is to be considered. The above statement is ( true/false).
- n) State the location of any two hydro plant located in Gujarat.



