SG EEE A Difference leaders an and the difference of a differe

May j) Explain diffedent types of current limiting reactors ? Significance? where are they located?

APP 2) Find the expression for three phase power in terms of symmetrical Components

3) APRIL 2018 QP

4) Prove that symmetrical components transformation is power invariant

5) What are the effects of faults in Power system

6) Explain symmetrical fault and why its calculation is necessary.

7) How will you draw a reactance diagram when the single line diagram of a power ystem is given.

1019 8) Draw the zero sequence networks of Star-delta and delta-delta transformers.

May 9) Define the term Per unit quantity. Medits, demedits ?

10) May 2019 ap

- 1) Define per unit représentation of electrical quantities? List aut its advantages.
- 12) Explain shout civicuit MVA and its significance in analysing faulls in power system.

(3) Explain the significance of symmetotical components in power system.
(4) Devive the expression for fault current and draw the interannection of sequence networks for line to line fault on the terminals of an unloaded generator.

(5) Symmetoical and unsymmetoical faults.

Module 3,4 - Court a ni sourt salle most strick and and the for

APR 1) Classify the Valious types of buses in a power system for load flow studies stad when following that its rainer for (nay) por # 2) Devive the block diagram representation of a generator-load model May 3) Compade between Grauss-seidal method and Newton-Raphson method in load flow studies. a in material well als nation and material fair May 4) with neat diagram explain the working of a turbine speed governing system. May 5) What is automatic Voltage Sigulator (AVR) when such when the when the same 6) What are the main functions of load frequency controller in Power system APR 2018 T) Explain the Computational placedule for load flow solution using fast APR decoupled load flow method.

8) Statiling from the first principles, obtain the equations of Xeal Power and reactive power used in load flow Moblem.

9) Explain the algorithm for bad flow analysis using Newton-Raphon 10) Direct solution of load flow Problem is not Possible. Why o

May 11) How Slack bus differs from other buses in a Power system? what 2019 is the significance of slack bus in load flow analysis p and 12) APRIL 2018 QP, MAY 2019 QP and is any should all placed (! 13) Explain the basic generator Control loops. 14) Dedive the static load flow equations' for a power system. 15) Automatic Grenebation Control? It's objectives? 2911-11-12. well brief 16) Develop and explain the block diagram of automatic load forevency met ?? Control of anizisolated Power system & nichters and only toon they 17) Witte: down the steps involved in solving load flow equation using. Granss stedel method when voltage controlled buses are absent. (n:912.0) 18) Principle of DC load Flow has a radition of an all of the form

a shi a welfan din Computational Protectivity for loval flow solution Using fast

Module 5,6 mar within the boundary of the book of the

in a hort is the stightlighte of the home will lead think in mail for the at the formation and APPR ) what alle the factors affecting transient stability in Power system? APR # 2) What is Swing equation ? to survey plane touch another two offer of APR #3) Devive the expression for swing equation for a synchronous machine connected to an infinite bus. APR 4) What do you mean by penalty factor as referred to economic operation of Poweld system? and the burger in the house interior (at 114 # 5) Distinguish between economic dispatch and unit Commitment 151. # 6) Explain the diffedent stabilities of a Powell System. # 1) Explain Unit Commitment? List out the Gostaints on unit Commitment. 8) Dedive condition for economic load dispatch neglecting losses. May 2019 9) Define penalty factors and loss coefficients in economic spectation of May 2019 Power System 11302 millings provident by the sun ash that (in May 10) White all methods to implove steady state stability limit of Power system. word the second of the contractions for the

11) How loads are distributed blue units within a plant 12) What is the significance of the Smal unit Constant in unit Commitment problem . I have a probably backed stated at the taken 13) Draw and explain . Power angle curve of a Synchronous machine? 14) Explain Mitial cleaning angle and its significance with Vespect to the stability of a power system. I find the stability of a power system. 15) APR 2018 QP, May 2019 2P APP 16) Explain equal area criterion and state-the assumptions made. ti) dedive the expression for transmission losses as a function of Power . APR 2018 generation motent hand a to still this back the stand of a start of 18) Ezplain the method of Solving Swing equation by Point by Point method. May 19) What is the significance of spinning deserve constitaint in unit commitment 2019 Pooblem? 20) Dedive the egn for penalty factor for optimal system operation 21) List the methods for improving transient stability of Power System. 22) Explain the steady state limit of a Power system with the help of Power angle diagram. # 23) Applications of equal adea contestion.