

**NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.**

<b>Course/Branch</b> : B.E., / EEE	<b>Year / Semester</b> : IV / VII	Format No.	NAC/TLP-07a.13
<b>Subject Code</b> : EE8702	<b>Subject Name:</b> Power System operation and Control	Rev. No.	02
<b>Unit No</b> : I	<b>Unit Name</b> : Preliminaries on Power System Operation and Control	Date	30.09.2020

**OBJECTIVE TYPE QUESTION BANK**

<b>S. No.</b>	<b>Objective Questions (MCQ /True or False / Fill up with Choices )</b>	<b>BTL</b>
1	<p><b>Three major function of power system security</b></p> <p>(A) Economical operation, Economical Dispatch, Load scheduling                      (B) State Estimation, Economical Dispatch ,Generation Scheduling                      (C) <b>System Monitoring, Contingency analysis, Security constrained OPF</b>                      (D) None of above</p>	L1
2	<p><b>Load forecasting is a method</b></p> <p>(A) <b>To estimate the load for future</b>                      (B) To real time load estimation                      (C) Both a and b                      (D) None of the above</p>	L2
3	<p><b>The load curve describe</b></p> <p>(A) Generation with respect to load                      (B) <b>Variation of load with respect to time</b>                      (C) Generation with respect to time                      (D) None of above</p>	L2
4	<p><b>Daily load curve divided into how many parts</b></p> <p>(A) One                      (B) <b>Two</b>                      (C) Three                      (D) Four</p>	L1
5	<p><b>Load forecasting is nothing but to estimate</b></p> <p>(A) Deterministic part                      (B) Stochastic part                      (C) <b>Both a and b</b>                      (D) None of the above</p>	L3
6	<p><b>In Load forecasting, The present and lead time is represented by</b></p> <p>(A) <math>\sigma, j</math>                      (B) <math>\Pi, k</math>                      (C) <math>X, l</math>                      (D) None of the above</p>	L1

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7	<p><b>Load forecasting method are</b></p> <p>(A) Extrapolation</p> <p>(B) Correlation</p> <p>(C) Combination of a and b</p> <p><b>(D) All of the above</b></p>	L1
8	<p><b>The extrapolation method is based on the</b></p> <p>(A) Curve fitting to present data</p> <p>(B) Extrapolation of past data</p> <p>(C) Extrapolation of present data</p> <p><b>(D) Curve fitting to previous data available</b></p>	L2
9	<p><b>Extrapolation method is also known as</b></p> <p>(A) Error less</p> <p><b>(B) Deterministic</b></p> <p>(C) Curve fitter</p> <p>(D) None of above</p>	L2
10	<p><b>Which of the following method is generally adapted for curve fitting</b></p> <p>(A) Weighted least square</p> <p>(B) Extrapolation least square</p> <p><b>(C) Least square</b></p> <p>(D) None of above</p>	L1
11	<p><b>Which of the following techniques is the basic for extrapolation?</b></p> <p>(A) Square extrapolation</p> <p><b>(B) Parabolic extrapolation</b></p>	L3

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	(C) Exponential extrapolation (D) None of the above	
12	<b>The correlation technique relates system load to</b> (A) Various demographic factors (B) Economic factors (C) <b>Both a and b</b> (D) None of the above	L1
13	<b>What is the disadvantage of correlation methods?</b> (A) Required more past data for analysis (B) Required more data space (C) Less accuracy (D) <b>Load forecasting for demographic and economic factors is difficult</b>	L1
14	<b>What is the limitation of estimation of average and trend term of deterministic part of load.</b> (A) Required more space in computer (B) Required fast computer (C) <b>Data processed may not be adequate for statistics calculation.</b> (D) All of above	L2
15	<b>Which of the following is the simplest form of stochastic time series model?</b> (A) Generalize load modelling (B) Estimation of periodic components (C) Time Estimation (D) <b>Auto-regressive model</b>	L2

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16	<p><b>Kalman filtering algorithm is widely used for</b></p> <p>(A) Short term or very short term load forecasting</p> <p>(B) Long term load forecasting</p> <p>(C) Medium load forecasting</p> <p>(D) Very long term load forecasting</p>	L1
17	<p><b>Limitation of Kalman and prediction techniques</b></p> <p>(A) Required large time to estimate</p> <p><b>(B) Depends on availability of required state variable model of the load data which is not available at starting</b></p> <p>(C) Require more space to data storage</p> <p>(D) All of above</p>	L3
18	<p><b>Which of the following approaches is utilized to overcome the limitation of kalman and prediction method?</b></p> <p>(A) Time series</p> <p>(B) Average and tread term</p> <p><b>(C) Innovation model</b></p> <p>(D) None of the above</p>	L1
19	<p><b>Restructuring in the power industries aims to</b></p> <p>(A) Improve power generation capacity</p> <p><b>(B) To destroy the monopoly in generation and trading sector</b></p> <p>(C) Improve the transmission capacity</p> <p>(D) Improve the power system stability</p>	L1
20	<p><b>Electricity sector restructuring also popularly known as</b></p> <p><b>(A) Deregulation</b></p>	L2

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	(B) Destruction (C) Regulation (D) All of above	
21	<b>Deregulation is done due to</b> (A) Increase private investment (B) Increase efficiency (C) Improve customer satisfaction <b>(D) All of above</b>	L2
22	What is the tariff in case of power system? a) The taxes which a power plant pay to Indian government b) The taxes which a power plant pay to state government c) The taxes which a Power Grid pay to Indian government <b>d) The schedule of rates are charged of supply of electricity for consumers</b>	L1
23	An electricity supplier is charging for the electricity as per the total load connected, fixed number of hours. This type of tariff will be a _____ a) Simple tariff <b>b) Flat demand tariff</b> c) Flat rate tariff d) Block rate tariff	L3
24	What is demand factor of commercial consumers? a) Low b) Low <b>c) High</b> d) More than 1	L1
25	If an industrial consumer consumes 50KW for 4 hours, 300KW for 15 hours and 60KW for 5 hours daily and the tariff rate is Rs 5/KWh. What is the energy consumption in a month of 30 days? <b>a) Rs 750000</b> b) Rs 475000 c) Rs 755000 d) Rs 470000	L3
26	Which statement about simple tariff is true? a) Charges are made as per the total load connected and of fixed duration of use <b>b) Charges are made on the basis of units consumed in a certain period</b> c) Different types of consumers are charged differently d) Charges per kilowatt decreases with increase in unit consumed	L1

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