



Symbol of Secularism
& National Integration

ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Engineering & Technology

DEPARTMENT OF MECHANICAL ENGINEERING

CLASS:- BE ME 1

SEM:- VII

SUBJECT:- PPE

DATE:- / 09 / 2016

DURATION:- 60 min.

MARKS:- 20

CLASS TEST 01

Q.01 Attempt any two: (08 Marks)

- a) Elucidate Current Energy Scenario in India
- b) State and Explain generalised criterion for site selection of Power Plant
- c) Explain Hydrograph, Flow Duration Curve and Mass Curve with neat sketch

Q.02 Attempt any two: (12 Marks)

- a) Mean weekly discharge at a particular site for 14 weeks which runs 20hrs / day is given below

Month	Discharge m ³ / sec	Month	Discharge m ³ / sec
1	100	8	1050
2	200	9	600
3	350	10	950
4	400	11	470
5	600	12	650
6	1200	13	1000
7	1000	14	1200

Plot : 1. Hydrograph 2. FDC 3. Mass Curve. Also find avg. power generated by taking overall efficiency 75%. Total head available is 70m.

- b) A hydroelectric power station is supplied water from a reservoir at a head of 40m. If the area of reservoir is 1.8km² and generating 24 MW power, determine the rate at which the water level will fall in the reservoir. Take overall efficiency as 80%
- c) Describe Reheat-Regenerative cycle in detail.