

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE – RAIGAD – 402 103**

Winter End Semester Examination – December 2019

Branch: M. Tech. EPS

Semester: I

Subject:- High Voltage Power Transmission (MTEPS104A)

Marks: 60

Date:- 19/12/2019

Time: 3 Hrs.

Instructions to the Students

1. Each question carries 12 marks.
2. Attempt any five questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

(Marks)

Q.1. With reference to EHVAC Line, discuss the following factors. (12)

- i) Corona bundle conductors
- ii) Clearances in towers.
- iii) Location of ground wire.
- iv) Power transfer ability

Q.2. Explain lightning phenomenon and over voltages due to lightening. (12)

Q.3. Explain Bewley's lattice diagram. (12)

Q.4. Explain insulation co-ordination in a power system (12)

Q.5. State and explain the requirements for satisfactory operation of HVDC link. (12)

Q.6. Write note on corona and its effects on EHVAC line. (12)