

B.E. Electrical (Electronics & Power) Engineering (Model Curriculum) Semester-V  
**TE103A - Human Behavior and Social Science**

P. Pages : 1

Time : Three Hours



**GUG/W/23/13865**

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
  2. Due credit will be given to neatness and adequate dimensions.
  3. Assume suitable data wherever necessary.
  4. Illustrate your answers wherever necessary with the help of neat sketches.
  5. Use of slide rule, Logarithmic tables, Steam tables, Mollier's chart, Drawing instruments, Thermodynamic tables for moist air, Psychrometric charts and Refrigeration charts is permitted.

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|-----------|----|---|----|
| 1.        | a) | What is Human Factors? What are 3 interrelated aspects. Write its categories & factors that an impact on human performance. | 8  |
|           | b) | What is Hierarchy of control? Explain in detail its 5 level with suitable diagram.  | 8  |
| <b>OR</b> |    |   |    |
| 2.        | a) | Explain in brief Dirty Dozen Human Factors in aviation.   | 8  |
|           | b) | What happens when Human factor engineering is not addressed?  | 8  |
| 3.        |    | Write all major features of constitution of India.  | 16 |
| <b>OR</b> |    |   |    |
| 4.        | a) | Write Short Note: Directive principles of state policy.   | 8  |
|           | b) | Write all fundamental duties mentioned in Indian Constitution.  | 8  |
| 5.        | a) | What is bill? What are its types. Explain.  | 8  |
|           | b) | Explain with diagram process how bill becomes an act in 2 <sup>nd</sup> house.  | 8  |
| <b>OR</b> |    |   |    |
| 6.        | a) | Explain Heinrich Domino's Theory.   | 8  |
|           | b) | Write advantages of GST. What are the components of GST? Explain.   | 8  |
| 7.        | a) | Write short note on: Types of Partners.   | 8  |
|           | b) | Differentiate: Public and Private Company.  | 8  |
| <b>OR</b> |    |   |    |
| 8.        | a) | What is commercial bank? Explain its function.  | 8  |
|           | b) | Give diagrammatic representation of Form of Business Enterprise.  | 8  |
| 9.        | a) | What is Economy System? Explain its types.  | 8  |
|           | b) | Write about "Underdevelopment sustains absolute poverty".   | 8  |
| <b>OR</b> |    |   |    |
| 10.       | a) | Explain in detail key indicators of economic development.   | 8  |
|           | b) | What are 3 categories of Economy on basis of income? Explain.   | 8  |

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