

B.E. / B.Tech. Electrical (Electronics & Power) Engineering (Model Curriculum) Semester-V
TE103A / HUMAN1 - Human Behavior and Social Science

P. Pages : 2

Time : Three Hours



GUG/S/25/13865

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.

1. a) What is Human Factor Engineering? Write in detail about type of human factor engineering interfaces. 8

b) Explain Shell model in aviation and their interfaces. 8

OR

2. a) Explain hierarchy of control used in safety measures. 8

b) How human factor is helpful in aviation? Discuss it with proper diagram. 8

3. a) Write short note on Directive Principles of State policy. 8

b) What is Preamble? Discuss its meaning, significance, facts and importance. 8

OR

4. a) Write about following terms: 8

a) Legislative b) judiciary

c) executive d) bureaucracy

b) Discuss Fundamental rights in detail. 8

5. a) Define Parliament. Why do we need Parliament? What happens in parliament of India? 8

b) Differentiate between: Lok Sabha and Rajya Sabha. 8

OR

6. a) Write short note on: 8

i) Ordinary bill ii Money bill

iii) Financial bill iv) Constitution amendment bill

- b) Explain process of how bill becomes act in 2nd House. 8
- 7. a) What is HFACS? Draw HFACS framework and explain. 8
- b) Explain in detail functions of Central bank. 8

OR

- 8. a) Write in brief about Partnership. Discuss its merits and demerits. 8
- b) What are the advantages of GST? How has GST help in price reduction? Explain with example. 8
- 9. a) What is Economy system? Explain its types, pros and cons. 8
- b) Write short note on: 8
 - i) Human Poverty Index
 - ii) Human Development Index

OR

- 10. a) Briefly explain terms associated with measuring of national income: 8
 - i) NNP
 - ii) NDP
 - iii) GNH
 - iv) PCI
- b) Write about composition of GDP in India. 8
