

- Q.5 What is CRO ? Draw its block diagram and explain it.
- Q.6 Draw the block diagram of P.L.C and explain it.
- Q.7 Discuss effect of vibrations and methods to control them in brief.

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**3rd Sem. / Plasting Eng. Chemical Eng./
Rubber Tech.**

Subject : Engineering Fundamentals

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Ampere is the unit of _____
- b) Volt meter is used to measure _____
- c) Unit of power is _____
- d) Define energy _____
- e) Define motor
- f) What is fuse?
- g) Define active component.
- h) What is diode ?
- i) Expand F.E.T
- j) Draw the symbol of or gate.

- k) Define P.L.C
- l) What is binary system
- m) Define toughness
- n) What is cement
- o) Define vibrations
- p) What is leveling
- q) Define foundation
- r) What is brick.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What do you mean by ingredients of brick
 - ii) Explain general method of alignment/leveling
 - iii) Explain different types of foundations.
 - iv) what is brick masonry? Explain.
 - v) Discuss types of foundations in brief

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- vi) write differences between AC and DC.
- vii) Write advantages of electrical energy.
- viii) What is secondary distribution of electricity
- ix) How do we measure D.C. voltage?
- x) What are applications of multi meter.
- xi) Draw the circuit of half wave rectifier
- xii) Draw the symbol of AND gate and write its truth table.
- xiii) Write applications of P.L.C
- xiv) What is A/D convertor
- xv) What is difference between analog and digital system.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain applications of electrical energy.
- Q.4 Explain different types of single phase motors.

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