Technical:

Questions about diac,triac,buck effect etc.

Control systems,synchros,all basics and theoretical

computer NETWORKS: (abt CSMA/CD,bridges,routers,Ieee standards like 802.3,etc.(abt ethernet))

VLSI (CMOS structure, functioning,)

DIGITAL ELECTRONICS

(gates,negative logic,postive logic,nand,counters,etc.)

Sample question:write a particular number in BCD,or hex equivalent etc.)

cominational circuit design(no of gates required etc.)

Electronics:

led bias,tunnel diode bias,fet,bjt,feedback amplifier properties,optoelectronic devices,class c amplifiers,multivibrators,band gaps in Si,Ge.,intrinsic concentration etc.

General:

Abt ozone layer depletion (CFCs) The total efficeincy of a thermal plant.

Communications:

Amplitude modulation,FM Vs. AM.

Antennas :

Director,reflector in yagi uda,microwave frequency ranges,bands, ground wave,sky wave,space wave propagation.

In which media em waves travel faster.

Microprocessor 8085,interrupt structure,architecture,memories,mapping schemes,8255,interrupt controller(8259)(ICW1,OCW etc.) hard disk,floppy disk access times

Mangement Science:

abc analysis(inventory management)

Signals systems:

fourier transfor,sinc functions,convolution

Network theory:

resonant frequency formulae

OP AMPS:

a/d d/a converters,differentiators and integrators,instrumentationamplifiers.

Digital communications:

fdm, tdm I almost covered 95% of the topics.This is as far as I could remember.

About aptitude:

synonyms antonyms comprehension passages aptitude problem solving skills(train probs,loss profit sums,ratios,etc.) word analogies fill in the sentences with the most suitable word type of questions.