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## NTPC General Aptitude Question Papers 2007 free pdf paper

### First 120 question on technical and 50 questions on general aptitude.

1/3 negative marks for all the questions.  
 2 hours exam.(No calculator allowed)  
 Question paper along with the key sheet should be handed over to the invigilator after the end of exam.

#### About the 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 Electronic

(gates, negative logic, positive logic, nand, counters, etc.)  
 Sample question: write a particular number in BCD, or hex equivalent etc.)  
 combinational 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 efficiency 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

#### Management science

abc analysis (inventory management)

**Signals systems:**

fourier transfor,sinc functions,convolution

**Network theory:**

resonant frequency formula

**OP AMPS:**

a/d d/a converters,differentiators and integrators,instrumentation amplifiers.

**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.

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