

# 2008 DRDO Technical Test Paper

DRDO PAPER ON 7th SEPTEMBER AT RAIPUR

I have appeared for DRDO SET exam held on 7th Sep 2008. I belong to Electronics and Communication branch. The paper was not very tough. As given in the DRDO syllabus there were questions from all 8 topics. There were in all 150 questions, 100 technical with a negative marking of 1 per wrong answer and 4 for right one, and 50 from logical, spatial, conceptual, abstract, and numerical reasoning with a negative marking of 0.5 per wrong answer and 2 for right one. Total duration is of 3 hours.

For electronics branch the technical questions include –

- From networks (in all 10-12 questions), some simple circuits were given and current-voltage in some branch was asked.
- On wye-delta formula
- Question on graphs, cut set matrix etc.
- On maximum power transfer theorem and superposition principle.
- From electron devices (in all 4-5 questions), on JFET pinch off voltage formula
- P-well fabrication process
- PIN diode
- Mobility of electron and proton
- From analog (in all 9-10 questions), to find output of a subtractor opamp circuit
- Some diode circuit was given and asked which diode is on and off and the net voltage at output.
- On opamp integrator circuit output.
- From digital (in all 9-10 questions), to find 2's complement.
- One Boolean function was given for reducing.
- On properties of logic families like which family among following has maximum propagation delay etc..
- On resolution formula of ADC-DAC's
- About interrupts in microprocessors, like which one is level or edge triggered.
- No program was given to find output but something was asked about 1 command.
- From signals and systems (in all 7-8 questions), formula based question to find transforms.
- Some function was given and was asked to find whether it is causal, time-variant, linear etc or not.
- From control systems (in all 7-8 questions), 1 on PID controller equation.
- 1 function was given and its signal flow graph was asked.
- On root loci angle formula.
- To find electrical analogue of given mechanical elements, match the column type.
- From communication (in all 9-10 questions), some on mean, power spectral density, probability density function etc...
- To find image frequency in super-heterodyne receiver.
- On SNR.
- 1 to find entropy with given probabilities.
- 1 on GSM.
- From electromagnetics (in all 7-8 questions), on divergence theorem.

- 1 on integral form of Maxwell's equation, we have to choose wrong one out
- Some on plane waves between 2 media.
- Single and multi mode index fiber
- On antenna, to find radiation pattern of given dipole etc.

The questions were mostly formula based and do not require much calculations. The reasoning question includes current affairs, about DRDO products, 10-12th mathematics, English, diagrammatic questions etc..... Some are-

- Where is Sarnath located? Ans- Varanasi (U.P.)
- When was DRDO established? Ans- 1954
- SAMYUKTA is used by whom army, navy or air force? Ans- Army
- HUMSA is used for.
- About 1 type of pea which DRDO has introduced.
- Acrophobia is the fear from what? Ans- Heights
- To find particular solution of given differential equation.
- On A.P., G.P. formula.
- Some on complex numbers.
- Some 4-5 words were given and was asked to find out how many are spelt incorrectly.
- Some questions were to find out punctuation and grammatical errors.
- Some figures were given and rotated in some direction. We have to complete the sequence. Nearly 6-7 questions were there on such spatial reasoning.

My advice is just go through all the topics, do not leave any topics. And refer [www.drdr.org](http://www.drdr.org) regarding DRDO products. Rest reasoning can be done on the spot. Please pay attention to technical part more. Please pray for me.

All the best for other aspirants  
Shilpa