

ONGC Placement Paper on 17th Jun 2007, Delhi

ONGC TEST : 17th June 2007 DELHI...

Branch: Instrumentation Engg.. time : 3 hrs...

One of the toughest paper of ONGC in Indian history.

PAPER PATTERN : Objective type questions : 150 (75 Technical and 75 GK). marking in GK each ques is of 1 mark and in Technical each ques half mark.

Most of technical questions comes from NON-INSTRUMENTATION subjects like microprocessors,, microcontrollers, optical fiber , communication etc.

few ques i remember..

1. no of timers of 8051.
2. no. of interrupts of 8051 excluding reset.
3. Addressing mode of SHLD 2050H.
4. MN/MX pin - multiprocoessor mode.
5. why twisted pair of wires is used in instrumentation ?
6. clock frequency of 8051 microcontroller.
7. cheapest instru-- PMMC, EDM, rectifier, thermocouple.
8. numerical on resolution of ADC
9. numerical on total power transmission in AM
10. interrupt controller
11. dummy strain guage
12. numerical on PCM.
13. materials of core and cladding
14. optical fiber losses.
15. numerical aperture
16. no of comparators in flash converter.
17. potentiometer : it is null or deflecting instrument

18. difference between null and deflecting instrument.

19. is multiplexing used in 8085 or not ?

20. 3-4 questions on optical fiber : data based.

21. calibration of instruments.

22. capacitive transducer : dielectric type.

23. mod 6 counter : no. of FF used.

24. 3-4 ques of instrumentation : data based.

In GK they ask history, economics, current affairs, and ques related to famous personalities.

few ques i remember.

full form of DRDO, NISSAT.

which letter in computer keyboard comes after Q ?

who starts golden quadrilateral project ?

which country never wins bookers prize ?

pulitzer prize : related to which country ?

2-3 ques on GDP growth rate ?

what is present share of service industry in GDP ?

4-5 questions on simple reasoning.

which of the indian govt. bodies decides the electoral of parliament ?

No confidence motion is decided by ?

Powers of president , and chief justice of india

magasayay award: related to which country.

Alongwith these there are subjective questions...

GK : short note on RED CROSS and SAARC : both 5 marks each and u have to write about 100 words

Essay on RABINDRANATH TAGORE or BHARAT RATNA (7 marks)

Technical :

3 ques 5 marks each.

1. numerical on viscosity measurement
2. numerical on efficiency of Class B amplifier
3. CE configuration with voltage divider bias is shown. No resistance values given. Capacitors are connected in input and RE resistor. now u have to find out o/p voltage/

2 questions of 10 marks

1. problem of control system. calculation of rise time, peak time, overshoot. (calculator is not allowed in exam)
2. problem of convolution in DSP.

Next time when ONGC comes, prepare non instrumentation subjects like analog, digital, microprocessor and microcontrollers.

also prepare subjective questions from IES Electronics and Telecommunication Solved papers book.

Prepare GK from magazines like chronicle, CSR, Pratiyogita kiran and GK manual book.

All the best for INSTRUMENTATION ENGINEERS.....