Subject Knowledge Areas

01. Normal Structure and function
   01.01 Chromosome structure
   01.02 Mitosis, meiosis, cell cycle
   01.03 Chromosome gene function
   01.04 Gene location

02. Nomenclature
   02.01 Constitutional
   02.02 Acquired
   02.03 FISH

03. Pathogenesis
   03.01 Non disjunction
   03.02 Unequal crossing over
   03.03 Abnormal segregation
   03.04 Mosaicism
   03.05 Other (ring, SCE, breakage, isochromosome, X-inactivation)

04. Laboratory techniques/applications/interpretation issues
   04.01 Techniques
   04.02 Applications
   04.03 Test interpretation issues

05. Laboratory management
   05.01 QA/QC
   05.02 Ethical/legal
   05.03 Laboratory safety

06. Clinical Syndromes
   06.01 Constitutional
      06.01.01 Trisomy
      06.01.02 Monosomy
      06.01.03 Microdeletion/duplication
      06.01.04 Deletion
      06.01.05 Duplication
      06.01.06 Other
   06.02 Acquired
      06.02.01 Leukemia
      06.02.02 Lymphoma
      06.02.03 Solid tumor
      06.02.04 Other

Tasks: Application of Knowledge

G. General
   G.01. background information
G.02.  problem solving
G.03.  Technical issues

I.  Interpretation
   I.01.  Phenotype
   I.02.  Differential
   I.03.  Prognosis

R.  Recommendations
   R.01.  Follow-up testing
   R.02.  Problem solving