

FINAL EXAM
DECEMBER 2017

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MEDICAL GENETICS PAPER-II

GENE/D/17/53/II

TIME : 3 HOURS MAX. MARKS : 100

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space
- Answer all the parts of a single question together.
- Start the question to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write Short notes on:

1.	b.	What are spino-cerebellar-ataxias (SCA)? How are different varieties inherited? How do you diagnose the common varieties in the laboratory?	5+3+2
2.		What are the causes of stroke in young? Discuss approach to diagnosis of a 26 year male with stroke.	4+6
3.		What are autosomal recessive congenital icthyosis (ARCA)? How will you counsel the family of a baby born with ARCA?	6+4
4.	b.	How do you clinically diagnose achondroplasia? How will you confirm the diagnosis by molecular testing? What surveillance protocol and management issues you will discuss with the family?	4+2+4
5.		What are the common causes of developmental delay in a child? What will be your counseling issues for prenatal testing in next pregnancy for the family with a child with Down syndrome	5+5
6.		What are the different methods of aneuploidy screening during pregnancy? Mention the advantages and disadvantages of NIPT (Non-invasive prenatal testing).	6+4



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7.	What are the causes of recurrent spontaneous abortions in a couple? How will you counsel a couple with one partner being carrier of a 'balanced translocation'?	6+4
8.	What are the different soft-markers of aneuploidies detected by fetal ultrasound? How will you investigate for non-immune fetal hydrops?	4+6
9.	What are the different invasive methods for prenatal testing? Mention the procedure and indications of each of them.	3+7
10.	 What are the different causes of indirect hyperbilirubinenia in a new born? How will you investigate and counsel a couple who has history of a previous baby who died at 2 month of age with jaundice and neurological signs?	4+6