

Tanta University,  
Faculty of medicine,  
Public health department

1<sup>st</sup> part master and diploma degree  
of Neurology and Psychiatry  
Subject: (Genetics) , 25 degree total

13 April 2013

**Time allowed one hour**



**1- Discuss briefly primary prevention of genetic Neurological disorders .  
(10 degrees)**

**2- Enumerate two of the following: (2 degree for each)**

- a) Causes of single gene mutation**
- b) Effects of genetic disorders on society**
- c) Features of dominant inheritance**
- d) Characteristics of screening tests**
- e) Methods of rehabilitation**

**3- Summarize the measures for prevention of phenylketonuria.  
( 5 degree)**

**Good Luck**

Tanta University,  
Faculty of medicine,  
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1<sup>st</sup> part master & diploma degree  
of ENT and Master of Audiology  
(Genetics and Biostatistics)



8 April 2013

Time allowed one hour

1-Differentiate between: (5 degrees)

- A. Criteria of Autosomal dominant disorders and Autosomal recessive disorders.
- B. Etiology of single gene disorders and of chromosomal disorders.

2- Enumerate Two of each of the following: (5 degrees)

- A. Topics for health education needed for primary prevention of genetic disorders.
- B. Causes of genetic illiteracy in Arab countries.
- C. Steps of genetic counseling
- D. Characteristics of the screening test
- E. Purposes of genetic testing.

3- Mention steps of secondary prevention of genetic disorders with discussion of techniques of gene therapy ( 5 degrees)

4- Deduce risk of inheritance of an autosomal dominant disorder to the family members of a proband. (2.5 degree)

5- The following table shows the distribution of results of the final exam in ENT of 100 medical students (55 students from Tanta University and 45 students from Cairo University). (7.5degrees)

Results	University		Total
	Tanta	Cairo	
Succeeded	36	34	70
Failed	19	11	30
Total	55	45	100

Is there was an association between the results of the exam and location of the university?.

Good Luck