

**WGU D115 OBJECTIVE ASSESSMENT (OA) EXAM 2023-2024
COMPLETE UNIT 1-UNIT 7 QUESTIONS AND CORRECT
DETAILED ANSWERS WITH RATIONALES (VERIFIED
ANSWERS) |ALREADY GRADED A+**

Amniocentesis is recommended for pregnant women with what history?
- ANSWER- **Have a family history of genetic disorders**

What is the technique for prenatal diagnosis of chromosomal abnormalities at 10-12 weeks gestation? - ANSWER- **Chorionic villus sampling CVS**

Amniocentesis during the 15th week of pregnancy

What is the term used for an error in which homologous chromosomes fail to separate during meiosis or mitosis? - ANSWER- **Nondisjunction**

What is the most common cause of Down Syndrome? - ANSWER- **Maternal nondisjunction**

embryo now has three copies of chromosome 21

What syndrome, characterized by an absent homologous X chromosome with only a single X chromosome, exhibits features that include a short stature, widely spaced nipples, and webbed neck? - ANSWER- **Turner**

A person with 47, XXY karyotype has the genetic disorder resulting in which syndrome? - ANSWER- **Klinefelter: males**

How is transcription best defined? - ANSWER- **RNA is synthesized from a DNA template**

Process where the information in a strand of DNA is copied into mRNA

How is translation best defined? - ANSWER- **Follows transcription**

mRNA leaves nucleus and enters cytoplasm

RNA directs the synthesis of a polypeptides for protein synthesis

An amniocentesis indicates a neural tube defect when an increase in which protein is evident? - ANSWER- **Alpha fetoprotein**

Ex: spina bifida or anencephaly

When a child inherits a disease that is autosomal recessive, it is inherited from whom? - ANSWER- **Both parents**

In order to have a disorder that is autosomal recessive a pt must inherit two mutated genes, one from each parent

Cystic fibrosis is caused by what type of gene? - ANSWER- **Autosomal recessive**

The BRCA1 and BRCA2 mutations increase the risk of which cancer in women? - ANSWER- **Ovarian, breast, and pancreatic cancers**

Prader-Willi syndrome causes a chromosomal defect that is what? - ANSWER- **Inherited from the father**

Deletion of a part of chromosome 15

Which type of immunity is produced by an individual after either natural exposure to the antigen or after immunization against the antigen? - ANSWER- **Active-acquired immunity**

What type of immunity is produced when an immunoglobulin crosses the placenta? - ANSWER- **Passive-acquired immunity**

Where are antibodies produced? - ANSWER- **Plasma cells**

When B cells are activated from antigens they develop into plasma cells. Those plasma cells then create antibodies specific to said antigen

Which antibody initially indicates a typical primary immune response? - ANSWER- **IgM which is found mainly in blood and lymph fluid**

First antibody that body makes when fighting a new pathogen

The Common hay fever allergy is expressed through a reaction that is mediated by which class of immunoglobulins? - ANSWER- **IgE**

Also releases histamine

What are blood transfusion reactions an example of? - ANSWER- **Alloimmunity**

Type of immunity that produces an immune response against antigens from members of the same species

Also happens with transplants

What is true of immunodeficiency? - ANSWER- **Immunodeficiency is generally not present in other family members**

Mostly from extrinsic factors

A healthcare professional advises patients to exercise because it has probably impact on reducing which cancer? - ANSWER- **Colon**

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