

## **Questions bank**

### **Genetics-3 rd-2<sup>nd</sup> semester-**

**Asst prof-Dr-Kazhal M. Sulaiman**

#### **Biology Dep.**

**Q1//** What is the differences between Mutagenesis and carcinogenesis

**Q2-** Explain by figure silent mutation

**Q3//** What is the functions of genetic material

**Q4-**Two major genes are involved in carcinogenesis , Explain

**Q5-**What is the function of tumor suppressor gene TP53

**Q6-** Explain how teratogen interference with nucleic acids

**Q7-** What is DNA made of and where is DNA found?

**Q8-** What is the function of phosphodiester bond in DNA ?

**Q10-** Carcinogenesis typically results from a series of mutations that affect regulation of proliferation. Explain.

**Q11-**What is Fetal Alcohol syndrome ( FAS ) ?

**Q12-**Give the name of the genetic diseases that results from those abnormalities.

**A-XXX**

**B-X0**

**C-XYY**

**D-XXY**

**E-47,13+**

**Q11-**What is GMF

**Q12-** Explain genetherapy-importance.

**Q13-** What is recombinant DNA technology.

**Q14-** Who Insulin produced by recombinant technology

**Q15-** Define

**Q16-** Hybrydization-Sequencing-Genome-FISH Technique-Exvivo geneTherapy.

**Q18- How** chromosome specific probes work?

**Q19-** What is Locus/gene specific FISH probes

**Q20-** Explain the experiment that proof DNA as genetic material.

**Q22-** Fill in the blank:-

1-The first step in a chromosome analysis requires ----- . For example, peripheral blood and fetal blood samples must be placed in tubes containing -----  
- to prevent clotting,  
whereas fetal tissues should be placed in -----to prevent  
dehydration.

2- In vivo genetherapy is-----

**Q23-** Gene Transfer to non-target species ,**How?**

**Q26-** How to make a DNA fingerprint?

**Q27-** Gene cloning requires specialized tools and techniques?

**Q28-** Give Examples of GMO's

**Q29-** Explain SOURCES OF SPECIMENS FOR CHROMOSOME ANALYSIS

**Q30-** Why FISH?

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