

## Serotonin 2017

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1.separation the two template of dna in replication done by?

Helicase

2.which type of the histone bind nucleosome to dna? H1

3.the content of A-T is 40%,, what is the amount of Guanine? **%30** 

4. which of the following pairs of structure has the same amount of dna?

A.an unreplicated chromosome and chromatid

B.a replicated chromosome and a sister chromatid

C.a replicated chromosome and a bivallent

D.an unreplicated chromosome and a bivalent

Answer:A

5. with regard to their chromosomes, what is a major difference between prokaryotes and eukaryotes?

Eukaryotes have linear chromosome while most prokaryotes contain a single circular chromosome

6.the spindle fibers associated with? Kinetochore

7.what is the application of the karyotype?
Genatic disorders caused by chromosomal rearrangement can be Identified

8.characteristic of mitochondria?

Does not reshuffle from one generation to next

9.difference between G1 and G2 phases?
Chromosome in G2 has 2 linear pieces of dna while G1 has one

10.Clinical case, symptoms include;cardiovascular issues,sexual retardation and webbed neck?

Turner syndrome

11.where would you find telomeres? Human chromosome

12.the repair system when we remove base segment from Ecoli? Nucleotide excision repair

13.we can take a DNA sample from all of this except?. RBCs

14.the major groove of C;G?

15.the correct nitrogen bases sequence in human's telomeres is?
TTAGGG

16.removing the supercoiling in DNA replication done by? **Topoisomerases** 

17.the DNA ligase in DNA replication;
Make phosphodieaster bond between 3-oh from okazaki and 5-p from next lagging strand

18.removing the primer done by?
Rnase

19.which of the following is not true about Z-DNA?

Major groove narrow but very deep

20. about helix – turn – helix.?

A2 and a3 are held together at about 90 degree to each other by four amino acid

## **FINAL**

## 1.which of the following statement is correct?

A.Cell communicate with one another in multicellular organisms usin g extracellular signaling molecules or hormones

B..Cell communicate with one another in unicellular organisms using extracellular signaling antigen and antibody

C..Cell communicate with one another in multicellular organisms using intracellular signaling molecules only

D..Cell communicate with one another in unicellular organisms using extracellular signaling antigen and antibodt

ANSWER: A

2.the binding of ligand to many G-proteins linked receptors leads to?.

A.increase in the concentration of certain intracellular signaling molecules called second messenger
B.decrease in the concentration of certain intracellular signaling molecules called second messenger
C.increase in the concentration of certain intracellular signaling molecules called first messenger

D.decrease in the concentration of certain intracellular

signaling molecules called first messenger

ANSWER:A

3.about thyamine's carbon the correct statement is?
C1 bind to suger ,C2 not binding, C3 ti c1 in adenine ,C4 to c6 in adenine

لا تنسونا من صالح دعائكم مع أمنياتنا بالتوفيق والنجاح "لجنة الطب والجراحة