

Molecular: chromosomes

1 – All the following true about DNA except:

- A – Form from many nucleotides strung together
- B – DNA + protein = chromosomes
- C – DNA is warped around histone core in eukaryotes
- D – T and A bind by 3 hydrogen bonds

Answer: D

2 – Choose the correct option about human cells:

- A – Have 22 pairs of chromosomes
- B – The sex chromosomes in male are XX
- C – The normal number of sex chromosomes is 4
- D – Human has 44 autosomes and 2 sex chromosomes

Answer: D

3 – Choose the false matching:

- A – Prokaryotessingle chromosome + plasmid
- B – EukaryotesDNA found in cytoplasm
- C – Telomeres center of chromosome
- D – B+C

Answer: A

4 – Choose the right option:

- A – Monosomics ($2n + 1$)
- B – Nullisomics ($2n-2$)
- C – Trisomics ($2n-1$)
- D – C+B

ANSWER: B

5 – The normal gametes contain of:

- A – 2 sets of chromosomes
- B – Don't contain any chromosomes
- C – 1 set of chromosomes
- D – 3 sets of chromosomes

Answer: c

6 – The number and appearance of chromosomes in the nucleus of eukaryotic cells. Is

definition of?

- A – Euploidy
- B – Monosomic
- C – Karyotypes
- D – Aneuploidy

Answer: c

7 - **** in which phase we can study the chromosomes as well as we can?

- A – Anaphase
- B – Metaphase
- C – Prophase
- D – Telophase

Answer: B

8 – All the following false except:

- A – In karyotype the chromosomes arranged from the smaller to largest
- B – Female chromosomes formula = 44/XX
- C – In deletion disordered the chromosome became taller
- D – Deficiency in short arm of chromosome 5 cause klinefelter syndrome

Answer: B

9 – **** What is the percentage of abnormal individuals of nondisjunction in meiosis II?

- A – 100 %
- B – 50 %
- C – 75 %

ANSWER: B

10 – About structural chromosomal aberration choose the right one

- A – Chromosome might breakage because of x-rays
- B - **in translocation: parts of 2 **homologous** chromosomes are joined
- C –the paracentric inversion are much less than pericentric
- D – They all right

Answer: A

Syndromes and disordered

1 – All this syndromes happened because of increase in the number of chromosomes except:

- A – Down syndrome
- B – Patau syndrome
- C – Edwards syndrome
- D – Turner syndrome

Answer: D

2 – **** A characteristics of syndrome infect males which there is at least 1 extra X chromosome:

- A – Hearing impairment
- B – Small testes
- C – Cleft lip
- D – A+C

ANSWER: B

3 - **** the number of autosomes in a turner infected female

- A – 45
- B – 44
- C – 1
- D – 46

Answer: B. The number of autosomes will not change .but the sex chromosomes number will.

4 – The syndrome which happen because of extra genetic material on chromosome 13

- A – Patau
- B – Edward
- C – Down
- D – None of the above

Answer: A

5 – The syndrome which the risk of contracting increase with age: ****

- A – Down
- B – Edwards
- C – Patau
- D – turner

Answer: A

Done
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