Many possible answers. Some conditions include. Down Syndrom (trisomy 21)

Patavis Syndrom (trisomy 13)

Edward's Syndrom (trisomy 18)

TACAATCGCTTTGGTAAAACT

TCARScheme

Twiner's Syndrom (monosomy X)

Cri du chat (partial monosomy 5)

Edward's Syndrom (trisomy 18)

TACAATCGCTTTGGTAAAACT
AUGUUAGCGAAACCAUUUUGA mRNA

3 AUGUUAGCGAAACCAUUU UGA codons

met leu ala lys pro phe stop amino acids

met - leu - ala - lys - pro - phe

polypeptide

Structure double-stranded single-stranded
nitogenous bases A,C,G,T uses A,C,G,U
sugar deoxyribose ribose \* that's where its name comes from: Ribonucleic Acid

Similar: Same chromosomes, genes, DNA base sequences. I.e. genetic composition is same
Different: Stem cell has few genes 'turned off' and most of its genes can be freely expressed. Shape is generic-no adaptations.

Lymphocyte has many genes 'turned off' and select genes 'turned on'. For example: genes for antibody production highly expressed.

(6) Many possible answers. Some applications include: Type I diabetes

Parapleoia (spinal

specialized cells are injected into patient

Paraplegia (spinal chord injuries)

Stem cells are mainly used to replace Pockinson's disease

damaged/diseased cells in a patient Stroke

that they otherwise cannot replace / heal Leukemia

Stem cells are horvested, grown and we Born victims

can induce them to differentiate into the Heart disease

type of cell we need in lab. Then the Stargardt's disease