



Trivia Quiz

Your support on Jeans for Genes Days helps the scientists at Children's Medical Research Institute create a healthier future for all children.

This quick quiz is designed for high school science students. Try it for a bit of fun on Jeans for Genes Day or during any science lesson.

1. An X-linked disease is:

- a) Carried on the X chromosome
- b) Causes by an unknown X factor
- c) Carried on a somatic chromosome

2. Oncology is the study of:

- a) Heart disease
- b) Arthritis
- c) Cancer

3. DNA stands for:

- a) Do Not Ask
- b) Deoxyribonuclease
- c) Deoxyribonucleic Acid

4. A genetically altered organism can be called:

- a) Oncogenic
- b) Transgenic
- c) Geriatric

5. How many amino acids are there?

- a) 20
- b) 2000
- c) 15

6. The human genome project is:

- a) Cloning humans
- b) Sequencing human genes
- c) The title of a science fiction novel





7. Drug resistant bacteria:

- a) Are resistant to common antibiotics
- b) Just say no to drugs
- c) Can be killed by common antibiotics

8. Down Syndrome (Trisomy 21) is caused by:

- a) Three sperm fertilising one egg
- b) Three copies of chromosome number twenty-one
- c) One copy of chromosome number twenty-one

9. The cochlear helps us to:

- a) See
- b) Hear
- c) Smell

10. Which vessels return blood to the heart?

- a) Vein
- b) Artery
- c) The Blood bank

11. The DNA molecule is:

- a) A double vortex
- b) A double hepatic
- c) A double helix

12. Leukaemia is cancer of the:

- a) Liver
- b) Blood
- c) Eye

13. A microscope is used to make:

- a) Large objects appear smaller
- b) Small objects appear larger
- c) Distant objects seem close

14. The enzyme reverse transcriptase:

- a) Transcribes RNA to DNA
- b) Transcribes DNA to RNA
- c) Translates RNA to proteins

15. Melanoma (skin cancer) is caused by:

- a) Eating too many melons
- b) Asbestos
- c) Sun exposure

16. Stem cells have the ability to:

- a) Grow into many types of different cells
- b) Form the stem of a plant
- c) Lengthen the brain stem to increase intelligence

17. Antibodies are produced by:

- a) B-lymphocytes
- b) Red blood cells
- c) Fibroblasts

18. A spectrophotometer measures:

- a) The colour spectra in a photograph
- b) Transmission and absorption of sound
- c) Transmission and absorption of light

19. Endocrinology is the study of:

- a) Endothermic reactions
- b) Hormones
- c) Endothelial cells

20. DNA codes for:

- a) Proteins
- b) Di-enes
- c) Protons





21. Which Australian scientist won a Nobel Prize for their work on Penicillin?

- a) Howard Showers
- b) Howard Florey
- c) Peter Doherty

22. Another name for the large intestine is:

- a) Duodenum
- b) Biggus intestinus
- c) Colon

23. Cystic fibrosis is a result of:

- a) A single gene mutation
- b) A chromosomal imbalance
- c) Overgrowth of cysts

24. Insulin secreting cells are found in the:

- a) Heart
- b) Liver
- c) Pancreas

25. The nucleotide adenine (A) is:

- a) A purine
- b) A pyrimidine
- c) The 'A' in DNA

26. Creutzfeldt-Jakob disease and bovine Mad Cow disease are both caused by:

- a) Protozoans
- b) Viruses
- c) Prions

27. The polymerase chain reaction:

- a) Amplifies DNA
- b) Degrades DNA
- c) Translates DNA

28. Muscular dystrophy is characterised by:

- a) Muscle weakness
- b) Muscle growth
- c) Missing muscle groups



29. A technique used to separate DNA pieces according to size is:

- a) Electroporation
- b) Electrophoresis
- c) Electromotion

30. Jeans for Genes raises money for:

- a) The Children's Medical Research Institute
- b) Babies that wear jeans
- c) Jeans designers

Answers: A, C, C, B, A, B, A, B, B, A, C, B, B, A, C, A, A, C, B, A, B, C, A, C, A, C, A, A, B, A