

1. Can you identify the Homology and similarity tool from the options below?

- (a) BLAST
- (b) RasMol
- (c) EMBOSS
- (d) PROSPECT

Solution: (a) BLAST.

2. When was the SWISSPROT protein sequence database initiated?

- (a) 1988
- (b) 1985
- (c) 1986
- (d) 1987

Solution: (d) 1987.

3. Who among the following scientists established the first Bioinformatics database?

- (a) Dayhoff
- (b) Pearson
- (c) Richard Durbin
- (d) Michael.J.Dunn

Solution: (a) Dayhoff.

4. Approximately how many base pairs does the human genome contain?

- (a) 6 billion base pairs
- (b) 5 billion base pairs
- (c) 3 billion base pairs
- (d) 4 billion base pairs

Solution: (c) 3 billion base pairs.

5. Which tool is utilized for motif identification?

- (a) BLAST
- (b) COPIA
- (c) PROSPECT
- (d) Pattern hunter

Solution: (b) COPIA.

6. Can you tell the year when the first molecular biology server expasy was launched?

- (a) 1992
- (b) 1993
- (c) 1994
- (d) 1995

Solution: (b) 1993.

7. What is the process of depositing cDNA into an inert structure called?

- (a) DNA probes
- (b) DNA polymerase
- (c) DNA microarrays
- (d) DNA fingerprinting

Solution: (c) DNA microarrays.

8. What is the term for drug identification through genomic study?

- (a) Genomics
- (b) Pharmacogenomics
- (c) Pharmacogenetics
- (d) Cheminformatics

Solution: (b) Pharmacogenomics.

9. Which compound has desirable properties to become a drug?

- (a) Fit drug
- (b) Lead
- (c) Fit compound
- (d) All of the above

Solution: (b) Lead.

10. What does Proteomics refer to?

- (a) Set of proteins in a specific region of the cell
- (b) Biomolecules
- (c) Set of proteins
- (d) The entire set of expressed proteins in the cell

Solution: (d) The entire set of expressed proteins in the cell.

11. What is the process of finding the relative location of genes on a chromosome?

- (a) Gene tracking
- (b) Genome walking

- (c) Genome mapping
- (d) Chromosome walking

Solution: (c) Genome mapping.

12. What is the computational methodology that attempts to find the best matching between two molecules, a receptor and ligand?

- (a) Molecular fitting
- (b) Molecular matching
- (c) Molecular docking
- (d) Molecule affinity checking

Solution: (c) Molecular docking.

13. Which of the following is not an application of bioinformatics?

- (a) Drug designing
- (b) Data storage and management
- (c) Understand the relationships between organisms
- (d) None of the above

Solution: (d) None of the above.

14. The term “invitro” is a Latin word which refers to?

- (a) Within the lab
- (b) Within the glass
- (c) Outside the lab
- (d) Outside the glass

Solution: (b) Within the glass.

15. What is the stepwise method for solving problems in computer science?

- (a) Flowchart
- (b) Algorithm
- (c) Procedure
- (d) Sequential design

Solution: (b) Algorithm.

16. Who coined the term Bioinformatics?

- (a) J.D Watson
- (b) Pauline Hogeweg
- (c) Margaret Dayhoff
- (d) Frederic Sanger

Solution: (b) Pauline Hogeweg.

17. What is the term for the laboratory work using computers and associated with web-based analysis generally online?

- (a) In silico
- (b) Dry lab
- (c) Wet lab
- (d) All of the above

Solution: (a) In silico.

18. Can you identify the first completed and published gene sequence?

- (a) Φ X174
- (b) T4 phage
- (c) M13 phage
- (d) Lambda phage

Solution: (a) Φ X174.

19. What is the term for the laboratory work using computers and computer-generated models generally offline?

- (a) Insilico
- (b) Wet lab
- (c) Dry lab
- (d) All of the above

Solution: (c) Dry lab.

20. What does computer simulation refer to?

- (a) Dry lab
- (b) Invitro
- (c) In silico
- (d) Wet lab

Solution: (c) In silico.

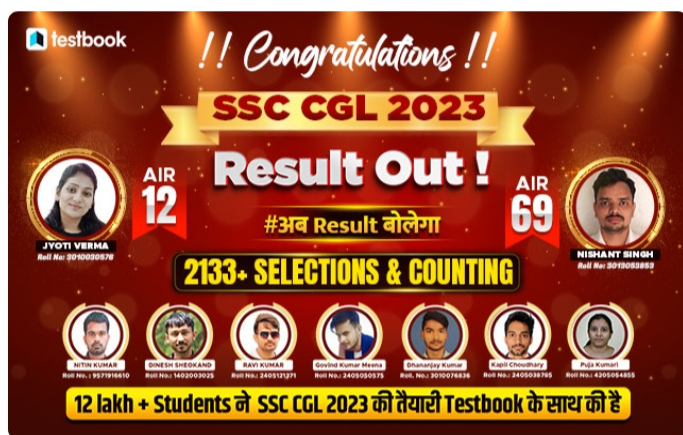
Stay connected with [our Biology section](#) for more MCQs and other Biology related topics.

More Articles for Biology

➤ [MCQs on Vermicomposting - Testbook.com](#)

➤ [MCQs on Liver: Structure, Functions & Diseases | Testbook.com](#)

- [MCQs on Chromosomes - Structure, Function, Types and Disorders](#)
- [MCQs on Mollusca - Testbook.com](#)
- [Understanding Whorl in Biology - Testbook](#)
- [MCQs on Carbohydrate Metabolism - Testbook](#)
- [Mammalia - Characteristics, Classification, and Examples](#)
- [MCQs on Erythropoietin - Testbook.com](#)
- [MCQs On Fibre to Fabric - Testbook](#)
- [MCQ on AIDS - Testbook.com](#)



Crack SSC CHSL with India's Super Teachers

Get 6 Months SuperCoaching @ just

~~₹1499~~ ₹399



Your Total Savings ₹1100

Purchase Now

Want to know more about this Super Coaching ?

[Explore SuperCoaching Now](#)

[Report An Error](#)



The Complete Exam Preparation Platform



Free 20000+
Practice Questions



15000+ MockTest
& Quizzes



Free 2000+ Video
Lessons & PDF Notes

Trusted by 1.5 Crore Students
Download the App From



START LEARNING

