

# **Bio Technology Interview Questions And Answers Guide.**



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## Bio Technology Job Interview Preparation Guide.

### Question # 1

How to calculate protein percentage in lowry method?

**Answer:-**

by determination of optical density by colorimetric method

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### Question # 2

What are the five greatest discoveries in the field of r DNA technology?

**Answer:-**

- 1- restriction enzyme
- 2- ligase enzyme
- 3- formation of recombinant plasmid by using these enzyme
- 4- selection of transformed cell
- 5- cDNA and genomic library

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### Question # 3

What is difference between transfection and transduction?

**Answer:-**

Transfection: Transfer of naked DNA into eukaryotic cell

Transduction: Transfer of genetic material from bacteria to virus through bacteriophage

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### Question # 4

Why do you use DBM instead of NCF in the northern blotting and what are the pre-treatments required for this paper to be used?

**Answer:-**

diazobenzoyloxymethyl paper that binds all single-stranded DNA, RNA, and proteins by means of covalent linkages to the diazonium group; used in situations where nitrocellulose blotting is not technically feasible

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### Question # 5

Who is the father of biotechnology?

**Answer:-**

The father of term biotechnology is Karl Ereky and father of biotechnology is Louis Pasteur

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### Question # 6

Dubai is desert how is it possible it is becoming greenery?

**Answer:-**

By genetically modifying any plant such that it will resist the climate in Dubai it still will give fruits and green leaves....

for eg...

may be cutting a gene code from cactus plant and pasting it



in apple plant...

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### Question # 7

What bacteria should we eat?

**Answer:-**

Why, bacteria eat almost anything they can get! Of course, they can't chew through cement. They can eat anything edible to animals and humans, probably more! Take wood for example, termites eat wood, bacteria eat wood too. In fact, termites wouldn't even be able to eat wood if it wasn't for the bacteria in their stomachs!

Bacteria are decomposers. Decomposers eat anything dead and once they are finished they put nutrients from the dead object or plant back into the ground to grow new plants

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### Question # 8

Why do you want to do Phd?

**Answer:-**

PhD is a threshold qualification about research, & makes capable to present your idea/view as a Philosopher.

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### Question # 9

What is the future of bio informatics in India?

**Answer:-**

- 1- In drug discovery research
- 2- Analysis of genome wide biomedical data
- 3- In genome and sequence analysis

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### Question # 10

What is the difference between defined, characterized and standard serum?

**Answer:-**

define serum is the artificial serum made by man and composition of which is well known by us  
characterized serum is that which made up of specific characters for example it contains specific antibody against specific disease  
stander serum is serum which is collected from normal blood which we can not make in laboratory scale although we know composition of it.

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### Question # 11

DOES EUKARYOTES HAVE RESTRICTION MODIFICATION SYSTEM? IF YES, THAN WHY ARE WE NOT USING FOR THE TREATMENT OF HIV?

**Answer:-**

eukaryotes does not contain restriction modifaciyon system

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### Question # 12

Is GMO food good as the prospective of the ethic values of the society?

**Answer:-**

no

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### Question # 13

What is the main objective of northern blotting?

**Answer:-**

it is used to determine the protein from a mixture of compounds

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### Question # 14

What is the nature of DBM paper in northern blotting?



**Answer:-**

positively charged i.e.cationic nature

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**Question # 15**

Sucrose is commonly used to preserve fruits why not glucose?

**Answer:-**

Glucose is reactive because its open-chain form contains an aldehyde group.

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**Question # 16**

What is the difference between transfection and transduction?why the word trasfection is prefers for transfer of genetic material through non viral particles in eukaryote not for prokaryote?

**Answer:-**

Transfection- (Transfer+ Infection)transfer of naked DNA (DNA without any carrier)into an Eukaryotic cell.  
Transduction-Transfer of genetic material among bacteria by carrier (bacteriophage).

Since the term 'Transformation' is used in case of transfer of naked DNA (through non viral particles) into prokaryotes,while the term 'Transfection' is used in case of eukaryotes because the term transformation is used for the conversion of normal body cells into cancerous cells which undergo unlimited cell division, so to avoid the confusion between these two different cell processes the other term Transfection is used in eukaryotes in place of the term transformation in prokaryotes.

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**Question # 17**

How does the DBM paper entrap the rna probes?

**Answer:-**

rna is having \_ve charge & DBM paper having positive chrg hence due to these opposite charges DBM paper binds to RNA

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