

# **Biological Sciences Interview Questions And Answers Guide.**



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## Biological Sciences Job Interview Preparation Guide.

### Question # 1

What percentage of agarose is required to load 2kb dna?

**Answer:-**

it is 2 percent agarose concentration used for 2 kb DNA

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### Question # 2

Why does separation not occurs in stacking gel in gel electrophoresis and why does separation done in separating gel?

**Answer:-**

Stacking gel has a much larger pore size, and is merely used for stacking (arranging one over other) the samples so that they can be resolved in the separating gel easily. Since the separating gel has an optimal pore size so the samples separate by molecular sieving effect of the resolving gel which is absent in case of Stacking gel.

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### Question # 3

What gas we inhale during night time?

**Answer:-**

oxygen

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### Question # 4

What is the difference between food infection and food?

**Answer:-**

Food infection- when the disease causing pathogenic organism are transmitted via food it is called food infection.

Food poisoning- the toxin produced by certain microorganism in food which leads to some undesirable change is called food poisoning.

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### Question # 5

What is the pH range of most bacteria and most fungi?

**Answer:-**

Bacteria generally require pH neutral or slightly alkaline i.e. for 7-8

fungi including both yeast and mould need acidic pH for their growth pH range for 4-6

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### Question # 6

Is the blood sterile or non-sterile?

**Answer:-**

Blood is sterile unless infection is present in the organism.

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### Question # 7

Which protein act as a fingerprint of the cell?

**Answer:-**

insulin



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### **Question # 8**

What is the difference between Gram positive & Gram negative bacteria based on its cell contents?

**Answer:-**

main difference is the peptidoglycan layer present in gram positive and absent in gram negative. This is the reason why most drugs designed to lyse the cell wall of bacteria do not show effect on gram negative bacteria

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### **Question # 9**

Explain apoptosis?

**Answer:-**

The programmed death of a cell. This type of cell death occurs by fragmentation of membranes that are then eliminated.

Cellular suicide or programmed cell death. HIV may induce apoptosis in both infected and uninfected immune system cells. Normally when CD4 cells mature in the thymus gland, a small proportion of these cells are unable to distinguish self from nonself. Because these cells would otherwise attack the body's own tissues, they receive a biochemical signal from other cells that results in apoptosis

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### **Question # 10**

How does every cell (prokaryotes and Eukaryotes) know, this is the time of division?

**Answer:-**

external factors

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### **Question # 11**

Is it possible to express the genes of prokaryotes into eukaryotes?

**Answer:-**

yes, it can

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### **Question # 12**

what are Therapeutic proteins?

**Answer:-**

proteins which can be used for therapeutic purposes

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