

VU Medical Zone

BT 604 Quiz no 1 Fall 2021

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 1 of 10 (Start time: 10:23:28 PM, 15 December 2021)

Total Marks: 1

_____ and _____ are the unsaturated sterol components present in fungal cell wall.

Select the correct option

☒	Ergosterol and zymosterol	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Cholesterol and ergosterol	
☐	Glycol and cholesterol	
☐	All of these	

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 2 of 10 (Start time: 10:24:51 PM, 15 December 2021)

Total Marks: 1

In continuous batch fermentation which phase is made stable for indefinite growth?

Select the correct option

☒	Stationary phase	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Exponential phase	
☐	Lag phase	
☐	Decline phase	

Click to Save Answer & Move to Next Question

EFFORT BY AMAAN KHAN

VU Medical Zone

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 3 of 10 (Start time: 10:26:43 PM, 15 December 2021)

Total Marks: 1

The biosynthesis of cellular components necessary for growth, reproduction and maintenance requires a supply of basic nutrients and an_____.

Select the correct option

☐	Water
☐	Ph
☒	Energy source
☐	Temperature

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 4 of 10 (Start time: 10:27:18 PM, 15 December 2021)

Total Marks: 1

Phosphorus is generally provided as inorganic phosphate ions, often as a_____.

Select the correct option

☐	ATP
☒	ph buffer
☐	Base
☐	Acid

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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EFFORT BY AMAAN KHAN

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 5 of 10 (Start time: 10:27:49 PM, 15 December 2021)

Total Marks: 1

Yeast mitochondria have _____ circular DNA molecules that code for some 10% of mitochondrial proteins.

Select the correct option

☒	75kbp	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	45kbp	
☐	30kbp	
☐	90kbp	

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 6 of 10 (Start time: 10:29:00 PM, 15 December 2021)

Total Marks: 1

Monod equation, in a form is similar to that _____ used in biochemistry

Select the correct option

☐	Lineweaver Burk equation	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Enzyme-substrate complex	
☒	Michaelis-Menten Kinetics	
☐	None of the above	

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 7 of 10 (Start time: 10:29:52 PM, 15 December 2021)

Total Marks: 1

The lag phase of growth of microorganisms is also known as _____ growth phase.

Select the correct option

☒	exponential	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	lag	
☐	death	
☐	stationary	

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 8 of 10 (Start time: 10:30:29 PM, 15 December 2021)

Total Marks: 1

Plaque has structures that pass into both the nucleus and cytoplasmic matrix named as ____

Select the correct option

☐	Endoplasmic reticulum	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Filament	
☒	Microtubules	
☐	Microtubules	

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 9 of 10 (Start time: 10:31:56 PM, 15 December 2021)

Total Marks: 1

----- structure is continuous with the cell membrane and outer membrane of mitochondria.

Select the correct option

☐	Microtubules
☐	Cytoplasmic reticulum
☒	Endoplasmic reticulum
☐	Golgi vesicles

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:23 PM, 15 December 2021

Question # 10 of 10 (Start time: 10:32:56 PM, 15 December 2021)

Total Marks: 1

Haploid cells of *S. Cerevisiae* contain approximately ----- of DNA.

Select the correct option

☒	12000kbp
☐	1200kbp
☐	12kbp
☐	120kbp

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 1 of 10 (Start time: 10:36:03 PM, 15 December 2021)

Total Marks: 1

Which of the following is a Trace element?

Select the correct option

☐	Carbon
☒	Molybdenum
☐	Mercury
☐	Nitrogen

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 2 of 10 (Start time: 10:36:38 PM, 15 December 2021)

Total Marks: 1

____ and ____ are the unsaturated sterol components present in fungal cell wall.

Select the correct option

☒	Ergosterol and zymosterol
☐	All of these
☐	Glycol and cholesterol
☐	Cholesterol and ergosterol

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 3 of 10 (Start time: 10:36:56 PM, 15 December 2021)

Total Marks: 1

The number and size of peroxisomes varies depending upon the _____ and available nutrients.

Select the correct option

☐	Water
☐	Ph
☒	Environment
☐	Media

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 4 of 10 (Start time: 10:37:26 PM, 15 December 2021)

Total Marks: 1

Which of the following is wall synthesizing enzyme in yeast?

Select the correct option

☐	Ergosterol synthetase
☒	Chitin synthetase
☐	Cholesterol formation enzymes
☐	All of these

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 5 of 10 (Start time: 10:38:30 PM, 15 December 2021)

Total Marks: 1

In _____ fermentation the system never achieves steady-state conditions.

Select the correct option

☐	Fed Batch
☐	Continuous
☒	Batch
☐	Upstream

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

[Click to Save Answer & Move to Next Question](#)

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 6 of 10 (Start time: 10:39:04 PM, 15 December 2021)

Total Marks: 1

_____ condition is maintained during continuous fermentation by the addition of fresh fermentation medium.

Select the correct option

☐	normal
☐	static
☒	steady state
☐	advance

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

[Click to Save Answer & Move to Next Question](#)

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 7 of 10 (Start time: 10:40:43 PM, 15 December 2021)

Total Marks: 1

Haploid cells of *S. Cerevisiae* contain approximately _____ of DNA.

Select the correct option

☐ 120kbp

☐ 1200kbp

☐ 12kbp

☒ 12000kbp

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 8 of 10 (Start time: 10:41:02 PM, 15 December 2021)

Total Marks: 1

There is associated structure with nucleus which has similar function to centriole present in yeast nucleus named as_

Select the correct option

☐ vesicles

☐ Phragmoplast

☐ Centrioles

☒ Plaque

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 9 of 10 (Start time: 10:42:24 PM, 15 December 2021)

Total Marks: 1

Most Nutrient uptake involves carrier proteins _____ that span the membrane.

Select the correct option

☒	Permeases	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Proteases	
☐	Nucleases	
☐	Lipases	

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:36 PM, 15 December 2021

Question # 10 of 10 (Start time: 10:42:53 PM, 15 December 2021)

Total Marks: 1

Yeast mitochondria have _____ circular DNA molecules that code for some 10% of mitochondrial proteins.

Select the correct option

☒	75kbp	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	30kbp	
☐	45kbp	
☐	90kbp	

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 1 of 10 (Start time: 10:43:39 PM, 15 December 2021)

Total Marks: 1

Haploid cells of *S. Cerevisiae* contain approximately _____ of DNA.

Select the correct option

☐	1200kbp
☐	12kbp
☒	12000kbp
☐	120kbp

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 2 of 10 (Start time: 10:44:05 PM, 15 December 2021)

Total Marks: 1

The biosynthesis of cellular components necessary for growth, reproduction and maintenance requires a supply of basic nutrients and an_____.

Select the correct option

☐	Temperature
☐	Ph
☒	Energy source
☐	Water

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 3 of 10 (Start time: 10:44:19 PM, 15 December 2021)

Total Marks: 1

Which of the following is wall synthesizing enzyme in yeast?

Select the correct option

☐

Ergosterol synthetase

☐

All of these

☐

Cholesterol formation enzymes

☒

Chitin synthetase

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 4 of 10 (Start time: 10:44:35 PM, 15 December 2021)

Total Marks: 1

_____ structure is continuous with the cell membrane and outer membrane of mitochondria.

Select the correct option

☐

Golgi vesicles

☐

Cytoplasmic reticulum

☒

Endoplasmic reticulum

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

☐

Microtubules

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 5 of 10 (Start time: 10:44:51 PM, 15 December 2021)

Total Marks: 1

In _____ fermentation the system never achieves steady-state conditions.

Select the correct option

☐	Fed Batch
☒	Batch
☐	Continuous
☐	Upstream

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 6 of 10 (Start time: 10:45:11 PM, 15 December 2021)

Total Marks: 1

In continuous batch fermentation which phase is made stable for indefinite growth?

Select the correct option

☐	Stationary phase
☐	Decline phase
☐	Exponential phase
☒	Lag phase

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 7 of 10 (Start time: 10:45:32 PM, 15 December 2021)

Total Marks: 1

Microorganisms produce spores at which of the following stage of microbial growth?

Select the correct option

☐ Log phase

☐ Death phase

☐ Lag phase

☒ Stationary phase

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 8 of 10 (Start time: 10:46:47 PM, 15 December 2021)

Total Marks: 1

Haploid cells of *S. cerevisiae* contain DNA size of approximately how many kbs?

Select the correct option

☐ 120kbp of DNA

☐ 12kbp of DNA

☒ 12000kbp of DNA

☐ 1200kbp of DNA

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

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BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 9 of 10 (Start time: 10:47:02 PM, 15 December 2021)

Total Marks: 1

In heterotrophic fermentations, carbon sources are required at relatively high media concentrations, often around _____.

Select the correct option

☐	5-10 g/l
☒	10-20g/l
☐	70-80 g/l
☐	30-40 g/l

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

BT604 - Industrial Biotechnology (Pre-mid Quiz 1)

Quiz Start Time: 10:43 PM, 15 December 2021

Question # 10 of 10 (Start time: 10:47:30 PM, 15 December 2021)

Total Marks: 1

Yeast cell membrane thickness is usually _____

Select the correct option

☐	1nm
☐	3nm
☒	7.5nm
☐	5nm

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

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