

LIVE Sample MCQ

Please find below a sample questionnaire showing one basic question and one advanced question in each of the six fields: Biochemistry, Molecular Biology, Cell Biology, Physiology, Microbio-Virology and Immunology. The real questionnaire to answer during the application process is made up of 48 questions, i.e. 8 questions per field. Within these 8 questions, 5 are basic questions and 3 are advanced questions.

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BIOCHEMISTRY_basic

Which functional group is in the structure CH3-CO-CH3?

[Reset my choices for this question]

- a. 📃 aldehyde
- b. 📃 ketone
- c. 🔲 amino
- d. 🔲 alkyl
- e. 📃 ester

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On post-transcriptional modifications, what are the correct statements?

[Reset my choices for this question]

- a. [] the poly(A) tail results from the polyadenylation of the 5' end eukariotic mRNA.
- b.
 the cap is added on mRNAs transcribed in the nuclei.
- c. introns are common in Eukaryotes and have been found in Archaebacteria.
- d. 🔲 small nucleolar RNAs guide chemical modifications of ribosomal RNAs.
- e. introns are specific sites for pre-mRNA methylation.

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MOLECULAR BIOLOGY_advanced

MICROBIO-VIROLOGY_basic

MOLECULAR BIOLOGY_basic

Reverse transcriptase polymerase chain reaction (RT-PCR) is a molecular biology method

[Reset my choices for this question]

- a. 🔲 to amplify DNA
- b. I to amplify and quantify RNA
- c. 🔲 to identify protein
- d. 🗌 to identify exon
- e. 🔲 to sequence gene

What is right for viruses?

[Reset my choices for this question]

- a. They divide by binary fission.
- b. 🔲 They can measure more than 0.5µm.
- c. 🔲 They can be an intracellular parasite.
- d.
 They can have a flagellum.
- e.
 They survive outside eukaryotic cell

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About the hypothalamus-hypophysis (Ht-Hp) axis, what are the correct statements?

[Reset my choices for this question]

- a. Oxytocin is a neurohormone secreted by hypothalamic neurons.
- b. The adenohypophysis produces several releasing hormones that act on other endocrine glands of the body.

c.
Hypothalamic and hypophyseal secretion of several hormones is under negative feedback control mediated by other hormones released by their target endocrine glands.

PHYSIOLOGY_advanced

MICROBIO-VIROLOGY_advanced

CELL BIOLOGY_advanced

- d. Ht-Hp axis coordinates the nervous system and the endocrine system.
- e. 🔲 Ht-Hp axis controls menstrual cycles in women.

Which sentences are right?

[Reset my choices for this question]

- a. Retroviruses are enveloped single- or double-stranded RNA.
- b. A provirus corresponds to DNA which is integrated into the host genome.
- c. 🔲 Naked viruses do not possess any capsid.
- d. A phage is a bacterial virus.
- e. A retrovirus needs a reverse transcription step into the host cell.

Which one of the processes listed below is carried out by the smooth endoplasmic reticulum?

[Reset my choices for this question]

- a. 📃 lipid biosynthesis
- b. protein synthesis
- c. Dost-translational modification of proteins
- d.

 chemical modification of foreign molecules, including drugs
- e. 🔲 steroid biosynthesis



LIVE Multiple Answer Survey Example

		« Prev	PAGE 2 V/3	Next »		
					17	MUNOLOGY_advance
Which of the f	ollowing molecules is a pa	ttern recognition re	eceptor (PRR) that re	cognizes pathogen-a	ssociated molecular pa	ttern (PAMP)?
[Reset my choice	s for this question]					
a. 🗌 TL	R4 receptor					
b. 🗌 N-	ormyl-methionyl receptor					
c. 🗌 Ma	nnose receptor					
d. 🔲 B7	1 (CD80) receptor					
e. 🔲 Fla	gelline receptor					
						IMMUNOLOGY_b
Which of the foll	owing are primary lympho	vid organs?				INIMONOLOGI_D
[Reset my choices for	- <u>1</u> (5.16 (6	na organs:				
a. 🗌 Spler						
b. Bone						
c. 🗌 Thyn						
	nteric lymph node					
e. 🗌 Lung	3					
						PHYSIOLOGY_b
About the pance	eas, what are the correct	statements?				
[Reset my choices for	or this question]					
a. 🗌 Alpha	a pancreatic cells secrete	insulin.				
b. 🔲 Exoc	rine portions of the pancre	eas secrete enzyn	nes that move throug	gh the pancreatic duo	t to the small intestine.	
c. 🗌 Alpha	a pancreatic cells secrete	glucagon				
d. 🔲 Gluc	agon and insulin are fat-so	oluble (lipophilic) h	hormones.			
	n is a peptide hormone w					
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	CELL BIOLOGY_basic
A microtubule is:	
[Reset my choices for this question]	
a. A component of flagella and cilia.	
b. A component of the nuclear envelop.	
c. A component of centrioles.	
d. 🔲 A contractile apparatus.	
e. 🔲 A component required for cellular respiration.	

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LIVE Multiple Answer Survey Example

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