Date:	Educational organization of orig	in:		
Title / Version:	Course Code: BLG-5071-2: Repr	roduction and Develo	oment	
	CONCEPTS AND TECHNIQUES	<b>S</b>		
		Theory Part		
The Living World General Concepts	Compulsory Concepts	Evaluation of Competencies	Evaluation of Explicit Knowledge	Practical Part
	Cell cycle     Interphase     Mitotic phase			
Cell division	Meiosis			
	Chromosome mutation			
	Cancer			
	Reproductive system  • Human reproductive organs			
	Hormonal regulation			
Human reproduction	Gametogenesis			
	Fertilization			
	Fertility			
	Contraception			



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CONCEPTS AND TECHNIQUES (Cont.)						
The Living Manual		Theor				
The Living World General Concepts	Compulsory Concepts (Cont.)	Evaluation of Competencies	Evaluation of Explicit Knowledge	Practical Part		
	Embryonic development					
	Growth					
	Stem cells					
Development	Cell differentiation					
Development	Morphogenesis					
	Pregnancy					
	Apoptosis					
District	Prenatal diagnoses					
Biotechnology	Medically assisted procreation					
	Intervention techniques used for reproduction mechanisms					



Categories of Techniques	Techniques (not prescribed when data are provided)	Practical Part Evaluation of Competencies
Graphic language	Observable drawings	
	Use of laboratory materials	
Experimentation	Use of observational instruments	
	Preparation of samples	

The four general concepts, as well as a representative sample of compulsory concepts, are evaluated throughout the entire examination. This strategy respects the requirements of the DED.					
Evaluation of competencies:					
<ul> <li>Two to four general concepts are evaluated. For these general concepts, a representative sample of the compulsory concepts is evaluated.</li> </ul>					
Both categories of techniques are evaluated. For both categories, at least three techniques are evaluated.					
Evaluation of explicit knowledge:					
<ul> <li>Two to three general concepts are evaluated. For these general concepts, priority is given to compulsory concepts that were not evaluated in the evaluation of competencies.</li> </ul>					



THEORY PART				
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions	
	GUIDE			
General and compulsory concepts are clearly identified.				
The number of general concepts evaluated respects the requirements of the DED.				
For each general concept, representative samples of the compulsory concepts are evaluated.				
Provided materials:				
Adult's Booklet				
Correction Key				
Guide				
Evaluation Booklet				
Authorized materials respect the requirements of the DED.				
Duration of the examination is 2 hours.				
ADULT'S BOOKLET-	-EVALUATION	OF COMPETEN	CIES SECTION	
One to three <i>scenarios</i> that involve an issue related to the reproductive system and its hormonal mechanisms, or the complications associated with cell development as well as issues related to reproductive technology. The booklet includes four to seven tasks (at least one task per scenario).				
The scenarios are open-ended and present a problem to be solved requiring explanations, taking a position, proposing solutions, justifying their position or solutions, answering questions, considering the impact of applications related to reproduction or development on societies, etc. The other section is devoted to the explicit evaluation of knowledge.				
Tasks are complex and open-ended; they are related to the context of the scenario.				



THEORY PART (Cont.)					
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions		
ADULT'S BOOKLET — EV	ADULT'S BOOKLET — EVALUATION OF COMPETENCIES SECTION (Cont.)				
Tasks are complex, incorporating the following characteristics:					
Mobilize several concepts					
Permit several solutions					
Use judgment, reasoning or analysis					
Require an opinion, taking a position					
Propose explanations and justifications					
Mobilize the 3 evaluation criteria					
ADULT'S BOOKLET—EV	ALUATION OF E	EXPLICIT KNOW	VLEDGE SECTION		
The booklet comprises 3 to 8 questions.					
Questions contain minimal or no context.					
The questions are varied in form and relate to each of the first 3 levels of cognitive skill (Knowing, Understanding and Applying).					
Concepts not assessed in the evaluation of competencies section are taken into account.					



THEORY PART (Cont.)				
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions	
AD	ULT'S BOOKLE	Γ GENERAL		
The visual aspect is appropriate (layout, illustrations, spaces for answers, etc.)				
The methods of representation are varied (graphs, tables, texts, equations, diagrams, etc.)				
The level of difficulty is appropriate.				
Scenarios are free of stereotypes, discriminations or offensive elements.				
Content is <u>original</u> (not based on educational accounts or other materials) and is mathematically and scientifically sound.				
The appendices (tables, formulas and quantities) are complete and conform to the DED.				
Copyright:				
<ul> <li>Rights have been obtained, with supporting documents clearly indicating sources (if necessary).</li> </ul>				
<ul> <li>The images and texts are copyright-free; the source of each image and text is clearly indicated underneath it.</li> </ul>				
<ul> <li>In the case of photos or drawings made by the authors of the exam, a letter granting copyright permission to GRICS is attached to the examination.</li> </ul>				



THEORY PART (Cont.)						
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions			
	CORRECTION KEY					
Examples of appropriate responses are provided for all tasks and questions.						
Marking scales are clear.						
A total of 20 marks are allotted for the explicit knowledge section.						
	EVALUATION B	OOKLET				
The checklist contains observable actions for each criterion.						
Each observable action connects with the concepts evaluated and respects the elements of the evaluation criteria.						
The observable actions can be evaluated using the Criterion-Referenced Rubrics.						
A total of 40 marks are allotted for the evaluation of competencies section.						
CONCORDANCE OF BOOKLETS						
There is a concordance between all the documents: Guide, Adult's Booklet, Correction Key, and Evaluation Booklet.						



PRACTICAL PART				
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions	
	GUIDE			
The general and compulsory concepts evaluated are clearly identified.				
Solves a problem related to one of the following concepts:				
Genetics				
Applied genetics				
Solves the problem using one of the following methods:				
The experimental method				
Analysis of data, which is provided				
Discussion of scientific or technological concepts				
Analysis of the results				
An answer to the problem with an explanation				
OR		•		
The modeling approach				
Development of a plan of action				
Carry out the plan of action				
Analysis of the results collected.				
The general and compulsory concepts evaluated are coordinated with the theory section.				
Provided materials:				
Adult's Booklet				
Correction Key				
Guide				
Evaluation Booklet				



PRACTICAL PART (Cont.)				
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions	
	GUIDE (Cont.)			
Duration of the examination is 3 hours.				
A list of materials required is provided.				
If necessary, instructions for the preparation of laboratory materials are provided.				
The appendix includes a list of materials as well as the procedure to be given to the adult, if requested.				
	ADULT'S BOO	OKLET		
The scenario is safe; safety instructions are clearly stated, when needed.				
The scenario proposes at least four tasks associated with each of the four evaluation criteria.				
The template complies with the DED and the prototype examination.				
The task is complex, incorporating the following characteristics:				
Mobilizes several concepts				
Provides data for analysis in the experimental approach				
Proposes a problem to be solved				
Requires the development of a laboratory report, following an outline that is provided				
Uses judgment, reasoning or analysis				
Mobilizes the 4 evaluation criteria				



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PRACTICAL PART (Cont.)					
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions		
A	ADULT'S BOOKLET (Cont.)				
Content is <u>original</u> (not based on educational accounts or other materials) and is mathematically and scientifically sound.					
The level of difficulty is appropriate.					
Scenarios are free of stereotypes, discriminations or offensive elements.					
The appendices (tables, formulas and quantities) are complete and conform to the DED.					
Copyright:					
<ul> <li>Rights have been obtained; supporting documents clearly indicate sources (if necessary).</li> </ul>					
<ul> <li>The images and texts are copyright free; the source of each image and text is clearly identified underneath it.</li> </ul>					
<ul> <li>In the case of photos or drawings made by the authors of the exam, a letter granting copyright permission to GRICS is attached to the examination.</li> </ul>					



PRACTICAL PART (Cont.)					
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions		
	CORRECTION KEY				
Examples of appropriate responses are provided for all tasks.					
	EVALUATION B	OOKLET			
The checklist contains observable actions for each criterion.					
Each observable action connects with the evaluated concepts and respects the elements of the evaluation criteria.					
The observable actions can be evaluated using the Criterion-Referenced Rubrics.					
A total of 40 marks are allotted.					
CONCORDANCE OF BOOKLETS					
There is a concordance between all the documents: Guide, Adult's Booklet, Correction Key, and Evaluation Booklet.					

