Enrollment	No
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School: School of Science

Program/s: BMS

Year: 5th Semester: 1X

Examination: End Semester Examination

Examination year: December - 2022

Course Code: BM510, Course Name: Reproductive Biomedicine III

Date: 06/12/2022 Total Marks: 40 Time: 11.30 to 10.30 am Total Pages: 02

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Puchins:			
Write each answer on a new page.			
Druw the diagram wherever necessary			
Stick to the Word Limit given in the Questions.			
		CO1,	BTL1,
Q1. Choose the correct answer			
(1x6=6)			BTL 2,
 For normal fertility, what per cent of the sperm in the ejaculate must exhibit vigorous motility? 		CO 3,	BTL 3,
a) 20	c) 40	CO 4	BTL 4
b) 30	d) 60		
In women, this sexually transmitted disease can re	sult in infertility		
a) Human papillomavirus (HPV)	c) Genital herpes		
b) Pelvic inflammatory disease	d) None of the above		
3. This is a major reason for infertility in women			
a) Anovulation	c) Age		
b) Weight	d) All of these		
4. Sperm lysin, the enzymatic substance produced by	sperms in mammals is known as		
a) Cryanogamone	c) Androgamone		
b) Hyaluronic acid	d) Hyaluronidase		
5. An ART in which an embryo with more than eight	blastomeres is transferred to the		
uterus is			
a) ZIFT	c) IUT		

b) IUI

d) Al

- 6. What is false regarding GIFT?
 - a) It is gamete intrafallopian transfer
 - b) Ovum from a donor is transferred into the oviduct of the recipient
 - c) Zygote from a donor is transferred into the oviduct of the recipient
 - d) The recipient cannot produce ova

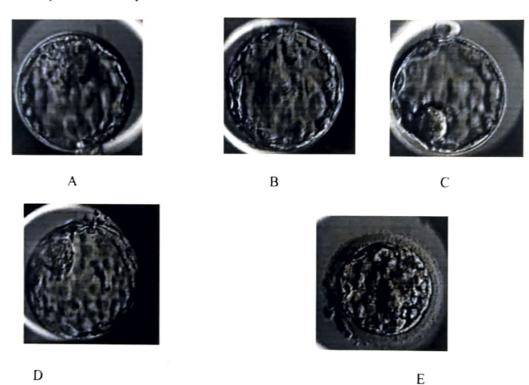
Q2. Answer the Following: (2x4=8)	COI,	BII.I.
 What does assisted hatching do? 	CO 2,	BLI
2. What is embryo hatching?	CO 3,	2,
3. Why should a hypoosmotic solution assay be done?	CO 4	BTI.
4. What could a laparoscopic examination tell?		BTL 4
Q3. Answer the Following: (3x3=9)	i	

- 1. What are the 3 stages of fertilization?
- 2. What infertility problems can be associated with heavy smoking in males?
- 3. Embryo grading is considered a subjective process. What is meant by that?

Q4. Answer the following:

(4x3=12)

1. Which embryo would you consider to be the highest quality and, therefore, the top-ranked embryo for transfer?



- 2. Write a short note on gamete preservation.
- 3. Write briefly about egg retrieval and the problems associated with it.

Q5. Answer the Following: (Any one)

(5x1=5) CO2, BTL 2, CO3, BTL CO4 3,

1. Discuss cortical reaction as an important aspect of fertilization, citing the events associated with it

BTL 4

2. Give a brief overview of ART techniques

********All the Best*****