


**NAVRACHANA
UNIVERSITY**
a UGC recognized University

School: School of Engineering and Technology
Program/s: BMS
Year: 5th **Semester:** 9th
Examination: End Semester Examination
Examination year: December - 2021

Course Code: BM511 **Course Name:** Reproductive
Biomedicine IV

Date: 07/12/2021
Time: 8:30 am to 10:30 am

Total Marks: 40
Total Pages:

Instructions:

- Write each answer on a new page.
- Use of a calculator is permitted.
- Draw all relevant waveforms in answer sheet only.
- * COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs*	BTL#
Q.1	<p>Answer the following questions:</p> <p>Consider a situation that you have decided to be an entrepreneur and wish to start your own IVF clinic, in this scenario what will your plan be for setting up a IVF clinic. What will be the minimal considerations required? Write in detail about the plan, strategy and concerns if any for the same. Utilize the information gathered from the visits to IVF and discussion in the class for the same.</p> <p>Or</p> <p>Discuss at length the importance of cryopreservation techniques reference to Onco-fertility preservation, delayed child bearing and HIV</p>	10	CO1,02	BT1, BT2
Q.2	<p>Answer the following questions (Any Six)</p> <ol style="list-style-type: none"> 1. What is the significance of cryopreservation in enhancing the IVF outcomes? Discuss the scientific merit of the same. 2. What is the process of sperm cryopreservation? 3. What are the ethical guidelines associated with a typical IVF procedure? 4. Write notes on oocyte cryopreservation and its importance. 5. What are the basic methods associated with embryo preservation? How long can the embryo be stored and how does one ensure its quality at the time of retrieval? 6. What are the requirements of an IVF laboratory set up in terms of design that ensure easy and quick cryopreservation processes? 7. List the apparatus required for cryopreservation of embryo. Also list the kind of media used for the process. 8. How does preservation impact implantation? In your opinion what are the merits and demerits of long term cryopreservation? 9. List the guidelines associated with counselling and patient interface that are mandatory for the functioning of an IVF clinic. 	30	CO1, CO2	BT1, BT3,

*****End of Question Paper*****