



**NAVVRACHANA  
UNIVERSITY**  
a UGC recognized University

**School:** School of Science  
**Program/s:** Biomedical Science  
**Year:** 2nd **Semester:** III  
**Examination:** End Semester Examination  
**Examination year:** December - 2022

**Course Code:** BM508 **Course Name:** Molecular Medicine IV

**Date:** 02/12/2022

**Time:** 11:30 am to 1:30pm

**Total Marks:** 40

**Total Pages:** 1

**Instructions:**

→ Write each answer on a new page

→ Draw neat and well-labelled diagrams wherever required

Q. No.	Details	Marks	COs*	BTL#
Q1	<p>Answer the following questions in short : (Any Five)</p> <ol style="list-style-type: none"> <li>1. What are the advantages of using stem cells in life style disorders ?</li> <li>2. What are the advantages of nanomedicine?</li> <li>3. State the concerns associated with nanotechnology and its use in medicine.</li> <li>4. What would be the clinical sources of stem cells?</li> <li>5. What are the advantages of adjuvant therapies? How are they designed?</li> <li>6. What is tissue engineering? What are its application?</li> </ol>	(15M)	CO1 CO2 CO3	BTL1,2 ,3
Q2	<p>Answer the following in detail : (Any Four)</p> <ol style="list-style-type: none"> <li>1. Write a detailed account on neo adjuvant therapy in breast cancer treatment.</li> <li>2. What are the approaches for tissue engineering?</li> <li>3. Discuss the use of nanotechnology in drug delivery.</li> <li>4. Discuss at length the applications of stem cells in clinical cases.</li> <li>5. What are the concerns of chemotherapy that are targetted for designing the adjuvant therapy drug design? Giving a suitable example explain.</li> </ol>	(20M)	CO1 CO2 CO3 CO4	BTL1,2 ,3,4
Q3	<p>Answer in short :</p> <ol style="list-style-type: none"> <li>1. Define Teratomas</li> <li>2. Any one advantage of artificial blood</li> <li>3. What percentage of liver can be transplanted from the live donar to recipient?</li> <li>4. Which cells of pancreas can be regenerated?</li> <li>5. Define multi-potent stem cells</li> </ol>	(5M)	CO1 CO2 CO5	BTL1.5 .6

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