

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MSC
BRANCH: BIOTECH

SEMESTER : III
SESSION : MO/2022

SUBJECT: BT503 BIOSAFETY, BIOETHICS AND IPR

TIME: 3:00 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
-

- Q.1(a) Define patent. what are the documents required for filling a patent application? [5]
Q.1(b) What is difference between copyright and patent? [5]
- Q.2(a) What are the non-patentable inventions? explain in brief. [5]
Q.2(b) What is patent specification? Which are the various types of patent application? [5]
- Q.3(a) What are the various types of licences? Differentiate between licence and assignment. [5]
Q.3(b) How is patent obtained? Discuss [5]
- Q.4(a) Elaborate on Cartagena protocol on biosafety. [5]
Q.4(b) What are the different risk assessments associated with genetically modified plants? [5]
- Q.5(a) Discuss the various ethical issues surrounding gene therapy. [5]
Q.5(b) What do you understand by bioweapons? Discuss the concern in the use of biotechnology for warfare. [5]

:::::24/11/2022:::::E