Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14BT3013** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ENTREPRENEURSHIP, IPR AND BIOSAFETY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Questions | Course  Outcome | Marks |
| 1. | Explain in detail about the characteristics and different roles of entrepreneurs with necessary examples. | CO2 | 20 |
| (OR) | | | |
| 2. | Write in detail about the guidelines of DBT in formulation of research projects with suitable descriptions. | CO2 | 20 |
| 3. | Give a detailed account on importance of patent and procedure of patent submission with special mention of Indian patents. | CO2 | 20 |
| (OR) | | | |
| 4. | Write in detail about the importance of Trademark and Copyright with suitable examples. | CO2 | 20 |
| 5. | Enumerate the importance biosafety guidelines in biotechnology research involving biohazardous materials. | CO1 | 20 |
| (OR) | | | |
| 6. | Explain in detail about the role of Genetically Modified Organisms and the risk factors concerning GMO and LMO. | CO1 | 20 |
| 7. | Give a detailed account on National and International regulations on Cartagena Protocol. | CO2 | 20 |
| (OR) | | | |
| 8. | Explain in detail about international and National level regulations on transfer of biomaterials for research with necessary examples. | CO1 | 20 |
|  | **Compulsory:** | | |
| 9. | Explain in detail the different levels of bio-safety and its importance in recombinant DNA technology applications in modern research. | CO1 | 20 |

ALL THE BEST