

Reg. No. :

**Question Paper Code : 32909**

M.E./M.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Elective

Aeronautical Engineering

OBA 433 – INTELLECTUAL PROPERTY RIGHTS

(Common to: M.E. Aerospace Technology/M.E. Applied Electronics/M.E. Automobile Engineering/M.E. Big Data Analytics/M.E. Biomedical Engineering/M.E. Biometrics and Cyber Security/M.E. CAD/CAM/M.E. Communication Systems/  
M.E. Communication and Networking/M.E. Computer Aided design/M.E. Computer Integrated Manufacturing/M.E. Computer Science and Engineering/M.E. Computer Science and Engineering (With Specialization in Artificial Intelligence and Machine Learning/ M.E. Computer Science and Engineering (With Specialization in Networks)/M.E. Construction Engineering and Management/M.E. Digital Signal Processing/M.E. Electronics and Communication Engineering/M.E. Electronics and Communication Engineering (Industry Integrated)/M.E. Embedded System Technologies/M.E. Energy Engineering/M.E. Engineering Design/M.E. Environmental Engineering/M.E. Industrial Engineering/M.E. Industrial Safety Engineering/M.E. Infrastructure Engineering and Management/M.E. Internal Combustion Engineering/M.E. Manufacturing Engineering/M.E. Mechatronics/  
M.E. Medical Electronics/M.E. Mobile and Pervasive Computing/M.E. Multimedia Technology/M.E. Power Electronics and Drives/M.E. Power Systems Engineering/M.E. Product Design and Development/M.E. Software Engineering/M.E. Soil Mechanics and Foundation Engineering/M.E. Structural Engineering/M.E. Thermal Engineering/M.E. VLSI Design/M.E. VLSI and Embedded Systems/M.Tech. Biopharmaceutical Technology/  
M.Tech. Biotechnology/M.Tech. Chemical Engineering/M.Tech. Information Technology/M.Tech. Nano Science and Technology/M.Tech. Plastics Technology/M.Tech. Remote Sensing and GIS/M.Tech. Textile Technology/  
M.Tech. Textile Technology (with Specialization in Textile Chemistry)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Explain 'Geographic Indicator' with examples.
2. Can IPR be claimed on a service offering or is restricted only to tangibles?

3. State any four differences between the patenting procedure in India and in any one foreign country.
4. What is 'Patent Cooperation Treaty'?
5. What are the functions of patent attorney?
6. What are the benefits of the Bayh-Dole Act?
7. What is the need for an Intellectual Property Audit?
8. List the steps that should be taken once violation of IPR is observed.
9. What is real option model?
10. What are the circumstances under which ownership of an IPR is lost?

PART B — (5 × 13 = 65 marks)

11. (a) (i) Discuss the importance of Intellectual Property Rights and the evolution of the concept of IPR. (8)
- (ii) Compare issues with Intellectual properties with physical properties. (5)

Or

(b) Write short notes on

- (i) Patents (5)
- (ii) Copyrights (4)
- (iii) Trade Secrets (4)

12. (a) Elaborate the procedure and contents of patent disclosure for grant of patents in India.

Or

- (b) (i) Discuss the new developments in IPR and how it is affecting business and economies. (8)
- (ii) Explain the situations under which foreign patents can be obtained. (5)

13. (a) (i) Explain in detail the functions of any two international treaties towards IPR. (7)
- (ii) Elaborate the salient feature of Design Act of patent. (6)

Or



(b) (i) Discuss the Trademark Act in detail. How does this Act provide protection against Trademark violations in cyberspace? (8)

(ii) Discuss the issues with Academic Entrepreneurship. (5)

14. (a) What are the various measures of protection available to technology companies for protection their R and D initiatives? Elucidate with examples.

Or

(b) (i) Discuss in detail the various mechanisms available to protect traditional knowledge. (8)

(ii) Discuss about offensive and defensive rights of patent. (5)

15. (a) Discuss the various methods available to value Intellectual Property in India. Are these methods different from those used in developed nations?

Or

(b) Elaborate the procedure that should be undertaken to transfer and licensing an IPR.

PART C — (1 × 15 = 15 marks)

16. (a) As a part of your project work you have developed a new equipment for an agricultural purpose. Your project comprised of four members. You have also written and published a research article that explains your innovation. Detail the protection that you can seek, the procedures to be followed for the same and the timeframe that would be required to achieve this.

Or

(b) You are currently working in the R and D wing of an MNC that manufactures water purifying solutions. You have developed two new products using the R and D facilities.

(i) What is the procedure for applying for international protection for your innovation? (7)

(ii) Explain the rights that you have and your company has on the innovation. (3)

(iii) In case you decide not to disclose your innovation to the company and file for protection under your name, would it be legally valid?(5)