



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:VII
Class:Final Year B Tech	Program:Robotics and Automation
Branch Code:ROB	Pattern:2022
Name of Course:Innovation, Entrepreneurship & IPR	Course Code:ROB224007
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.
6. Q.1 and Q.2 are compulsory, Solve (a) or (b) and (c) or (d) from Q.3, Q.4 and Q.5.

Marks CO

Question No. 1

- 1a) Explain the different types of innovation with suitable examples. How do these innovations influence business growth? (6) CO1

Question No. 2

- 2a) Describe the process of brainstorming for idea generation. How does user feedback help in refining prototypes? (6) CO3

Question No. 3

- 3a) Explain the concept of market-product fit and discuss why it is crucial for successful product commercialization. (8) CO2

OR

- 3b) Describe the prototype designing process. Explain any two prototype development tools with examples. (8) CO2

- 3c) Define Minimum Viable Product (MVP). Discuss the stages involved in MVP development. (8) CO2

OR

- 3d) Explain how design thinking helps in identifying the right problem. Provide a suitable example. (8) CO2

Question No. 4

- 4a) Explain the major components of a business plan. Why is each component important for start-up success? (8) CO3

OR

- 4b) Describe the stages in business plan development with examples. (8) CO3

- 4c) Discuss how market research tools help validate a business opportunity. (8) CO3

OR

- 4d) Explain the importance of early-stage IP management in startups. Provide a suitable case. (8) CO3

Question No. 5

- 5a) Define a startup as per Indian regulations and apply these regulatory criteria to explain the requirements for obtaining Startup India recognition. (8) CO5

OR

- 5b) Describe the Startup India registration process under DPIIT. Discuss its benefits. (8) CO5
- 5c) Discuss various opportunities and central/state schemes available for startups and their impact on early-stage growth. (8) CO5

OR

- 5d) Explain the relevant Companies Act provisions applicable to startup incorporation. (8) CO5

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