



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

	InSem Examination-IWinter 2023		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester:III	
	Name of Programme:S. Y. B. Tech(R&A)	Pattern:2022	
	Name of Course:Manufacturing Technology	Course Code:ROB222002	
	Max. Marks:30	Duration:1 Hour	

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

Question No. 1 Attempt following Question

- a) Describe the steps to make mold cavity in sand casting (5) CO1

OR

- b) Describe the sand casting terminology with neat sketch (5) CO1
- c) Describe the procedure to determine permeability of a sand with neat sketch (5) CO1

OR

- d) Describe the procedure to determine compressive strength of a sand with neat sketch (5) CO1
- e) Describe single piece and split pattern with neat sketch (5) CO1

OR

- f) Describe allowances to be considered while designing a pattern (5) CO1

Question No. 2 Attempt following Question

- a) Describe and compare between Hot forging and Cold forging (5) CO2

OR

- b) Describe and compare between Hot forming and Cold forming (5) CO2
- c) Describe and compare between Open die forging and Closed die forming with neat sketch (5) CO2

OR

- d) Describe board drop hammer with neat sketch (5) CO2
- e) Describe two high (reversible) type of rolling mill with neat sketch. State the advantages and limitations (5) CO2

OR

- f) Describe three high type of rolling mill with neat sketch. State the advantages and limitations (5) CO2