



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:V
Class:TY	Program:B.Tech
Branch Code:ROB	Pattern:2023
Name of Course: Workplace Management	Course Code:2312381
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 3 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.

Marks CO

Question No. 1

- 1a) Explain Lean Concept, its origin and objectives those can be achieved by implementing Lean in manufacturing industry. (6) 01

Question No. 2

- 2a) Describe 14 Lean principles that constitutes the “Toyota Way”. (6) 02

Question No. 3

- 3a) Why observation skills are necessary to be adopted in the context of Lean Management? (8) 03

OR

- 3b) Observe the below snap of a market place. Prepare the table with Minimum six observations and connect them with principles of observation skills. (8) 03



- 3c) Explain the Five steps (5S) which constitutes in transforming the Workplace of a manufacturing organization. Elaborate how transformation will take place by implementation of each step. (8) 03

OR

- 3d) Explain what preparedness is required to be in place, before one can start implementing the “5S” in the organization. Support at least with one sketch as an example out of Zonal Map, organization chart or Red Tag. (8) 03

Question No. 4

- 4a) Define first step, “1S”. What benefits organization expects by its implementation? Name the eight different steps of “1S”, which contributes changes in the organization. Explain what changes will take place by practising each one of the eight steps. (8) 04

OR

- 4b) Explain in details How Red Tagging activity can be practised, as a team so that it becomes short but powerful event. 2. Where the tool “Fix point photography” is applicable? What all situations should be kept “fix” to get the improvement consistency in the object being improved. Explain the stages in which an object is improved. (8) 04

- 4c) Elaborate the concept of what second Step, ”2S” means. Narrate seven definitions of “2S” which are in catching words. Based on these, explain which example of 2S be called as a “2S Shining” Example. (8) 04

OR

- 4d) Explain what benefits Manufacturing Organization can avail by implementing the tool “2S”. Explain in depth the four steps of implementation of “2S” methodology. Give at least one example of each, for the four ways of fourth step, “Identifying the location”. (8) 04

Question No. 5

- 5a) Explain below concepts & their applications, in implementing the tool “2S”. -- 1. “FIFO” 2. “3C” 3. “Flexi-store” 4. “String Diagram”. (8) 04

OR

- 5b) Reply in one sentence of below questions. Topics -3S &4S (8) 04
 1.Is “3S”-Seiso, means mere housekeeping? If not then define “3S”.
 In context of “5S” Methodology, reply below questions on 4thS”
 2.Explain what is “4S”-Saiketsu – Standardization – means?
 3.Why “standardise”? What is the purpose?

4. Give one, one examples of standardization of 1S,2S & 3S activity.

5c) Reply in one sentence. Topic - "5thS"

(8) 04

1. Need of Shitsuke – Sustain - "5th S".
2. What are the key activities required to be carried out to in "5thS" (Sustain)?
3. In how many levels, "5S" audits are normally conducted, and who are auditors & auditees in each level of audit.
4. How "5S" Audit score is graphically represented, draw a sketch.

OR

5d) Reply in one sentence. Topic - "6thS" Safety

(8) 04

- 1 How do you define what "Accident" means? Is accident happening on its own or it is caused?
2. Classify statistical break up of root causes – 'Unsafe Acts', Unsafe Conditions' & 'Natural calamities' -- due to which accidents are Happening.
3. Give two examples each from industry, that of, 'Unsafe Acts' & 'Unsafe conditions.' Also, that of 'Natural calamities'
4. How Safety, became "6thS" – integral part of the Work place Management?

..... End of question paper.....