

Industrial Engineering

Online Quiz for Unit 2

***Required**

1. Email address *

2. Identify the definition of work study from following

1 point

Mark only one oval.

- ☐ Improvement the activities in the production to assist the management in the optimum use of human and material resources by doing more effective use of plant and equipment, more effective use of human efforts, and by evaluation of human work.
- ☐ It is the analysis of work into smaller parts followed by rearrangement of these parts to give the same effectiveness at lesser Cost. It examines both the method and duration of the work involved in a process.
- ☐ is a technique used to minimize cost either by designing work for high productivity or by improving productivity in existing work through improvements in current methods and by reducing ineffective or wasted time.
- ☐ the analytic investigation of the methods, conditions and effectiveness of industrial work, and thereby the determination of the ways in which human efforts may most economically be applied.
- ☐ none of the above
- ☐ all

3. According to British standard identify the definition of work study

1 point

Mark only one oval.

- ☐ Improvement the activities in the production to assist the management in the optimum use of human and material resources by doing more effective use of plant and equipment, more effective use of human efforts, and by evaluation of human work.
- ☐ It is the analysis of work into smaller parts followed by rearrangement of these parts to give the same effectiveness at lesser Cost. It examines both the method and duration of the work involved in a process.
- ☐ is a technique used to minimize cost either by designing work for high productivity or by improving productivity in existing work through improvements in current methods and by reducing ineffective or wasted time.
- ☐ Work study is a generic term for those techniques, particularly method study and work measurement, which are used in the examination of human work in all its contexts, and which lead systematically to the investigation of all the factors which affect the efficiency and economy of the situation being reviewed, in order to effect improvement
- ☐ none of the above
- ☐ all

4. Identify the correct objectives of work study

1 point

Mark only one oval.

- ☐ It is a mean for raising productivity of an industry by re-organization of the work, involving little or no capital expenditure at all.
- ☐ It is used to determine the standards of performance on which effective planning and control depends.
- ☐ It follows a systematic approach which ensures no related factor is overlooked.
- ☐ It results in better workplace layout, neat and clean working environment resulting in minimum movement of workers and materials,
- ☐ none of the above
- ☐ all

5. Identify the correct objectives of work study

1 point

Mark only one oval.

- ☐ It results in saving and efficient use of human and material resources by increasing output and reducing scrap, rework etc.
- ☐ It eliminates unnecessary human movements and Results in improved safety.
- ☐ It guides to determine the level of skill in the workers for implementing the incentive based wage system.
- ☐ It helps to minimize unit cost by proper selection and use of machine, processes etc.
- ☐ none of the above
- ☐ all

6. Method study define the following

1 point

Mark only one oval.

- ☐ the application of techniques designed to establish time for a qualified worker to carry out a specified job at a defined level of performance.
- ☐ the systematic recording and critical examination of existing and proposed ways of doing work, as a means of developing and applying easier and more effective methods and reducing costs
- ☐ is employed to improve the activities in the production to assist the management in the optimum use of human and material resources by doing more effective use of plant and equipment, more effective use of human efforts, and by evaluation of human work.
- ☐ none of the above
- ☐ all

7. Work Measurement define the following

1 point

Mark only one oval.

- ☐ the application of techniques designed to establish time for a qualified worker to carry out a specified job at a defined level of performance.
- ☐ the systematic recording and critical examination of existing and proposed ways of doing work, as a means of developing and applying easier and more effective methods and reducing costs
- ☐ is employed to improve the activities in the production to assist the management in the optimum use of human and material resources by doing more effective use of plant and equipment, more effective use of human efforts, and by evaluation of human work.
- ☐ none of the above
- ☐ all

8. Identify the correct human factors in work study

1 point

Mark only one oval.

- ☐ Qualities of Work study man
- ☐ Relationships between workers and management
- ☐ Design of machinery, controls and workplaces
- ☐ Work Environment design
- ☐ Design of Task and work Organization:
- ☐ None of the above
- ☐ all

9. Identify the correct human factors in work study

1 point

Mark only one oval.

- ☐ Considerations of health issues
- ☐ Manual Handling and Industrial Hygiene
- ☐ Responsibilities of employees and employers
- ☐ Integrating Operator and Operations:
- ☐ Factors related to work environment like fatigue, ventilation, noise etc
- ☐ None of the above
- ☐ all

10. Identify the objectives of method study

1 point

Mark only one oval.

- ☐ The improvement of processes and procedures
- ☐ The improvement of factory, shop and work place layout and of the design of plant and equipment.
- ☐ Economy in human effort and reduction of unnecessary fatigue.
- ☐ Improvement in the use of materials, machines and manpower.
- ☐ The development of better physical working environment.
- ☐ None of the above
- ☐ all

11. Identify the objectives of method study

1 point

Mark only one oval.

- ☐ To find the best way of doing a job.
- ☐ To train the individual worker in its practice as per standardized method.
- ☐ Reduction of waste and scrap, improvement in quality
- ☐ Greater job satisfaction, higher standards of safety and health.
- ☐ Improvement in the flow of production and processes.
- ☐ None of the above
- ☐ all

12. The following guidelines can be used for selecting a job

1 point

Mark only one oval.

- ☐ Bottleneck operations which are holding up other production operations.
- ☐ Operations involving excessive labour.
- ☐ Operations producing lot of scrap or defectives.
- ☐ Operations having poor utilization of resources.
- ☐ Backtracking of materials and excessive movement of materials.
- ☐ None of the above
- ☐ all

13. factors which favor selection in technical aspect in time study are,

1 point

Mark only one oval.

- ☐ Job having in consistent quality.
- ☐ Operations generating lot of scraps.
- ☐ Frequent complaints from workers regarding the job.
- ☐ None of the above
- ☐ all

14. Identify the incorrect process sequence chart

1 point

Mark only one oval.

- ☐ man, material and machine Flow process chart
- ☐ two handed process chart
- ☐ outline process chart
- ☐ multiple activity chart
- ☐ None of the above

15. Identify the incorrect time scale chart

1 point

Mark only one oval.

- ☐ simo chart
- ☐ predetermined motion time study
- ☐ outline process chart
- ☐ multiple activity chart
- ☐ None of the above

16. following Diagrams indicating movement and models:

1 point

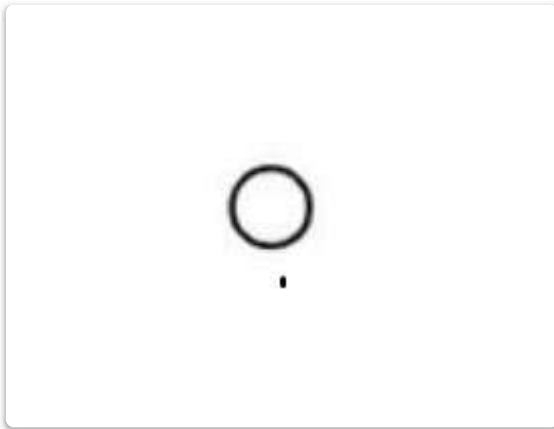
Mark only one oval.

- ☐ simo chart
- ☐ flow and string diagram
- ☐ cycle and cronocycle graph
- ☐ travel chart
- ☐ None of the above

17. Identify the symbol of Inspection in method study from following

1 point

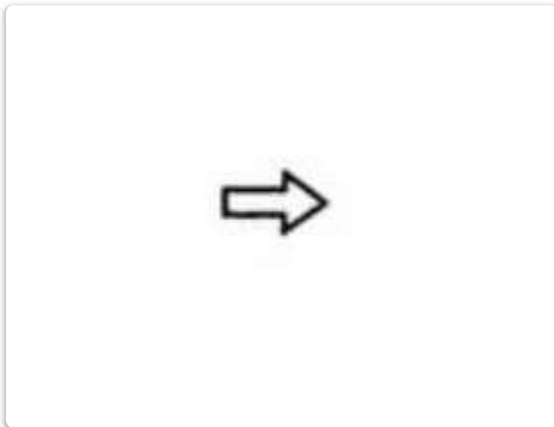
Mark only one oval.



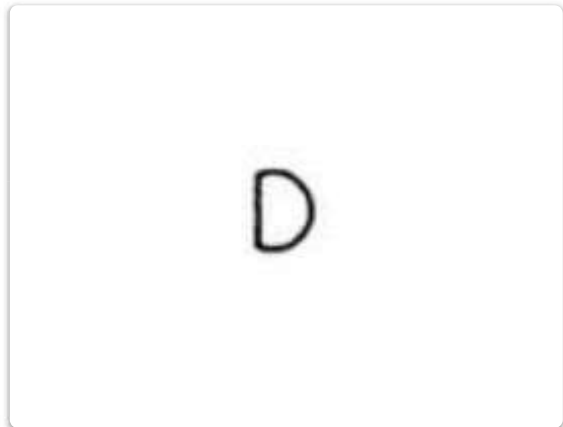
☐ Option 1



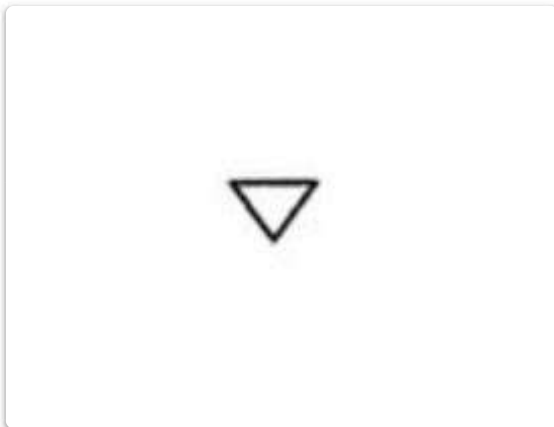
☐ Option 2



☐ Option 3



☐ Option 4



☐ Option 5

☐ none of the above

18. Identify the symbol of operation in method study from following

1 point

Mark only one oval.



☐ Option 1



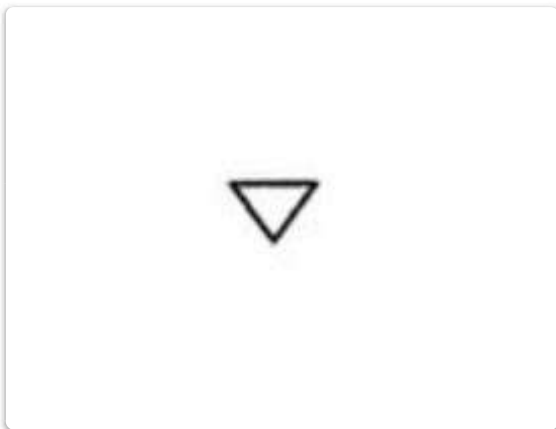
☐ Option 2



☐ Option 3



☐ Option 4



☐ Option 5

☐ none of the above

19. Identify the symbol of Transportation in method study from following

1 point

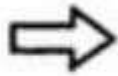
Mark only one oval.



☐ Option 1



☐ Option 2



☐ Option 3



☐ Option 4



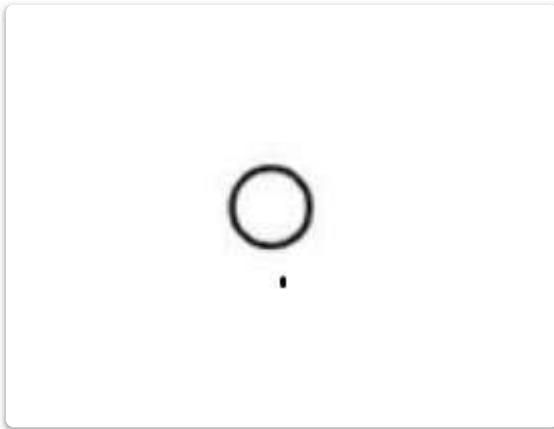
☐ Option 5

☐ none of the above

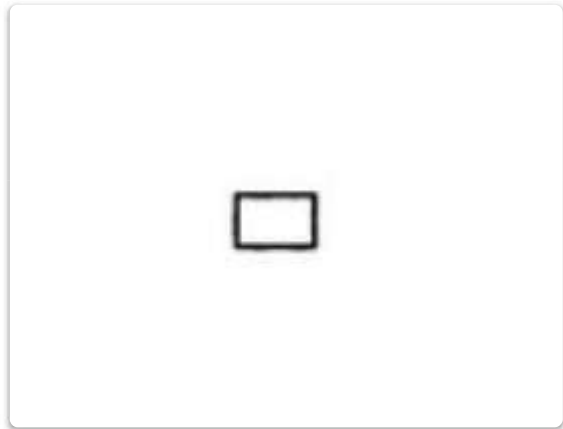
20. Identify the symbol of Delay in method study from following

1 point

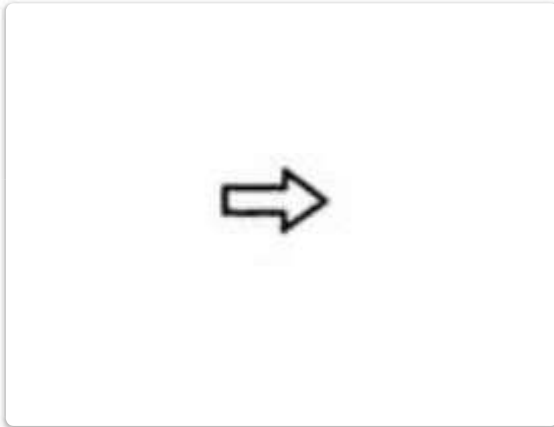
Mark only one oval.



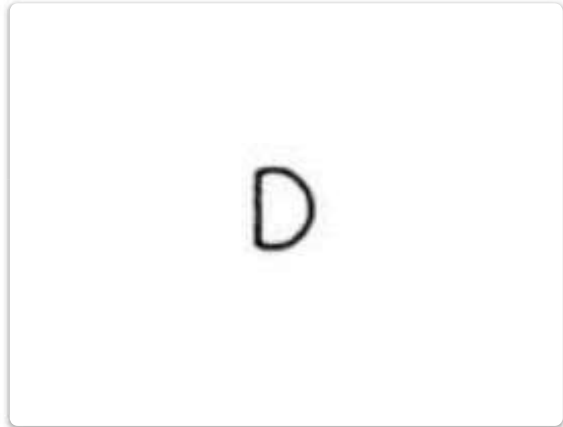
☐ Option 1



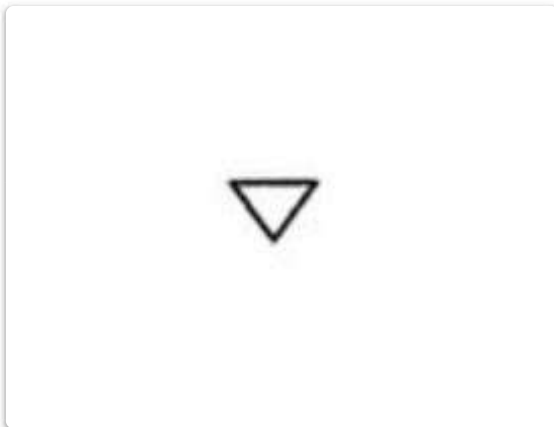
☐ Option 2



☐ Option 3



☐ Option 4



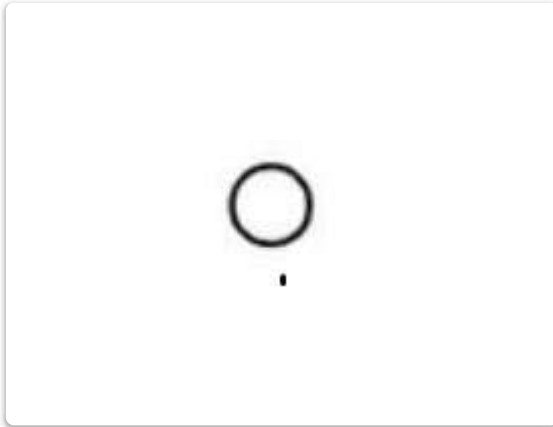
☐ Option 5

☐ none of the above

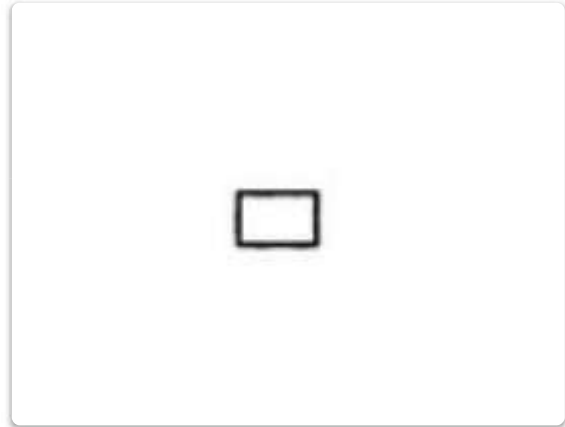
21. Identify the symbol of storage in method study from following

1 point

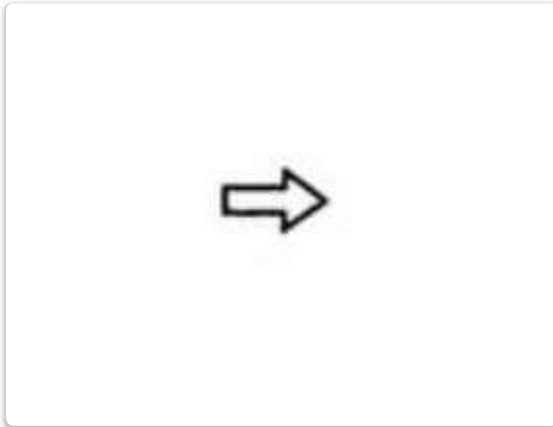
Mark only one oval.



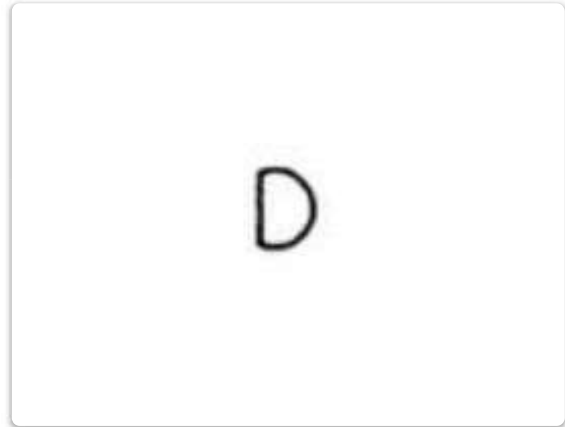
☐ Option 1



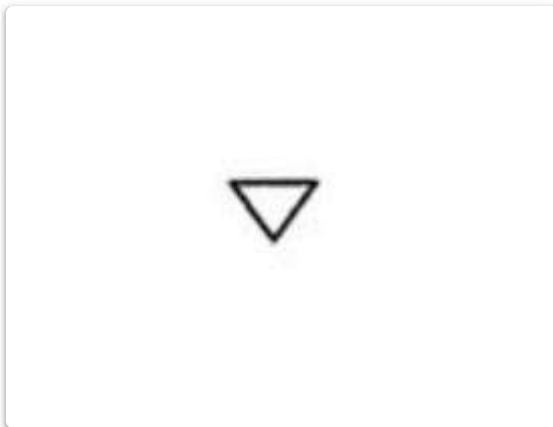
☐ Option 2



☐ Option 3



☐ Option 4



☐ Option 5

☐ none of the above

22. Suggest suitable chart for writing a letter to manager

1 point

Mark only one oval.

- ☐ Travel chart
- ☐ simo chart
- ☐ two handed process chart
- ☐ man type flow process chart
- ☐ none of the above

23. Suggest suitable chart for tightening the nut and bolt

1 point

Mark only one oval.

- ☐ Travel chart
- ☐ simo chart
- ☐ two handed process chart
- ☐ man type flow process chart
- ☐ none of the above

24. Suggest suitable chart for inspection of the component

1 point

Mark only one oval.

- ☐ simo chart
- ☐ material type flow process chart
- ☐ man and material type flow process chart
- ☐ man type flow process chart
- ☐ none of the above

25. it is a tabular record for representing the quantitative data regarding the movement of workers, materials or equipment between different stations during a given period of time.

1 point

Mark only one oval.

- ☐ simo chart
- ☐ travel chart
- ☐ man and material type flow process chart
- ☐ man type flow process chart
- ☐ none of the above

26. It is diagram of scale layout drawing on which length of rope or wire is used to record the extent as well the pattern of movement of worker working within a limited area during a certain period of time.

1 point

Mark only one oval.

- ☐ simo chart
- ☐ travel chart
- ☐ string diagram
- ☐ man type flow process chart
- ☐ none of the above

27. A small electric bulb is attached to hand, finger or other part of the body of the operator performing the operation. A photograph is taken by still camera and the light source shows the path of the motion and the path of the photograph is called as, 1 point

Mark only one oval.

- ☐ graphical plot
- ☐ travel chart
- ☐ string diagram
- ☐ cycle graph
- ☐ none of the above

28. Micro-motion study which is a set of techniques intended to divide the human activities in a groups of movements or Micro-motions and the study of such movements helps to find for an operator one best pattern of movement that consumes less time and requires less effort to accomplish the task is also called as 1 point

Mark only one oval.

- ☐ graphical plot
- ☐ therbligs
- ☐ string diagram
- ☐ cycle graph
- ☐ none of the above

29. it is a figure, based on the film analysis, used to record simultaneously on a common time scale the therbligs or a group of therbligs performed by different parts of the body of one or more operators. 1 point

Mark only one oval.

- ☐ simo chart
- ☐ therbligs
- ☐ string diagram
- ☐ cycle graph
- ☐ none of the above

30. A work measurement technique for building up time for the job at a defined level of performance by totaling elemental times obtained previously from time studies on other jobs containing the elements concerned, 1 point

Mark only one oval.

- ☐ simo chart
- ☐ therbligs
- ☐ string diagram
- ☐ synthetic motion study
- ☐ none of the above

31. Identify the concept of study involves following steps

1 point

- 1) Collect all the details about the job (dimensions, tools, methods, conditions).
- 2) Analyze jobs into constituent elements (activity grouping to enable synthetic elements to be applied if relevant).
- 3) Select appropriate basic times from synthetic data covering contingent factors.
- 4) Select and apply synthetic data covering contingent factors.
- 5) Verify details of elemental analysis for job method and condition.
- 6) Total the basic times, rating and allowances to compute standard time for the job.

Mark only one oval.

- ☐ Method study
- ☐ Motion Study
- ☐ Work study
- ☐ synthetic motion study
- ☐ none of the above

32. a systematic identification and elimination of unnecessary costs, it critically investigates and analyses the different aspects of materials, purchase, design and production of each and every component of the product.

1 point

Mark only one oval.

- ☐ Method study
- ☐ value analysis
- ☐ work study
- ☐ synthetic motion study
- ☐ none of the above

33. It examines the design, method of manufacturing, material used, function and cost of each and every component in order to produce it economically without decreasing its utility, function or reliability.

1 point

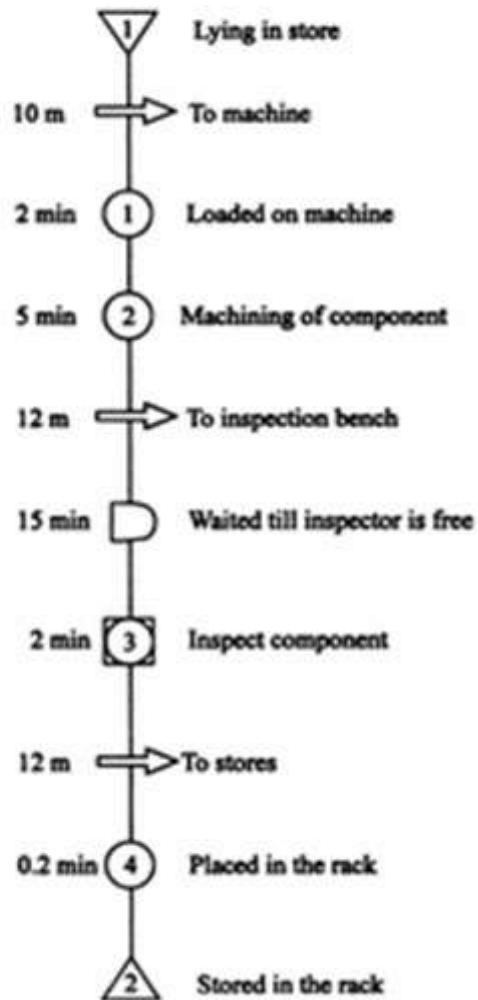
Mark only one oval.

- ☐ Method study
- ☐ value engineering
- ☐ work study
- ☐ synthetic motion study
- ☐ none of the above

34. Identify the type of chart using this sketch

2 points

Task : Machining of the component
 Chart begins : Component lying in the stores
 Chart ends : The machined component lying in the stores
 Charted by :
 Date of charting :



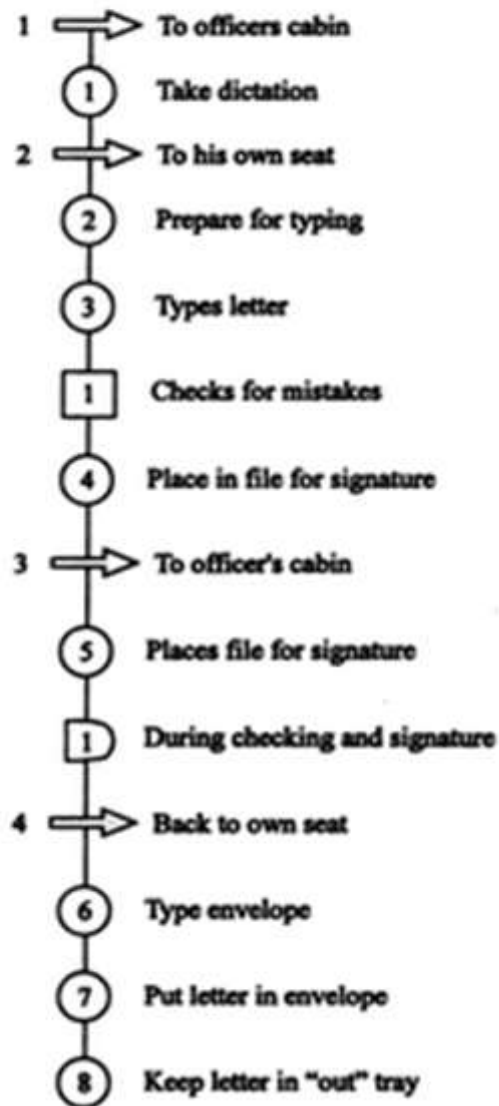
Mark only one oval.

- ☐ man type flow process chart
- ☐ method type flow process chart
- ☐ material type flow process chart
- ☐ machine type flow process chart
- ☐ none of the above

35. Identify the type of chart using this sketch

2 points

Task : Writing a letter
 Chart begins : Typist in his chair at his office
 Chart ends : Typist puts letter in "out tray"
 Charted by :
 Date of charting :

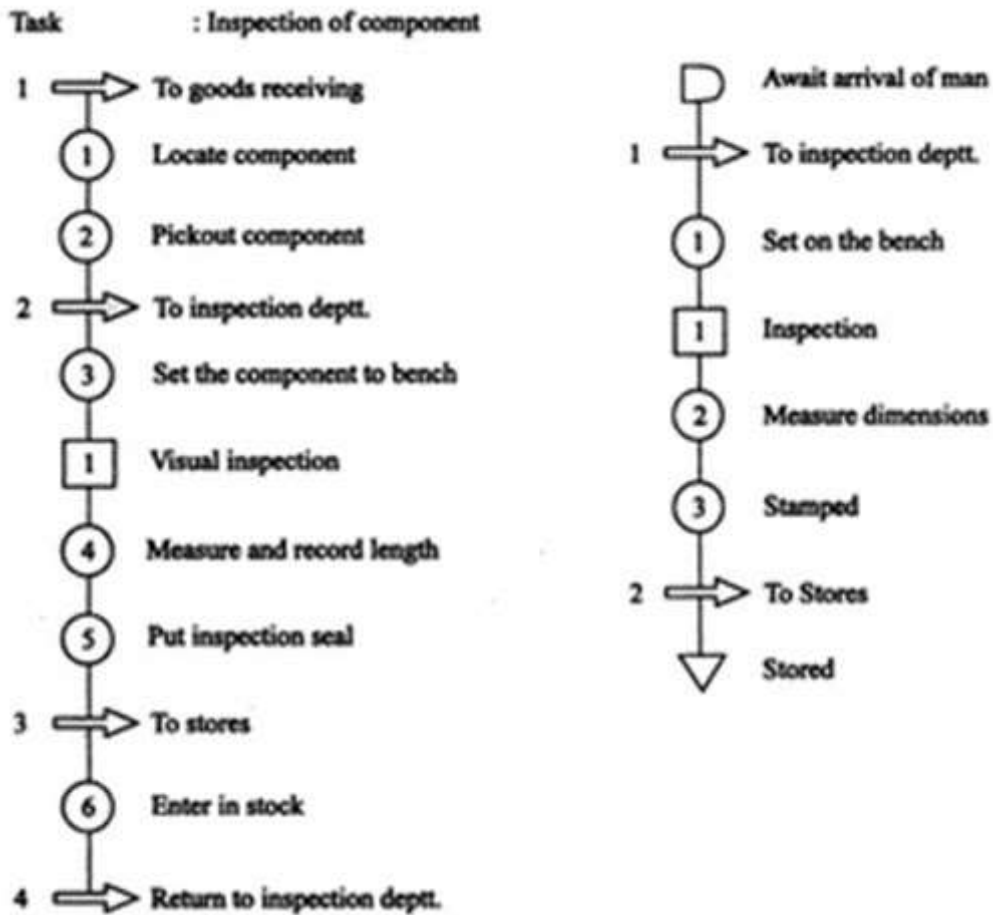


Mark only one oval.

- ☐ man type flow process chart
- ☐ method type flow process chart
- ☐ material type flow process chart
- ☐ machine type flow process chart
- ☐ none of the above

36. Identify the type of chart using this sketch

2 points

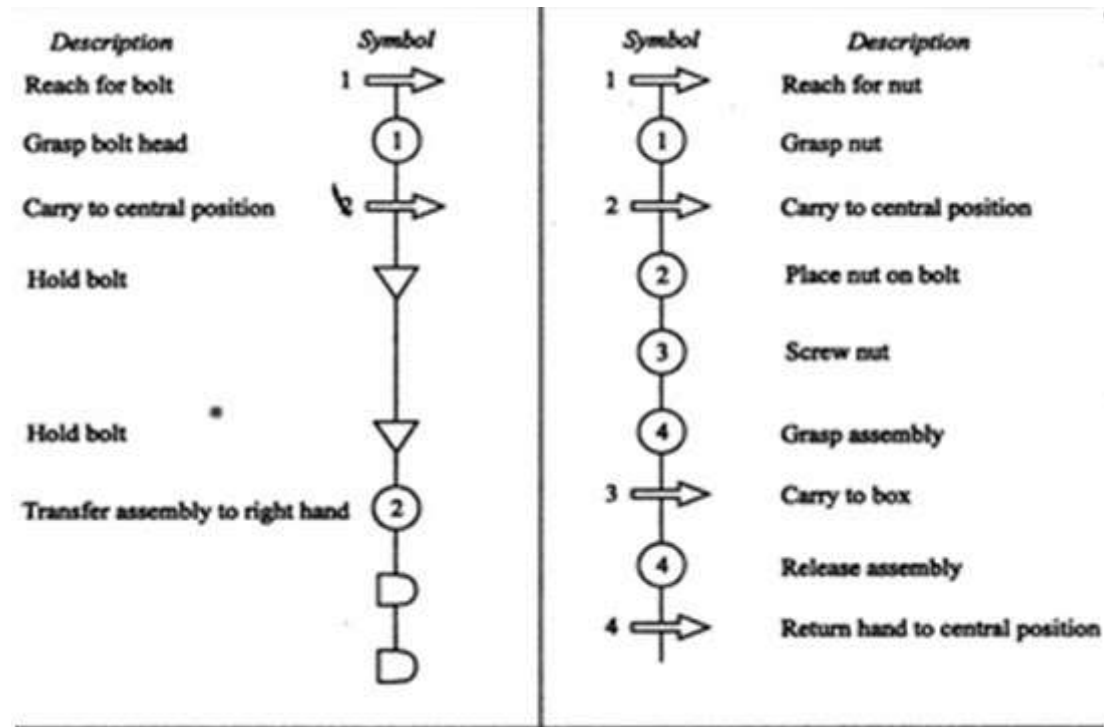


Mark only one oval.

- ☐ man type flow process chart
- ☐ method type flow process chart
- ☐ man and material type flow process chart
- ☐ machine type flow process chart
- ☐ none of the above

37. Identify the type of chart using this sketch for fixing nut and bolt

2 points



Mark only one oval.

- ☐ man type flow process chart
- ☐ method type flow process chart
- ☐ man and material type flow process chart
- ☐ two handed flow process chart
- ☐ none of the above

38. Identify the type of chart using this sketch

2 points

Task	:	Machining of a component
Chart begins	:	The part to be machined lying near machine
Chart ends	:	Machined part lying in the container
Charted by	:
Charting date	:

	Operator			Machine		
0	Description	T	S	*	T	S
0.20	LOAD JOB	0.2		IDLE		
0.28	SWITCH 'ON'	0.08		IDLE		
0.36	SWITCH 'ON'	0.08		IDLE		
1.86	IDLE			MACHINING OF PART "Autocycle"	1.5	
1.91	PICKUP PART	0.05		IDLE		
1.96	KEEP IN TRAY	0.05		IDLE		

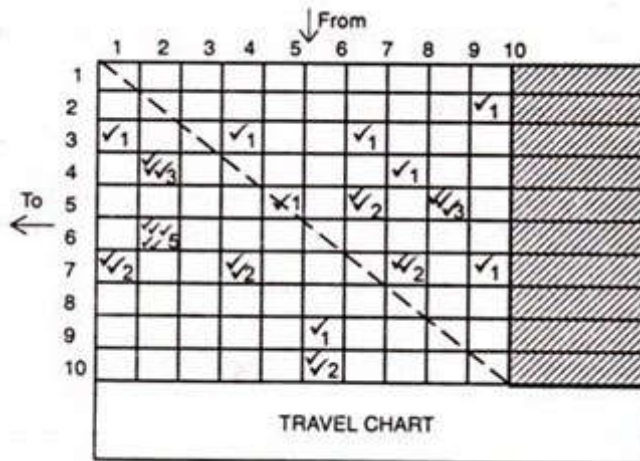
Subject	Cycle time (min)	Time worked per cycle	Percentage utilisation
OPERATOR	1.96	0.46	23.4
MACHINE	1.96	1.5	76.6

Mark only one oval.

- ☐ man type flow process chart
- ☐ method type flow process chart
- ☐ man and material type flow process chart
- ☐ multiple activity chart
- ☐ none of the above

39. Identify the type of chart using this sketch

2 points

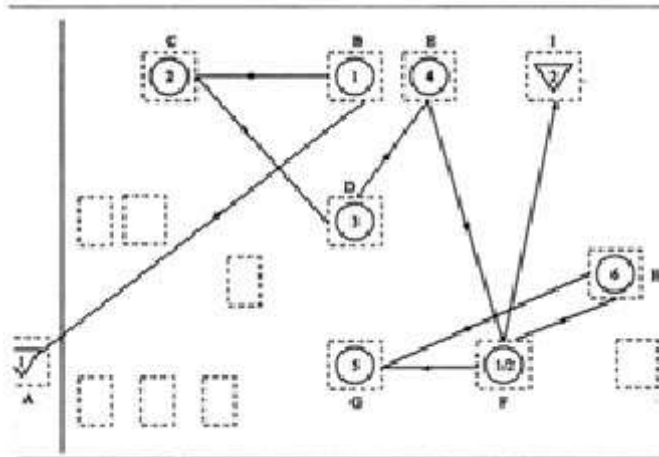


Mark only one oval.

- ☐ travel chart
- ☐ string chart
- ☐ man and material type flow process chart
- ☐ multiple activity chart
- ☐ none of the above

40. Identify the type of chart using this sketch

2 points




Mark only one oval.

- ☐ travel chart
- ☐ string chart
- ☐ man and material type flow process chart
- ☐ multiple activity chart
- ☐ none of the above
- ☐ Other: _____

41. which work study involves the following symbols

2 points

SYMBOL













Mark only one oval.

- ☐ method study
- ☐ motion study
- ☐ micro motion study
- ☐ work measurment
- ☐ none of the above
- ☐ Other: _____

42. identify the type of chart

2 points

Operation :				Film No. :			
Part drawing No. :				Chart No. :			
Method : Present/Proposed				Date :			
Operation No. :				Charted by:			

Wink counter Reading	Left hand description	Therbligs	Time	Time in 200/m	Time	Therbligs	Right hand description

Mark only one oval.

- ☐ travel chart
☐ simo chart
☐ multiple activity chart
☐ work measurment
☐ none of the above
☐ Other: _____

43. comment for further improvement

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