

SIR ISSAC NEWTON COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-2021 (ODD SEMESTER) IV YEAR

ME8793 PROCESS PLANNING AND COST ESTIMATION- MODEL EXAM MCQ

DATE : 01-12-2020

REG NO:

MARKS : 60 MARKS

PART-A (30X1=30 MARKS)

1. A graphical device used to determine- the break-even point and profit potential under varying conditions of output and costs, is known as

- A.Gnatt chart
- B.Flow chart
- C.Break-even chart
- D.PERT chart

2. Break-even analysis consists of

- A.Fixed cost
- B.Variable cost
- C.Fixed and variable costs
- D.Operation costs

3. Break-even analysis shows profit when

- A.Sales revenue > total cost
- B.Sales revenue = total cost
- C.Sales revenue < total cost
- D.Variable cost < fixed cost

4. In braek-even analysis, total cost consists of

- A.Fixed cost
- B.Variable cost
- C.Fixed cost + variable cost
- D.Fixed cost + variable cost + over-heads

5. The break-even point represents

- A.The most economical level of operation of any industry
- B.The time when unit can run without I loss and profit
- C.Time when industry will undergo loss
- D.The time when company can make maximum profits

6. In the cost structure of a product, the selling price is determined by the factors such as

- A.Sales turn over
- B.All of the above.
- C.Various elements of the cost
- D.Buyers' capability to pay the cost

7. Work study is concerned with

- A.Improving present method and finding standard time
- B.Motivation of workers
- C.Improving production capability
- D.Improving production planning and control

8. Material handling in automobile industry is done by

- A.Overhead crane
- B.Trolley
- C.Belt conveyor
- D.All of the above

9. What does symbol inverted triangle imply in work study

- A.Operation
- B.Inspection
- C.Delay/ temporary storage
- D.Permanent storage

10. What does symbol 'D' imply in work study

- A.Inspection
- B.Transport
- C.Delay/temporary storage
- D.Permanent storage

11. What does \Rightarrow symbol imply in work study

- A.Operation
- B.Inspection
- C.Transport
- D.Permanent storage

12. What does square symbol indicates

- A.Operation
- B.Inspection
- C.Transport
- D.Permanent storage

13. What does symbol 'O' imply in work study

- A.Operation
- B.Inspection
- C.Transport
- D.Delay/temporary storage

14. Basic tool in work study is

- A. Graph paper
- B. Process chart
- C. Planning chart
- D. Stop watch

15. String diagram is used when

- A. Team of workers is working at a place
- B. Material handling is to be done
- C. Idle time is to be reduced
- D. All of the above

16. Work study is most useful

- A. Where production activities are involved
- B. In judging the rating of machines
- C. In improving industrial relations
- D. In judging the output of a man and improving it

17. Micromotion study is

- A. Enlarged view of motion study
- B. Analysis of one stage of motion study
- C. Minute and detailed Motion study
- D. Subdivision of an operation into therbligs and their analysis

18. In micromotion study, therblig is described by

- A. A symbol
- B. Standard symbol and colour.
- C. An activity
- D. Micro motions

19. The allowed time for a job equals standard time plus

- A. Policy allowance
- B. Interference allowance
- C. Process allowance
- D. Learning allowance

20. Micromotion study involves following number of fundamental hand motions

- A. 8
- B. 12
- C. 16
- D. 20

21. The standard time for a job is

- A. Total work content
- B. Basic time + relaxation time
- C. Total work content + basic time
- D. Total work content + delay contingency allowance

22. Job evaluation is the method of determining the

- A. Relative worth of jobs
- B. Skills required by a worker
- C. Contribution of a worker
- D. Contribution of a job

23. Micromotion study is

- A. Analysis of a man-work Method by using a motion picture camera with a timing device in the field of view
- B. Motion study observed on enhanced time intervals
- C. Motion study of a sequence of operations conducted systematically
- D. Study of man and machine conducted simultaneously

24. TMU in niethod time measurement stands for

- A. Time motion unit
- B. Time measurement unit
- C. Time movement unit
- D. Technique measurement unit

25. Time study is

- A. The appraisal, in terms of time, of the
- B. Machine setting time value Of work involving human effort
- C. Time taken by workers to do a job
- D. Method of fixing time for workers

26. Work study is done with the help of

- A.Process chart
- B.Material handling
- C.Stop watch
- D.All of the above

27. Scheduling gives information about

- A.When work should start and how much work should be completed during a certain period
- B.When work should complete
- C.That how idle time can be minimised
- D.Prpcer utilisation of, machines

28. Expediting function consists in keeping a watch on

- A.Operator's activity
- B.Flow of material and in case of trouble locate source of trouble
- C.Minimising the delays
- D.Making efficient despatching

29. Work sampling observations are taken on the basis of

- A.Detailed calculations
- B.Convenience
- C.Table of random numbers
- D.Past experience

30. One time measurement unit (TMU) in method time measurement system equals

- A.0.0001 minute
- B.0.0006 minute
- C.0.006 minute
- D.0.001 minute

PART-B (15X2=30 MARKS)

31. Basic motion time study gives times for basic motions in ten thousandths of

- A.Second
- B.Minute
- C.Hour
- D.Day

32. Choose the wrong statement. Motion study is used for

- A.Improving a work method
- B.Reducing inventory costs.
- C.Designing a work method
- D.Providing a schematic framework

33. ABC analysis deals with

- A.Analysis of process chart
- B.Flow of material
- C.Oraering schedule of job
- D.Controlling inventory costs money

34. Process layout is employed for

- A.Batch production
- B.Continuous type of product
- C.Effeclive utilisation of machines
- D.All of the above

35. For a product layout the material handling equipment must

- A.Have full flexibility
- B.employ conveyer belts, trucks, tractors etc.
- C.Be a general purpol e type
- D.Be designed as special p,urpose for- a particular application

36. Travel charts provide

- A. An idea of the flow of materials at various stages
- B. A compact estimate of the handling which must be done between various work sections
- C. The information for changes required in rearranging material handling equipment
- D. An approximate estimate of the handling which must be done at a particular station

37. Product layout is employed for

- A. Batch production
- B. Continuous production
- C. Effective utilisation of machine
- D. All of the above

38. The most important objective behind plant layout is

- A. Overall simplification, safety of integration
- B. Economy in space
- C. Maximum travel time in plant
- D. To provide conveniently located shops

39. The process layout is best suited where

- A. Specialisation exists
- B. Machines are arranged according to sequence of operation
- C. Few number of non-standardised units are to be produced
- D. Mass production is envisaged

40. The main disadvantage of line organisation is

- A. Top level executives have to do excessive work
- B. Structure is rigid
- C. Communication delays occur
- D. All of the above

41. Queuing theory deals with problems of

- A. Material handling
- B. Reducing the waiting time or idle time
- C. Better utilization of man services
- D. Effective use of machines

42. Which of the following organisations is best suited for steel plants

- A. Functional organisation
- B. Line organisation
- C. Staff organisation
- D. Line, staff and functional organisations

43. Which of the following layouts is suited to job production

- A. Process layout
- B. Product layout
- C. Fixed position layout
- D. Plant layout

44. The objective of time study is to determine the time required to complete a job by

- A. Fast worker
- B. Average worker
- C. Slow worker
- D. New entrant

45. In A-B-C control policy, maximum attention is given to

- A. Those items which consume money
- B. Those items which are not readily available
- C. Those items which are in more demand
- D. Those items which consume more money