

Final Test Semester 3 Paper 17 INDIAN INSTITUTE OF MATERIALS MANAGEMENT WORLD CLASS MANUFACTURING [PGDMM , PGDSCM & L (2 years)]

Instructions:

1. Answer all 50 questions. Each question carries 2 marks Total : 100 Marks
2. Duration 1 Hour.

***Required**

1. Email *

2. Name *

3. Roll Number *

4. 1. When a manufacturing plant has a dynamic process changes and dynamic product changes in its manufacturing range, the plant has to adopt the strategy of

Mark only one oval.

- Carry out mass customization
- Carry out mass production strategies
- Innovation is required to handle manufacturing
- Normal routine manufacturing is adequate

5. 2. One of the concepts followed in the World Class Manufacturing is

Mark only one oval.

- Total Quality Management
- Best human relations management
- Best financial management
- Best in class purchasing management

6. 3. Mass production strategy is used when

Mark only one oval.

- The process is stable and product is dynamic
- The product and the process are stable
- The process is dynamic and the product is stable
- Both the product and the process are dynamic

7. 4. Lean management is a systematic method to

Mark only one oval.

- Design methodology to stabilize production
- Strategy to minimize inventory
- Eliminate waste that is involved in the production process
- Eliminate unwanted manufacturing processes

8. 5. World class manufacturing combines

Mark only one oval.

- Concepts, principles and technologies
- The use of automatic machine tools
- The use of excellent design software with people
- Concepts, machine tools and people

9. 6. Non uniform cycle times in a manufacturing operation is referred to as

Mark only one oval.

Muda

Muri

Mura

Murai

10. 7. Which among these is NOT a process control tool

Mark only one oval.

Control chart

Check sheet

Histogram

Kan Ban

11. 8. What was the analytical tool developed by Pareto

Mark only one oval.

Check sheet

80-20 rule or vital few trivial many

Histogram

Kan Ban

12. 9. One of the important challenges that is faced by organizations in the information age is

Mark only one oval.

Management of people

Maintenance of machine tools

Management of uncertainty

Management of quality

13. 10. Poka - Yok devices are also known as

Mark only one oval.

- Mistake proofing devices
- Jigs and fixtures
- Measuring devices
- Tools

14. 11. CNC machines provide a mix of Accuracy, Speed, Flexibility and

Mark only one oval.

- Low cost
- Repeatability
- Low manpower requirement
- High cost of production

15. 12. Fish Bone diagram is also called as the

Mark only one oval.

- Check box diagram
- Control chart
- Cause and effect diagram
- Histogram

16. 13. _____ are expensive and untrustworthy and does not help to improve product performance

Mark only one oval.

- CNC machines
- Highly skilled labour
- Enterprise resource planning software tools
- Inspections

17. 14. The important pillars of world class manufacturing number in total

Mark only one oval.

5

7

14

10

18. 15. 5S is systematic philosophy that aims at

Mark only one oval.

Aims to reduce the logistics cost of manufacture

Aims to manufacture as fast as possible

Aims to keep everything in place and keeping the work station clean

Aims at keeping the inventory at the lowest level

19. 16. World class manufacturing works on the principle that

Mark only one oval.

There is one best method to achieve the optimum result

There is chance of improvement in any industry and organization must continuously work on the improvements

The best facility is required to achieve the optimum result

It is not possible to achieve world class manufacturing without high cost

20. 17. A flexible manufacturing system

Mark only one oval.

Is a production method that adopts to change in the process and product

Is a production method with variations in the output

Is a production method with varying tolerances for each process

Can vary the production rate depending upon the manpower availability

21. 18. Value added engineering

Mark only one oval.

- Is the process of increasing the cost of the product
- Focuses on lowering cost, improving product functionality and quality
- Focuses on reducing the number of manufacturing stages
- Focuses on reducing the material content and hence reduce inventory

22. 19. Computer integrated manufacturing is the basis of WCM according to

Mark only one oval.

- Edward Deming
- Schonberger
- Gunn
- Hall

23. 20. According to Hall manufacturing excellence can be achieved by

Mark only one oval.

- Just-in-time concept of manufacturing
- Value added manufacturing
- Using the best hardware and software in production
- Having world class skilled personnel in manufacturing

24. 21. Schonberger's principle of WCM revolves around the concept of

Mark only one oval.

- Continuous and rapid improvement
- Value added manufacturing
- Using the best hardware and software in production
- Having world class skilled personnel in manufacturing

25. 22. Fourteen (14) principles of management were introduced by

Mark only one oval.

- Taiichi Ohno
- Edward Deming
- Alvin Toffler
- Halls

26. 23. 5S stands for Seiri, Seiton, Seiso, Seiketsu and Shitsukewhere Shitsuke stands for

Mark only one oval.

- Sort
- Set
- Sustain
- Shine

27. 24. Maskell's model for WCM must

Mark only one oval.

- Redesign the production layout to minimize the movement of materials and men
- Redesign the layout with sufficient space for people to move safely
- Redesign with minimum space to save on production floor area
- Redesign with the layout with floor space to store materials

28. 25. Which model of WCM promotes quality control by the operators and "pride of ownership"

Mark only one oval.

- Edward Deming
- Schonberger
- Gunn
- Maskell

29. 26. Logistics Function refers to the management of

Mark only one oval.

- Transportation of materials to the organization
- Movement of goods within the organization
- Information and material flow which links the suppliers and customers
- Links the material flow to the organization from its vendors

30. 27. Porter's model classifies the operations into two major groups namely

Mark only one oval.

- Manufacturing and marketing
- Procurement and marketing
- Manufacturing and customer support
- Primary and secondary activities

31. 28. Procurement, Infrastructure, technology development and human resource are the

Mark only one oval.

- Main activities of Porter's model
- These are not components of Porter's Model
- The supporting activities of Porter's model
- These activities decide on the efficiency of Porter's model

32. 29. CAD and CAE are

Mark only one oval.

- Computer Aided Design and Customer Aided Engineering
- Customer Aided Development and Customer Aided Engineering
- Computer Aided Design and Computer Aided Engineering
- Computer Aided Development and Computer Aided Engineering

33. 30. SMED stands for

Mark only one oval.

- Small and Medium Engineering Division
- Small and Medium Enterprise division
- Single Minute Exchange of Dies
- Single Managerial and Engineering Development

34. 31. Group Technology is the concept that backs up

Mark only one oval.

- Cellular manufacturing technology
- Working together as a group to maximize production
- Putting together a group of machines to reduce the cost of production
- Forming cells that will reduce the total time required for manufacturing

35. 32. Advantages of cellular manufacturing technology are

Mark only one oval.

- Reduction in the use of raw materials
- Reduction in cycle time, material handling, flexibility and work in process
- Reduced change over time of dies, tools and tackles
- Reduction in manpower for the same volume of output

36. 33. Two key tools used for the purpose of business integration are

Mark only one oval.

- Inventory management and supplier relationship management
- Production management and customer relationship management
- Inventory management and production management
- Enterprise Resource Management and Supply Chain Management

37. 34. The processes that work to reduce non value-added activities and reach perfection is

Mark only one oval.

- Supply Chain Management
- Enterprise resource Management
- Lean Management
- Supply Chain Management and Enterprise Resource Management together

38. 35. In a pull-based production system manufacturing is initiated only

Mark only one oval.

- When demand exists from the next stage of manufacturing
- When sufficient inventory is available to commence production
- When demand projection is made by the marketing department
- To load the machines and keep them occupied

39. 36. Mistake proofing helps to prevent the occurrence of

Mark only one oval.

- Accidental mistakes
- Damages that can happen due to handling
- Accidents
- Additional items are not procured by mistake

40. 37. The primary aim of TPM (Total Productive Maintenance) is to ensure

Mark only one oval.

- The proper implementation of all productivity related products
- To ensure the availability of all spares and consumables required
- To ensure that all machines are maintained in excellent working condition
- To educate all workers in the principles of productivity

41. 38. SPC or Statistical Process Control is

Mark only one oval.

- Use of statistics in the production activities
- A technique used to eliminate rejection with the help of statistical methods
- A technique used to enhance production through statistical methods
- A technique used to reduce manufacturing time through statistical techniques

42. 39. Balance score card is a used by organizations to communicate

Mark only one oval.

- The performance of an individual in the organization
- The strategic intent of the organization based on its mission, vision, etc.
- And penalize the departments on its non-performance
- The score received by the organization from its customers

43. 40. World class manufacturing is looking at

Mark only one oval.

- Reducing the cost of manufacture
- Reducing the defects reported from the customer
- Reducing the time from the time a customer order is received till cash collection
- Reducing the manufacturing steps

44. 41. WCM aims to achieve

Mark only one oval.

- Zero waste, No defects, No failure, zero stock
- Zero idle time, Zero customer outstanding, Zero inventory and idle time
- No defects, No inventory, No customer outstanding and No waste
- No waste, No inventory, No pending customer order and zero failures

45. 42. Business challenges of the information age are

Mark only one oval.

- Risk (uncertainty) management, understanding customer and globalization
- Understanding customer, understanding supplier and market conditions
- Understanding suppliers, understanding technology and human relations
- Wealth creation, customer base enhancement and vendor skill upgrading

46. 43. Customers in the information age demand

Mark only one oval.

- Mass production and low cost
- Individualized requirement with mass manufacturing
- Low cost and limited variety to reduce costs
- Individualized requirement at low cost

47. 44. The information age customer is demanding and this has

Mark only one oval.

- Caused product life cycles to be shorter
- The product life cycle and customer demand are not linked to each other
- Product life cycle in the information age is complex
- Product life cycle has increase in the information age

48. 45. World class manufacturing concerns operate in

Mark only one oval.

- Local markets with local competitors
- Local competitors with export markets
- Global competitors with local markets
- Global markets with global competitors

49. 46. Some of the methods to improve on a continuous basis

Mark only one oval.

- Improve all processes continuously, focus on training and use Kaizen
- Use people with new skills and use of new technology
- Reduce the workforce to improve efficiency
- Reduce material content to reduce costs

50. 47. Six Sigma is one of the tools used to achieve

Mark only one oval.

- Cost reduction in manufacturing
- Waste reduction in manufacturing
- Production excellence in manufacturing
- Used to enhance the skills of the operators

51. 48. Flexible manufacturing systems normally consist of

Mark only one oval.

- The best-in-class manufacturing equipment
- Both hardware and software systems
- Very well trained and experienced workers
- Both best-in-class manufacturing and excellent workers

52. 49. Value of a product is measured by the

Mark only one oval.

- The price paid by a customer
- The ratio of the functionality with that of cost (function/Cost)
- The cost charged to the customer
- The cost of manufacturing plus profit

53. 50. Redesign is one of the main activities of

Mark only one oval.

- Value engineering
- Six Sigma processes
- Kan Ban systems
- Inventory management systems

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