



# BRAINWARE UNIVERSITY

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**Term End Examination 2023**  
**Programme – MBA-2022**  
**Course Name – Production and Operations Management**  
**Course Code - MBA203**  
**( Semester II )**

**Full Marks : 60**

**Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :
  - (i) Evaluate statements given in the question. A critical ratio scheduling.....
    - a) Establishes the relative priorities among various activities on a common basis
    - b) Determines the status of each activity
    - c) Adjusts automatically changes in activity progress
    - d) None of them
  - (ii) Analyse understated statements select wrong one.
    - a) An activity consumes time and resources whereas an event does not consume time or resources
    - b) The performance of a specific task is called an activity
    - c) An event is an instantaneous point in time at which an activity begins or ends
    - d) The turning of a job on the lathe is an event whereas job turned is an activity
  - (iii) Explain the nature of Production process that transforms raw materials into outputs
    - a) Irreversible process
    - b) Reversible process
    - c) Solid objects
    - d) None of these
  - (iv) Identify from the following where facility location selection is needed.
    - a) When the existing business unit has outgrown its original facilities and expansion is not possible
    - b) When a business is newly started
    - c) When the lease expires and the landlord does not renew the lease
    - d) When a business old
  - (v) State the first step in making a correct location choice
    - a) Decide the criteria for evaluating location alternatives
    - b) Evaluate the alternatives
    - c) Evaluate the alternatives
    - d) Make a decision and select the location

- (vi) Write the type of layout where materials are fed into the first machine and finished products come out of the last machine
- a) Product layout  
b) Process layout  
c) Fixed position layout  
d) Cellular manufacturing layout
- (vii) Choose the types of material handling equipment that is must in product layout
- a) Have full flexibility  
b) Employ conveyor belts, trucks and tractors etc  
c) Be a general purpose type  
d) Be designed as special purpose for a particular application
- (viii) Identify the type of layouts that is suitable for mass production
- a) Process Layout  
b) Product Layout  
c) Fixed position layout  
d) Plant layout
- (ix) Application of Process layout is not observed
- a) Where low volume of production is required  
b) Where similar jobs are manufactured on machine  
c) Where machines are arranged on functional basis  
d) Where diverse jobs are manufactured on machines
- (x) Recall the alternative name of Process layout.
- a) Analytical layout  
b) Synthetic layout  
c) Static product layout  
d) None of these
- (xi) Identify limitation of fixed position layout from the given alternatives
- a) Total production cost is less  
b) Material movement is less  
c) Capital investment is minimum  
d) Material movement is more
- (xii) Examine the requirement of applying product layout
- a) Specialized strict supervision is required  
b) Machines cannot be used to their maximum capacity  
c) Manufacturing cost rises with a fall in the volume of production  
d) Machines can be used to their maximum capacity
- (xiii) Analyze the plans to decide the correct one where job scheduling, machine loading, and dispatching are needed.
- a) long-range plans  
b) short-range plans  
c) intermediate-range plans  
d) strategic planning
- (xiv) Analyse understated statements and select the wrong one.
- a) When slack of an activity is zero, it falls only on critical path  
b) CPM technique is useful to minimize the direct and indirect expenses  
c) Critical path of a network represents the minimum time required for completion of project  
d) None of them
- (xv) Evaluate different times given below and judge the time which results in the least possible direct cost of an activity.
- a) Normal time  
b) Slow time  
c) Crash time  
d) Standard time

### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Differentiate between Manufacturing and Service Operations

(3)



3. Define the importance of plant location. (3)
4. Write a short note on VED analysis (3)
5. Evaluate the consumers risk associated with quality control. (3)
6. Analyse principles of materials handling. (3)

**OR**

Explain in brief objectives of project management. (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

7. Evaluate different transformation techniques of converting inputs into output to create or enhance utility. (5)
8. Suppose an organisation is now effectively managed. Evaluate this situation and judge important points that will give an edge of this organisation over its rivals. (5)
9. Analyse the concept of replacement. Explain with example situations where it is required. (5)
10. Discuss importance of statistical quality control in business with suitable example. (5)
11. Describe time study and motion study. (5)
12. Analyse concept of mass production highlighting its important features. (5)

**OR**

Explain advantages and limitations of mass production. (5)

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