

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Bachelor of Business Administration
Course Name – Production & Operations Management
Course Code - BBA304
Semester / Year - Semester III

Time allotted: 85 Minutes

Full Marks: 70

[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 70=70

- 1. (Answer any Seventy)
- (i) Which of the following functions is not a core function of an organization
 - a) The accounting and finance function
- b) The marketing (including sale) function

c) The operation function

- d) The product or service development function
- (ii) Most operation produce a mixture of both products and services which of the following business is closest to producing 'pure' services?
 - a) IT company

b) Counselor /therapist

c) Steel company

- d) A restaurant
- (iii) Which of the following activities is not a direct responsibility of operations management?
 - a) Developing an operations strategy for the b) Planning & controlling the operation operation
 - c) Determining the exact mix of products and services.
- d) Designing the operations products, services & process
- (iv) Operations management is applicable
 - a) Mostly to the service sector
- b) To services exclusively
- c) Mostly to the manufacturing sector
- d) To the manufacturing & service sectors

(v) The field of operations management is shap following fields?	ed by advances in which of the
a) Chemistry and physics	b) Industrial engineering & management science
c) Biology and anatomy	d) Information science
(vi) The five element in the management proce	ss are
a) Plan ,direct , update, lead & surprise	b) Accounting /finance, marketing, operations and management
c) Organize, plan, control, staff and manage	e d) Plan, organize, staff, lead and control
(vii) The responsibilities of the operations man	ager include
a) Planning, organizing, staffing, procuring and reviewing	b) Forecasting, designing, planning, organizing, and controlling
c) Forecasting, designing, operating, procuring, and reviewing	d) Planning , organizing , staffing , leading , and controlling
(viii) Which of the following is not an element	of management process
a) Pricing	b) Staffing
c) Planning	d) Controlling
(ix) Which of the following illustrate an activity	y that does not add value?
a) Training employees	b) Ordering parts from a supplier
c) Making a part	d) Accumulating parts in front of the next work centre
(x) Which of the following statements regarding	g a pull system is true ?
a) Large lots are pulled from upstream stations	b) Work is pulled to the downstream work stations before it is actually needed
c) Manufacturing cycle time is increased	d) Problems become more obvious
(xi) What term describes a vertical expansion of	of job duties in order to give the

worker more responsibility	
a) Job enlargement	b) Job rotation
c) Job enrichment	d) Job design
(xii) What type of process would a paper mill b	e most likely to use?
a) Continuous flow	b) Project
c) Job shop	d) Flow shop
(xiii) What priority rule is being used when job lowest ratio of due date to remaining processing	
a) CR (critical ratio)	b) EDD (earliest due date first)
c) FCFS (first come, first served)	d) S/O (least slack per operation first)
(xiv) Moving from the aggregate plan to a mast	er production schedule requires
a) Rough cut capacity planning	b) Sub-optimization
c) Disaggregation	d) Strategy formulation
(xv) Which of the following statements is true of	of Lean-Six Sigma?
a) Lean principles focus on advanced statistical methods.	b) Lean principles and Six-Sigma are separate bodies of knowledge
c) Lean principles have been developed over a lengthy period of time.	d) Lean principles include the 5Ss framework and practices.
(xvi) Which one of the following descriptions be level as a measure of customer service?	est defines the cycle-service
a) The preferred proportion of annual demand instantaneously filled from stock	b) The number of stock outs tolerated per year
c) The preferred proportion of days in the year when an item is in stock	d) The desired probability of not running out of stock in any one inventory cycle

(xvii) For an item under continuous review, the on-hand inventory is only 20 units and the reorder point R is 100 units. There are no backorders, but there is

one open order for 90 units. Which one of the	following statements is TRUE?
a) There is no need to order at the present time.	b) The current inventory position is 100 units
c) An order should be placed now for 20 units.	d) An order should be placed now for 10 units
(xviii) Process planning describes	
a) How the product will perform	b) How the product will look
c) How the product will be made	d) how easily the product can be maintained
(xix) One solution to the problem of how you of standardization without losing the market advantage of the standardization without losing the market advantage.	9
a) Design for robustness	b) Quality function deployment
c) Modular design	d) Process planning
(xx) The objective of failure mode and effects	analysis is to
 a) Anticipate product failures and prevent them from occurring 	b) Devise ways of minimizing the impacts of product failures when they occur
c) Describe the interrelationships among product failures	d) Quantify the likelihoods of different product failures
(xxi) Which of the following components in a entire QFD process	"House of Quality" drives the
a) Roof matrix	b) Customer requirements
c) Product characteristics	d) All of these
(xxii) New product ideas can come from	
a) Customers	b) Competitors
c) Suppliers	d) All of these
(xxiii) A driverless truck that follows a path of	rails or wires embedded in the

floor is called	
a) an ATC	b) a FMS
c) an AGV	d) All of these
(xxiv) is a strategy for organizing and	controlling a factory rather than
a technology that can be purchased.	
a) FMS	b) CIM
c) CPSS	d) All of these
(xxv) Very high volume commodity products a	re best suited to
a) Projects.	b) Batch production.
c) Mass production	d) Continuous processes
(xxvi) Locating all the drills in one work center and milling machines in yet another work center layout?	
a) Fixed-position layout	b) Product layout
c) Process layout	d) None of these
(xxvii) Cycle time is not	
a) The time required to complete a product from start to finish	b) The maximum allowable time at each work station
c) Daily operating time divided by desired production	d) None of these
(xxviii) A common goal in designing process la	ayouts is:
a) Minimizing the number of workers	b) Minimizing material handling costs
c) Minimizing idle time	d) None of these
(xxix) An assembly line consists of 5 tasks with minutes. The cycle time for the line is 25 minutes number of workstations for this situation is	

a) 1	b) 2
c) 3	d) 4
(xxx) Another term for a process layout is	
a) Job shop layout	b) Functional layout
c) Mixed-model layout	d) Group technology layout
(xxxi) Economies of scale hold when	
a) Construction costs do not increase linearly with output levels	b) Production efficiency increases as workers gain experience
c) Quantity discounts are available for material purchases	d) All of these
(xxxii) A chase demand strategy should be follows:	owed when
a) Worker skill qualifications are high	b) Unemployment rates are low
c) Inventory costs are high	d) All of these
(xxxiii) Which of the following aggregate plan optimal solution?	ning techniques guarantees an
a) Linear programming	b) Search decision rule
c) Management coefficients model	d) All of these
(xxxiv) All of the following statements concernexcept	ning level production are true
a) Level production strategy sets production at a fixed rate	n b) The main costs of level production involve hiring and firing
c) Level production strategy uses inventory to absorb variations in demand	d) All of these
(xxxv) In production planning, the level of deta	ail from highest to lowest is
a) Master production schedule, aggregate plan, material requirements plan	b) Aggregate plan, material requirements plan, master production schedule

c) Aggregate plan, master production schedule, material requirements plan	d) None of these
(xxxvi) Which one of the following is the m dardization?	ost significant disadvantage of stan
a) Frozen designs	b) Interchangeable parts
c) Reduced variety	d) Customized parts
(xxxvii) Robustness of a product is of failure.	related with the probability
a) Directly	b) Inversely
c) Linearly	d) None of these
(xxxviii)	
The process selection should take into accou	ant all of the following EXCEPT:
a) Capacity planning	b) Design of work systems
c) Production forecasts	d) None of these
(xxxix) Low cost, higher volume items requ	iires
a) No inspection	b) Little inspection
c) Intensive inspection	d) 100% inspection
(xl) Which manufacturing facility produce s products with intermediate volumes	some intermediate varieties of
a) Job Shop	b) Project
c) Batch Manufacturing	d) Flow Shop
(xli) Which of the following is a construction	on type algorithm for layout design
a) ALDEP	b) CRAFT
c) SLP	d) None of these

(xlii) In which of the below mentioned activitie ending nodes	es should have same starting and
a) Serial	b) Parallel
c) Both Serial and Parallel	d) None of these
(xliii) What technique deals with the problem of to production lines or individuals that require u	
a) Supply-demand theory	b) PERT
c) Inventory theory	d) Queuing theory
(xliv) A manufacturer has been receiving excessive numbers of defective standard machine parts from a vendor on a regular basis. What is the most effective way to design a formal inspection system for incoming parts?	
a) Queuing analysis	b) Time series analysis
c) Statistical quality control	d) Regression analysis
(xlv) At the completion of the forward and back activity is given by the	kward passes, the slack for an
a) Difference between early start and early finish	b) Difference between early start and latest finish
c) Difference between latest start and early finish	d) Amount of idle labor on the critical path
(xlvi) What type of control chart is used to mor unit?	nitor the number of defects per
a) P Chart	b) R Chart
c) C Chart	d) X Bar Chart
(xlvii) A project has three paths: A—B—C has length of 15 days. A—E—C has a length of 20 statements is correct?	·
a) A—D—C is the critical path.	b) A—B—C has the most slack.

c) The expected duration of the project is d) The expected duration of this project is 25 days. 60 days. (xlviii) If an artificial variable remains in the solution with a positive value after the stopping criterion has been reached, the problem a) Is infeasible b) Is optimal c) Needs a new basis d) Has more than one solution (xlix) What are the two sources of costs in queuing analysis? a) Arrivals and departures b) Arrivals and idleness d) Equipment breakdowns and departures c) Waiting customers and capacity (1) The transportation model method that is used to evaluate location alternatives minimizes total a) Sources b) Destinations c) Capacity d) Shipping Costs (li) What is simulation? a) A quick solution method to problemb) A formalized deterministic approach to solving problem-solving c) A graphical method to problem-solving d) A trial-and-error approach to problemsolving (lii) What is the full form of PERT a) Program Evaluation and Review b) Project Evaluation and Review Technique Technique d) None of these c) Period Evaluation and Review **Technique** (liii) State the full form of ABC b) Always Best Control a) Always Better Control c) Always Behind Control d) None of these

(liv) Which of the following is true for VED an	alysis
a) Material Cost is taken in consideration	b) Essentiality is considered
c) Storage Cost is maximum	d) None of these
(lv) Which if the following is true in case of CP	PM
a) It's the maximum duration of Project	b) It's the minimum duration
c) It's the average time	d) All of these
(lvi) The formula for EF is	
a) ES + Duration	b) LS + Duration
c) ES – Duration	d) All of these
(lvii) Which of the following sequence of activistarting and ending node	ity do not have activities same
a) Serial	b) Parallel
c) Both Serial and Parllel	d) None of these
(lviii) The variance of an activity in project man	nagement is given by the
a) (tp-to)2/6	b) (tp-to/4)2
c) {(tp-to)/6}2	d) None of these
(lix) In which of the following the peak manpov given constraint on the manpower availability	wer requirement is limited to the
a) Resource Allocation	b) PERT
c) Network Crashing	d) Resource Leveling
(lx) Which of the following is the application of existing product with a view to improve its value	•
a) Value Analysis	b) Value Engineering
c) Value Stream Mapping	d) None of these

(IXI) AQL Means	
a) Average Quality Level	b) Acceptable Quality Level
c) Arithmetic Quality Level	d) None of these
(lxii) The other name of Type II Error is	
a) Producer's Risk	b) Consumer's Risk
c) Employee's Risk	d) All of these
(lxiii) The objective of ISO-9000 family of	Quality management is
a) Customer satisfaction	b) Employee satisfaction
c) Skill enhancement	d) Environmental issues
(lxiv) Which of the following is responsible	e for quality objective?
a) Top level management	b) Middle level management
c) Frontline management	d) All of these
(lxv) The following is (are) the machine do	wn time.
a) Waste	b) No material
c) Breakdown	d) All of these
(lxvi) TQM & ISO both focuses on	
a) Customer	b) Employee
c) Both customer and employees	d) None of these
(lxvii) According to Deming, Quality proble	ems are
a) Due to management	b) Due to method
c) Due to machine	d) All of these
(lxviii) While setting Quality objective,	to be considered.
a) Material quality	b) Customer need

c) Market demand	d) All of these
(lxix) helps organization reduc	ce employee turnover and absenteeism.
a) Job design	b) Training & development
c) Wage revision	d) All of these
(lxx) CMM stands for	
a) Capability maturity model	b) Capability monitoring model
c) Capability measuring model	d) Capability matching model