INTERMEDIATE EXAMINATION Syllabus 2016

Paper 9: OPERATIONS MANAGEMENT & STRATEGIC MANAGEMENT (OMSM)

Time Allowed: 3 Hours Full Marks: 100

There are Sections A, B, C and D to be answered subject to instructions given against each.

Section A You are required to answer all the questions. Each question carries 1 mark. Instructions: Each question is followed by 4 Answer choices and only one is correct. You are required to select the choice which according to you represents the correct answer.						
1.	a.	\/\hi/	ch of the following is not the technique of sales forecasting?			
Τ.	a.	(i)	Survey of buyer's intentions or the user's expectation method			
		(ii)	Collective opinion or sales force composite method			
		(iii)	Server idle time	Α		
		(iv)	Experts' opinions			
	L	\A/bia	sh of the following is not the scene of eneration management?			
	b.		ch of the following is not the scope of operation management?			
		(i)	Production Planning and Control			
		(ii)	Plant layouts and Material Handling			
		(iii)	Customer service	Α		
		(iv)	Materials Management			
	c.	c. The fundamental criteria in valuation of a job into account are to make a specific list of factor which affect job values. The many factors are:				
		(i)	Working conditions.			
		(ii)	Qualifications required of the worker,			
		(iii)	Job responsibilities,			
		(iv)	All of the above	Α		
	d.	Whic	ch of the following is not the operating characteristic of the queuing system?			
		(i)	System length			
		(ii)	Waiting time in the queue			
		(iii)	Service-in-random-order (SIRO)	Α		
		(iv)	Total time in the system			
	e.	Production or operations strategy is directly influenced by product design because each product characteristic directly affects how the product can be made or produced (i.e., process technological and process design). State your opinion for this statement.				
		(i)	Strongly Agree	Α		
		(ii)	Strongly Disagree			
		(iii)	Neutral			
		(iv)	None			
	f.	Proc	ess Design is concerned with:-			
		(i)	Expected volume of output.			
		(ii)	Kind of labour skills available, amount of labour available and their wage rates.			

	(iii)	Whether the process should be capital-intensive or labour- intensive.	
	(iv)	All of the above	Α
g.		range forecasting is useful in:	
	(i)	Plan for Research and Development	
	(ii)	To Schedule jobs in production	
	(iii)	In purchasing the material to meet the present production demand	Α
	(iv)	To assess manpower required in the coming month.	
h.	Most	t suitable layout for job Production is	
	(i)	Line layout	
	(ii)	Matrix layout	
	(iii)	Process layout	Α
	(iv)	Product layout	
i.	The	starting point of Production cycle is:	
	(i)	Product design	
	(ii)	Production planning	
	(iii)	Routing	
	(iv)	Market research	Α
j.	Previ	entive maintenance is useful in reducing	
	(i)	Inspection Cost,	
	(ii)	Shutdown Cost,	Α
	(iii)	Cost of premature replacement,	
	(iv)	Set-up cost of machine	
k.	Idon	tify which one of the following statements is TRUE?	
κ.	(i)	Merit Rating is used to determine the cost of a product	
	(ii)	Breakdown maintenance doesn't require use of standby machines.	
	(iii)	Project costs increase as the duration of the project increases.	Α
	(iv)	Production planning and control is essentially concerned with the control of Finished	
	(10)	goods	
l.	Tho	effective management of capacity is the most important responsibility of production and	1
١.		rations management. Thus, Capacity planning is concerned with finding answers to the b	
	ques	tions regarding capacity such as:	
	(i)	What kind of capacity is needed?	
	(ii)	How much capacity is needed?	
	(iii)	When this capacity is needed?	
	(iv)	All of the above	Α
m.	Whic	ch of the following is not the basic type of production control?	
	(i)	Load control	
	(ii)	Block control	
	(iii)	Budget control	Α
	(iv)	Special project control	
n.	Ther	e are two aspects of a service system namely; structure of the service system, and the s	speed
•••	1	rvice. State your opinion for this statement.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	(i)	Strongly Agree	Α

		(ii)	Strongly Disagree		
		(iii)	Neutral		
		(iv)	None		
	0.	For a	en entrepreneur:		
		(i)	Mission is before the vision		
		(ii)	Vision or mission are un-important issues		
		(iii)	Vision is before the mission.	Α	
		(iv)	Both are developed simultaneously.		
	p.		rd of directors has certain basic task as follows:		
		(i)	To define the corporate mission and stop irregular practice		
		(ii)	To design the course of strategic options and appointment of top management		
		(iii)	To set the ROI and other business performance targets	Δ.	
		(iv)	Both (i) and (ii)	Α	
	~	A ctu	rategy is usually successful when the other S's in the 7-S framework fit into or suppor	rt tha	
	q.	1	egy. Which of the following is not an element of the framework?	t the	
		(i)	Shared Vision	Α	
		(ii)	Style Style		
		(iii)	Structure		
		(iv)	Systems		
		(10)	Systems		
	r.	A Oı	uestion Mark in BCG Matrix is an investment, which		
		(i)	Yields low current income but has bright growth prospects.	Α	
		(ii)	Yields high current income and has bright growth prospects.		
		(iii)	Yields high current income and has bleak growth prospects.		
		(iv)	Yields low current income and has bleak growth prospects.		
	s.	The	strategy of the TATA group in India could be viewed as a good example of		
	<u> </u>	(i)	Conglomerate diversification	Α	
		(ii)	Market development	- / \	
		(iii)	Cost Leadership		
		(iv)	Concentric diversification		
		(**/			
	t.	Bend	chmarking is:		
		(i)	The analytical tool to identify high cost activities based on the 'Pareto Analysis'		
		(ii)	The search for industries best practices that lead to superior performance	Α	
	· <u> </u>	(iii)	The simulation of cost reduction schemes that help to build commitment and		
			improvement of actions		
		(iv)	The process of marketing and redesigning the way a typical company works		
			Section B		10 × 2
	<u>Inst</u> r		ou are required to answer all the questions. Each question carries 2 marks. s: Each question is followed by a space where you are required to type your answer.		= 20 Marks
2.	a.	Δlin	near Programming problem has how many basic parts? What are the parts?		
	u.		e your answer here		
		1	, the objective function and the constraint set.		
		ļ			
	b.	How	do we know the arrangement of a production line so that there is an even flow of produc	tion	

		from one workstation to the next, i.e. so that there are no delays at any work station that will	
		leave the next workstation with idle time?	
		Type your answer here Line balancing	
	c.	This is a written document that specifies in detail the firm's marketing objectives and how marketing management will use the controllable marketing tools such as product design, channels, promotion and pricing to achieve these objectives. Name the document.	
		Type your answer here Marketing Plan	
	d.	Name the act of releasing the production documents to production department is known Type your answer here Dispatching	
	e.	Name the device of expressing the ratio between outputs and the inputs of the resources numerically.	
		Type your answer here Productivity Index	
	f.	Which method is used in scheduling a project?	
		Type your answer here PERT & CPM	
	g.	Name the method where the planner plans each operation to be done at work centers and the sequences of operations.	
		Type your answer here Operational Planning	
	h.	Name the process that involves drastic measures or break-through improvements to improve the performance of a firm. It involves the concept of clean-slate approach or starting from scratch in redesigning the business processes.	
		Type your answer here Re-engineering	
	i.	What relates to achieving corporate objectives for short-run and/or long-run?	
		Type your answer here Corporate Plans	
	j.	This strategy is a process of entering new industries distinct from a company's core or original industry, to make new kinds of products that can be sold profitably to customers in these new industries. Name the strategy.	
		Type your answer here Diversification strategy	
		Section C	12 × 4
	Instr	You are required to answer any 4 out of 6 questions in this section uctions: Each question is followed by a space where you are required to type your answer.	= 48 Marks
3.	a.	Discuss the term 'Enterprise Resources Planning'. What does it involve? Type of answer here	8
		Enterprise resource planning, popularly known as ERP, is today's buzz-word in the corporate world. Companies' world-wide use ERP to integrate business processes and thereby reduce costs and increase productivity. It has established its base as a global phenomenon. Traditionally, companies developed isolated computer applications to suit and satisfy each of their functional segments such as sales, purchase, production, inventory, personnel and accounts. Materials Requirement Planning (MRP I) and Manufacturing Resource Planning re (MRP II) were developed basically to address the requirements of the manufacturing set-up. But the information available in various functional segments was so scattered that it was almost impossible to consolidate the information and provide the same to the people in the top management to enable them to take vital business decisions. Hence, the companies, whether in the manufacturing or the	

		service sector have been searching for the 'total solution' on an integrated system which could provide for the information needs of the entire enterprise. ERP software was developed to provide such a 'total solution' to the business enterprise. To be highly successful in today's global competitive market, it is necessary that business enterprises continuously strive for developing a high level of interaction and coordination along the supply chain and improve in the area of quality, time to reach the market, customer satisfaction, performance and profitability. The ERP software fulfills this	
		need.	
		Thus, to conclude ERP serves the following purposes: This, business process management software package developed for optimum use of resources of an option of a planned manner.	
		of an enterprise in a planned manner. • ERP integrates the entire enterprise starting from the supplier to the customer, covering logistics, financial and human resources. This enables the enterprise to increase productivity by reducing costs.	
		ERP is a package for cost saving. Once the ERP is implemented, a single solution addresses the information needs of the whole organisation.	
	b.	What are the factors affecting determination of plant capacity?	4
		Type of answer here The factors affecting determination of plant capacity are as follows: 1. Capital investment required,	
		2.Changes in product design, process design, market conditions and product life cycles, 3.Flexibility for capacity additions,	
		4.Level of automation desired,	
		5.Market demand for the product	
		6.Product obsolescence and technology obsolescence and	
		7. Type of technology selected	
4.	a.	State the importance of the concept of productivity.	8
		Type your answer here The importance of the concept of productivity can be viewed from the following points:	
		To beat the competition: It is an age of cut-throat competition. There may be other commodities	
		which can serve as the substitutes of the terms 'product' and can attract the consumers'	
		purchasing power. The firm whose productivity is higher can only beat the competition and can	
		exist in the market for long.	
		2. Guide to Management: The productivity indices are very useful for the management and can be used for different purposes. These indices can serve as a valuable guide to the management for improving the performance of its enterprise. The productivity measures can be used for the following purposes: (a) Strategic: With the help of productivity indices, the efficiency of different firms can be measured, analysed and compared. The necessary steps can be taken to improve the productiveness of the firm taking in view the productiveness of the other competitive	
		firms. (b) Tactical: Different units or the sectors of the firm can also be compared as regards to their productivity and the productivity of the less productive units or sectors can be improved. (c) Planning: A firm uses different inputs in producing the goods. A comparison of relative benefits	
		accruing from the use of different inputs can be had and the most beneficial input can be used in production. It helps the management to plan for the future. (d) Administration: Productivity indices indicate the progress of the firm over a period of years. The productivity of different inputs, including labour, can be measured individually. The individual productivity indices help the management in bargaining with the labour leaders, trade unions and the Government in case of	
		labour disputes regarding welfare activities. Thus administration can be improved with the help of productivity indices. 3. An Indicator of Progress: In economically backward countries, productivity movement is basic	

		better, cheaper product or prov Thus productivit 4. Maximum uti consumers at the the maximum productivit 4. Maximum productivit 5. Key to Nation Higher productivindustry to offer The working conprofits. Thus high western countr 6. Prosperity to working conditional labourers. Thus 7. Other Uses: (can be used for cheaper goods)	, quicker and iding a service ty is an aspect lisation of Scale lowest possible extendare designed in the layout vity is an independent of the producties' prosperity is an independent of the public their standard i) Higher production of the public impetitive standard in the layout in the lay	d safer ways te. In an urge at of basic pro arce Resource sible cost, the toprovide I to facilitate of the plant a The produce ex of more pe general pul wages of we tivity is the ty lie in incre e higher pro wages and s rd of living is ductivity incre and moderni c, well-off stare ength of the	of doing a just to improve to ogress. es: In order to the productivity full satisfaction more efficient work, between the ctivity, in factoroduction with the conduction with the conductivity is a salaries to work improved. The conduction with the conductivity is a salaries to work improved. The conduction with the conductivity is a salaries to work improved. The conduction with the conductivity is a salaries to work improved. The conduction with the conductivity is a salaries to work improved. The conductivity is a salaries to work improved.	ob which couche productivity of provide the strong of customent work involvater working entitles and research the same interpretates and research the same increases the profits and research the same increases the profits and because increases the same increases the sa	mind and a considered be either manually, new invention articles or commitise the available rs. The productiving less fatigue to a committee synonymous at lower consults in expansion dustrialists too way. The secrets of the secret	odities to the resources to vity processes to workers by simplification as to progress. The enables of markets, will get larger of Japan and the activities to industry that the firm due to position. (iii) It	
	b.	State the Object							4
5.	a.	(i) The over (ii) To achie (iii) To redu (iv) To redu (v) To ensu	rer here rall objective eve the desir ce the devel ce the cost o ure reducibili rested by the	e is profit ger ed product q opment time f the produc ty or manufa	neration in the uality. and cost to tt. acturability (d	he minimum. esign for man	ufacturing and a	ients namely;	5
		Food Option 1 2 3 4 Threshold Need	Nutrition Vitamins 2 5 7 5	the minimur e four kinds	n cost at wh	ich he can in ons available.	n his regular die iclude these afo Formulate an LI Rate per unit 40 45 65 50	rementioned	
		Type your answ To Minimize Z = 2 X 1 + 5 X 2 + 7 1 X 1 + 3X 2 + 7	Rs. (40 X 1 + X 3 + 5 X 4 ≥	750 (Vitamii	ns)				

		$7 \times 1 + 4 \times 2 + 6 \times 3 + 3 \times 4 \ge 265$ (Proteins)							
		$3 \times 1 + 6 \times 2 + 7 \times 3 + 4 \times 4 \ge 600 \text{ (Fats)}$							
		X 1 , X 2 , X 3 + X 4 each≥ 0							
	b.	Provide an overview of JIT manufacturing.		7					
		Type your answer here							
		Overview of JIT manufacturing JIT manufacturin	g includes many activities :						
		(i) Inventory reduction: JIT is a system for reducing inventory levels at all stages of production viz.							
		raw materials, work-in-progress and finished go							
			ure for improving quality both within the firm and						
		outside the firm.							
			components such as set-up and move times are						
		significantly reduced.							
			JIT gives the buying organisation greater power in						
			m a situation where multiple suppliers are used to						
			used for supplying most of the parts. With fewer						
			ower because it is making larger purchases from						
		each vendor. Also, the buying organisation can now impose higher requirements on each supplier							
		in terms of delivery and quality.							
		(v) Continuous Improvement: In the JIT system, existing problems are corrected and new problems							
		identified in a never-ending approach to operations management. (vi) Total Preventive Maintenance: JIT emphasises preventive maintenance to reduce the risk of							
		equipment break-downs which may cause production hold ups and increase in manufacturing							
		cycle time due to delays.							
		(vii) Strategic Gain: JIT provides the firm's management with a means of developing, implementing							
		and maintaining a sustainable competitive advantage in the market place .							
6.	a.	. What are the objectives of maintenance?							
	a.	what are the objectives of maintenance:		6					
1	a.	Type your answer here		6					
	a.			6					
	a.	Type your answer here The objectives of maintenance are: (i) To keep all the production facilities and oth	er allied facilities such as building and premises,	6					
	a.	Type your answer here The objectives of maintenance are: (i) To keep all the production facilities and oth power supply system, etc. in an optimum working the system of t	ng condition,	6					
	<u>.</u>	Type your answer here The objectives of maintenance are: (i) To keep all the production facilities and oth power supply system, etc. in an optimum workin (ii) To ensure specified accuracy to products and	ng condition, d time schedule of delivery to customers,	6					
	<u>a.</u>	Type your answer here The objectives of maintenance are: (i) To keep all the production facilities and oth power supply system, etc. in an optimum workin (ii) To ensure specified accuracy to products and (iii) To keep the down time of the machine at a	ng condition,	6					
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		It is about choosing things to do and also about the people who will do them. It is about choosing things to do.						
7.	a.	Describe the types of strategic control systems.	7					
		Type your answer here						
		Types of Strategic Control Systems:						
		• Personal Control - It is the desire to shape and influence the behavior of a person in a face to						
		face interaction in order to achieve the organisation's goals. Direct supervision is the most						
		common form of personal control as it helps						
		in identifying the problems faced by subordinates and better man management. Personal control may also come from group of peers when people work in teams. Here personal control is						
		all about possibility of learning to occur and competencies to develop.						
		Output control - This system involves the estimation and forecasting of appropriate performance goals for each unit (division, department and employees and then measure the						
		performance goals for each unit/division, department and employees and then measure the						
		actual performance relative to these goals. It is often observed that the organisation's reward system is linked to performance on these goals. It can						
		therefore be concluded that the output control system also provides an incentive structure for						
		motivating employees at all levels of the organisation.						
		Behaviour control - The establishment of a comprehensive system of rules and procedures to						
		direct the actions or behaviour of divisions, functions and individuals is called behaviour control.						
		The main purpose of having behavior control is not to specify goals but to standardise the way of						
		reaching them. It is felt that if rules are standardised then outcomes are predictable. It is of						
		utmost importance that the management reviews behaviour controls over time.						
		The rules that have been established tend to increase over time leading to inflexibility to react to						
		the changingenvironment thereby adversely affecting the organisation's competitive advantage.						
		the shangingent in chinese thereby daversely arresting the organisation is competitive davantager						
	b.	Describe core competence.	5					
		Type your answer here	_					
		Core competences are activities or processes that critically underpin an organisation's competitive						
		advantage. The core competences have the following characteristics (i) Provide distinctive						
		advantage for the firm (ii) Difficult for the competitors to imitate - Competence is rare -						
		Competence is concerned with managing complex activities or processes - Competitors are not						
		clear which resource or competences have caused the success of the firm. This is						
		known as causal ambiguity - The competence is embedded in the culture (iii) They make a						
		significant contribution to customer value and the end products offered by the firm (iv) They provide access to a wide variety of markets In order to understand this let us take the case of						
		Honda. Honda's core competence lies in design and manufacture of engine and its end products includes motorcycles, cars, generators, lawn-mowers, etc. Similarly the core competences of						
		Canon are optics, imagery and microprocessors and its end products includes cameras, fax						
		machine,image-scanners, etc. Core skills are fundamental resources of an organisation. It is very						
		important that organisation's should understand the process of developing core competence.						
		Building core competence is a time consuming and challenging exercise. The core competency						
		building process has three stages –						
		Developing the ability to do something by upgrading or expanding the skills.						
		• Learning to perform the activity consistently well, so that it transforms in to a competence or						
		capability. Sharpening performance such that it becomes better than rivals at performing the						
		activity, thus raising the competence to the rank of a distinctive competence (or competitively						
		superior capability). This opens an avenue to competitive advantage.						
		We are trade to the first trade	4 -					
8.		You are required to write any Short Note on any 4 out of 5.	4 × 3 =					
			12					
			Marks					

a.	Manufacturing as competitive advantage.					
	Type your answer here In the past production was considered to be like any other function in the organisation. When demand was high and production capacities were inadequate, the concern was to somehow muster all inputs and use them to produce goods which would be grabbed by market. But today's					
	scenario is contrasting. Plants have excess capacities, competition is mounting and firms look and gain competitive advantage to survive and succeed. Interestingly, production system offers vast scope to gain competitive edge and firms intend to exploit the					
	potential. Total Quality Management (TQM), Time-Based Competition, Business Process Reengineering (BPRE), Just-in-Time (JIT), Focused Factory, Flexible Manufacturing Systems (FMS), Computer Integrated Manufacturing (CIM), and The Virtual Corporation are but only some techniques which the companies are employing to gain competitive advantage.					
b.	Material Requirements Planning.					
	Type your answer here					
	Material requirement planning (MRP) refers to the basic calculations used to determine component requirements from end item requirements. It also refers to a broader information system that uses the dependence relationship to plan and control manufacturing operations. MRP is a technique of working backward from the scheduled quantities and needs dates for end items specified in a master production schedule to determine the requirements for components needed to meet the master production schedule. The technique determines what components are needed, how many are needed, when they are needed and when they should be ordered so that they are likely to be available as needed. The MRP logic serves as the key component in an information system for planning and controlling production operations and purchasing. The information provided by MRP is highly useful in scheduling because it indicates the relative priorities of shop orders and purchase orders. "Materials Requirement Planning (MRP) is a technique for determining the quantity and timing for the acquisition of dependent demand items needed to satisfy master production schedule requirements." MRP is one of the powerful tools					
	that, when applied properly, helps the managers in achieving effective manufacturing control.					
c.	Properties of Aggregate Planning .					
	Type your answer here					
	To facilitate the production manager, the aggregate planning must have the following characteristics:					
	 (i) Both out put and sales should be expressed in a logical overall unit of measuring. For example, an automobile manufacturing company can say 1000 vehicles per year, without giving the number of each variety of vehicle. Similarly, a paint industry can say 10,000 litres of paint and does not mention the quantities of each variety of colour. (ii) Acceptable forecast for some reasonable planning period, say one year. 					
	 (iii) A method of identification and fixing the relevant costs associated with the plant. Availability of alternatives for meeting the objective of the organization. Ability to construct a model that will permit to take optimal or near optimal decisions for the sequence of planning periods in the planning horizon. (iv) Facilities that are considered fixed to carry out the objective. 					
	(17) Facilities that are considered fixed to earry out the objective.					
	Advantages of Strategic Business Units .					
d.	Advantages of Strategic Business Offics.					
d.	Type your answer here					
d.	Type your answer here Advantages:					
d.	Type your answer here Advantages: (i) Promotes accountability since units' heads are responsible for individual SBU profitability					
d.	Type your answer here Advantages:					

	e. Limitations of the BCG Model . Type your answer here											
	Тур											
			atrix produces a fr			_	_					
	- 1		ossible to compar	e many bus	siness unit	s at a gland	ce. But BC	G Matrix is no	t free from			
	lim	itations,	such as-									
	1.	also. Thus, the true nature of business may not be reflected.										
	2.		t is not clearly def			etalia e de Cue	T I	. 1.1.1				
	3.	_	narket share does igh market share.	not always	leads to r	lign profits	s. There are	e nigh costs ais	so involved			
	4.		h rate and relative	e market sha	are are not	t the only in	ndicators o	f profitability.	This model			
	"		s and overlooks o					. p. c				
	5.		es, dogs may help				mpetitive a	dvantage. The	ey can earn			
		even n	nore than cash co	ws sometim	ies.							
	6.	This fo	ur-celled approac	h is conside	red as to b	e too simp	olistic.					
				Soc	tion D					12		
			You are required			estions in th	his section			Mar		
In	structio		question is follo		-				wer.			
			•	· ·		•	•					
	booms every year. The company is based out of Kolkata and has 3 plants in the outskirts of the city. In order to meet the regular demand of the retailers, they keep some products in their local warehouses in and around Kolkata. They currently have 4 such warehouses. During the pandemic period the business suffered quite some loss. So, the company decided to reduce costs wherever possible and do their activities efficiently. They are now willing to find the best solution for reducing its cost of transportation from the plants to the warehouses, such that the demand is also met. Luckily, the company keeps a record of the supply and demand of the plants and the warehouses											
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	a.		ory of SBU is the	e butter of Del	light Ltd.? E	xplain brie	efly				2
		The importa	ash cows need	ture of cash co						ls of cash income. high cash returns,	

	Type your answer here Dogs. Dogs are products with a low share of a low growth market. They may be ex-cash cows that have now fallen on hard times. Dogs should be allowed to die, or should be killed off. Although they will show only a modest net cash outflow, or even a modest net cash inflow, they are 'cash traps' which tie up funds and provide a poor return, on investment, and not enough to achieve the organisation's target rate of return.	
C.	What are stars?	2
	Type your answer here Stars are products with a high share of a high growth market. In the short term, these require capital expenditure, in excess of the cash they generate, in order to maintain their market position, but promise high returns in the future.	

END