## OM - Exam Prof Taisch 15.06.21 -Phase 1 R3 Pinzone (in pres. BL27 08): from **DECI to GAST**

- Choose the correct answer for each question just one answer is the correct one
- You do not lose points if you choose a wrong answer
- You have 35 minutes to submit from the opening of this form
- Check the time and Submit before the deadline, the starting time and submitting time are stored automatically by the system
- This is NOT an open book exam, you cannot use your notes, books, slides of the course or surf the internet
- You are not allowed to communicate with others during the exam

Hola, Adriana: al enviar este formulario, el propietario podrá ver su nombre y dirección de correo electrónico.

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- 1. Input Your Personal Code (the 8-digit one) \*

10785000

2. Input your Surname \*

Garcia

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Adriana			

	33/35 questions CORRECT
4. Which is the longest time in an operations system? (1 Punto)	
Lead Time	
○ Value adding time	
Not-value adding time	
Throughput time	
5. In the HQ case, which of the following is not a consistent decision the consolidated market?  (1 Punto)	n according to
Work procedures strictly recommended.	
<ul> <li>Incentives systems based on quality conformance and delivery speed object</li> </ul>	tives.
Customer base made of few big customers.	
Meeting the demand according to MTS logic.	
6. What are the "CONs" of the leading strategy for capacity manage (1 Punto)	ment?
lower production costs, lower impact from overestimating demand, high pla utilization	ant
outbound cash flow, higher impact from overestimating demand, higher procests	oduction
lower impact of unforeseen events and underestimating demand, spare part better delivery reliability	rts capacity,
O lower impact of unforeseen events, high plant utilization, better delivery rel	liability

Qualifier?  (1 Punto)
Company's quality performance is very good
The performance defines the competitive advantage of the company
If company's performance gets worse, the company loses order
If company's performance improves, the company gains more order
8. In the HQ case, which are the most significant performance to compete the new market?  (1 Punto)
Quality (conformity) and time (delivery reliability)
Price and quality of design
Time (speed), price and flexibility (variety)
Time (speed), flexibility (product and plan), quality of design
9. How would you define the Heuristic EMSR method? (1 Punto)
An iterative method used to maximize the profit by appropriately allocating the available capacity whenever there are only three classes of customers. The computation starts from the cheapest class.
An iterative method used to maximize the profit by appropriately allocating the available capacity whenever there are more than two classes of customers. The computation starts from the most expensive class.
An iterative method used to maximize the profit by appropriately allocating the available capacity whenever there are only three classes of customers. The computation starts from the most expensive class.
An iterative method used to set the right overbooking strategy by appropriately allocating the available capacity whenever there are more than two classes of customers. The computation starts from the cheapest class.

10	. Investing in cross-trained employees supports company in:  (1 Punto)
	Reducing demand variability
	Increase time-buffer for customers
	Increase overall capacity
	Making capacity more flexible
11	. Choose the one correct answer: (1 Punto)
	$\hfill \bigcirc$ Cost of Underestimation represents the lost revenue associated with reserving too few seats as discounted fare
	Cost of underestimation represents the cost of reserving too many seats at full fare. As if the empty full-fare seat could have been sold at the discounted price.
	Cost of Underestimation represents the lost revenues associated with reserving too few seats as full fare
	Cost of Underestimation represents the lost profit associated with reserving too few seats as discounted fare
12	In a bar, the barman is able to serve 2 people every 8 minutes. The arrival rate of clients has been estimated to be around 10 people every hour. Estimate the saturation of the barman.  (1 Punto)
	O,2
	<ul><li>0,67</li></ul>
	O,5
	O 1,5

13. Considering a production line, if you want to improve flexibility of planning, which lean technique do you execute? (1 Punto)

Kanban
SMED
○ Value stream mapping
<ul><li>14. You are a manager of a restaurant; if your service process (output) is affected by variability, which lever do you invest in?</li><li>(1 Punto)</li></ul>
Promotion
Standardization of activities
Increasing customer participation in the process
Reservation system
15. When you introduce the "overbooking" and you need to estimate the protection level of full price customers, you have to first estimate the cost of underestimation and cost of overestimation. On what type of customers do you compute the marginal analysis? (1 Punto)
Both the cost of overestimation and cost of underestimation are computed on no-show customers
Both the cost of overestimation and cost of underestimation are computed on full price tickets customers
The cost of overestimation is computed on full price tickets customers while the cost of underestimation is computed on discounted price tickets customers
Both the cost of overestimation and cost of underestimation are computed on discounted price tickets customers
16. Shouldice Case represents a "best practice" of alignment between market and operations. How is its concept built? (1 Punto)
The concept of Shouldice hospital is based on the low price for hernia surgery

		compared to competitors.
		The concept of Shouldice hospital is based on both outcome and experience provided to the patients.
	$\bigcirc$	Shouldice hospital built its concept on the short and predictable time required to patients to recover from hernia surgery.
	$\bigcirc$	Shouldice hospital built its concept on the outcome, namely the high success rate in the hernia surgery.
17.	working the second working the s	e assembly stage of Ryccar Spa company processes 5 variants of bikes and rks 1350 min/day. Average demand is equal to 50 bikes/day. Assembly stage ully dedicated and its availability is 75%. Cycle time to assemble bikes is min/bike. Assembly stage requires a setup every time the variant change. angeover time is equal to 35min/setup. Which of the following EPE for the embly stage is the correct one? puntos)
	$\bigcirc$	EPE= 1,45 days
	$\bigcirc$	EPE= 0,79 days
		EPE= 1,16 days
	$\bigcirc$	EPE= 0,38 days
18.	EPE day Wh who	lor Spa production process is made by 5 stages with the following EPEs: E (S1) = 2,14 days; EPE (S2) = 0; EPE (S3) = 2,51 days; EPE (S4) = 1,42 vs, EPE (S5) = 0,66 days.  Sich is the frequency according to which Sailor Spa is able to produce the ole volume and mix required by the customer?  Punto)
	$\bigcirc$	Every 1,346 days
	$\bigcirc$	It depends on the volume and mix required by the customer
		Every 2,51 days
	$\bigcirc$	Every 0,66 days

<ul><li>19. In the HQ case, which is the most significant performance to compete the consolidated market?</li><li>(1 Punto)</li></ul>
Quality (design).
Price.
Quality (conformity).
☐ Time (speed).
<ul><li>20. What are the "PROs" of lagging strategy for capacity management?</li><li>(1 Punto)</li><li>Lower impact from overstimating demand, low production costs and high plant</li></ul>
utilisation
O Lower impact from overstimating demand, spare part capacity and faster response time
Higher impact from underestimating demand, longer response time and lower delivery reliability
O Lower impact of uncertainty and unforseen events and low production costs
<ul><li>21. You are a manager of a restaurant; if your service process (output) is affected by uncertainty, which lever do you invest in? (1 Punto)</li><li>Reservation system</li></ul>
Standardization of activities
○ Training
Increasing employees participation in process improvement
<ul><li>22. Which of these set of characteristics represent the ideals for yield management?</li><li>(1 Punto)</li></ul>

Variable capacity, perishable inventory, low capacity change cost and product booked in

	advance
	Fixed capacity, perishable inventory, low capacity change cost and ability to segment markets
	Perishable inventory, high capacity change cost, product sold after its use and fixed demand
	Fixed capacity, perishable inventory, high capacity change cost, ability to segment markets, fluctuating demand and product booked or sold in advance
23	Which is the most probable decision you can find if a company decides to drive digital transformation through lean principles: (1 Punto)
	<ul> <li>Automations in order to exploit new technologies for increasing capacity.</li> </ul>
	HMI technologies in order to improve flexibility of operators.
	RFiD technologies in order to track real time product status.
	Machine learning for planning in order to reduce number of setups.
24	In a single queueing system, which are the benefits comparing it with multiple queueing system?  (1 Punto)  Shortening of lead-time  Reduce the anxiety of customers waiting in line
24	In a single queueing system, which are the benefits comparing it with multiple queueing system?  (1 Punto)  Shortening of lead-time  Reduce the anxiety of customers waiting in line  Higher specialization
	In a single queueing system, which are the benefits comparing it with multiple queueing system?  (1 Punto)  Shortening of lead-time  Reduce the anxiety of customers waiting in line

○ 2M/M/1
● M/M/2
26. Which characteristic belongs to a professional service shop compared to mass service? (1 Punto)
Attention to price
Attention to customer specific requirements
Attention to quantity
Process innovation
27. DECAF conditions analysis supports manager in: (1 Punto)
Opening optimal level of stocks
Improving planning of production
Increasing availability of a cell
<ul> <li>Understanding gap for creating continuous flow</li> </ul>
28. Choose the correct answer for M/M/C system (1 Punto)
When system utilization increases for the same number of servers, the number of people waiting in queue increases
When system utilization increases for the same number of servers, the number of people waiting in queue decreases
When system utilization increases for the same number of servers, the number of people waiting in queue remains the same
When system utilization decreases for the same number of servers, the number of people waiting in queue increases

29.	For a local flight in Italy one can buy a 14-day advance-purchase fare for only 49 euros. The regular full fare price for local flight is 60 euros. On average, all type of passengers buy directly on the flight a brioche that costs 3 euros and coffee for 2 euros. Choose the correct answer (1 Punto)
	○ Co=49
	○ Co=49+2+3=54
	Co=49-2+3=50
	Co=49-2-3=44
30.	. Considering an R&D department led by Lean Innovation concepts, which is the most probable context you can find:  (1 Punto)
	Pushing for perfect learning, launching product on the market only when all the features are completed
	Pushing for fast learning through many small iterative projects
	Pushing for fast learning with very big teams in order to have more resources on the same projects
	Teams working at the same time on more projects in parallel
31.	. How would you compute "variability"? (1 Punto)
	The difference between the average value and the actual value
	The difference between the average value and the forecasted value
	The difference between the actual value and the forecasted value
	None of the previous

(1 Punto)

32. What are the service product characteristics?

$\bigcirc$	Simultaneity, Customer Participation, Homogeneity, Perishability
$\bigcirc$	Perishability, Intangibility, Time Consuming, Homogeneity, Customer participation
	Intangibility, Simultaneity, Heterogeneity, Customer Involvement in the service process, Perishability
$\circ$	Simultaneity, Heterogeneity, Invisibility, Customer Involvement in the service process, Perishability
	ich of the following sentences about the future state map is wrong? Punto)
	Once you draw the current state map, you must find improvements area and then draw the future state map. It exists only one future state map for each current state.
$\bigcirc$	You need to define (1) material flow, (2) information flow and (3) timeline.
	The aim of the future state map is to couple all production stages. If you are not able to do so, you can decouple stages with supermarket pull system.
$\circ$	The aim of the future state map is to reduce the overall process lead time of the company.
	ring SMED: Punto)
$\bigcirc$	Setup activities are automatized
$\bigcirc$	Internal activities are moved to the beginning or to the end of setup procedure
	External activities are moved to the beginning or to the end of setup procedure
	Products are batched in order to reduce setups
	ich structural elements strengthen the concept of Shouldice? Punto)
$\bigcirc$	Surgery rooms with U shape which reinforce the teamwork concept among medical staff.
$\bigcirc$	Special stairs, designed ad hoc, which enable patients to recover fast from the hernia surgery.

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15/6/2021

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