

Linnæus University

Sweden

Cover Sheet for Written Examinations

(Can also be used in the examinations box.)

This sheet should always be submitted.

NB Any loose sheets must always be attached to the examination script

School Linneaus University					
Written examination in sub-component course 1FE172 Production systems, 4 hp			Examir 1603	Examination code 1603	
Course / degree programme ISM					
Date 2017-12-21	Time 09.00-13.00		Place CIL	NO ISPARTIAL	
Total number of pages submitted 10 inkl. this one	Examination aids permitted Dictionary provided by the examination supervisor.				
Miscellaneous					
Teacher responsible for examination Sven Kallin			xamination l Time		
Can be reached on the following telephone number Time					
Examination coversheet Yes, coversheet can be distributed (answers should be written on the loose pieces of paper) No, coversheet cannot be distributed (answers should be written on the question sheet) NB Name and Swedish civic registration number should be written in ink					
Examinee's name (or code) Examinee's number of seat					
Swedish civic registration number (not where code is stated)					
Programme / course					
No. of credits Grade			Teacher	Teacher code	
Instructions Examination scripts can be hande examination (any late examinees a should always bring ID with them ID shown Examination s Yes No	are thereby giver	the oppo		participate). Examinees	

Exam, production, ISM16, 2017.12.21

1. Planning and prepreparation for an efficient set up in production is a cornerstone. What shall be considered in development for such a set up. Which are the core areas to consider. Give also examples under each main area which is important. (20)

2. Which are the four cornerstones in LEAN concept. Describe also important parameters due to each cornerstone. (20)

3.	You are going to locate a new factory. What shall be considered and why. (8)

4. To avoid disturbance in production there are areas where it's important to be proavtice, give examples and solutions to avoid disturbances (12, one point per parameter)

5. Modules are an advantage in business for lead times and efficiency. Why is it so? Describe advantages both from manufactoring side and sales side (8)

6. There is a trend to outsource production. Make a checklist what to think about both from strategic point and from tactical point to be used as a tool before take decision for outsoursing. Give also five examples of areas which can be outsourced. (15)

7. What's the difference between convergent and divergent production. Give also examples of production of these types. (5)

8. Master planning is made according to four different set ups, ETO, MTO, ATO and MTS. What's the difference between those for. Describe also what the abbreviation means. (8)

9. What does following abbreviation means? (4) BOM

MRP

PNC

KPI