

Prince of Songkla University
The Faculty of Engineering

Midterm Examination Semester 1

Year 2008

Date : 28 July 2007

Time : 13:30-16:30

Subject : 225-702 Modern Production Management

Room : R300

Name :

Student code :

Part	1	2	3	Total
Full score	20	15	40	75
Score				

คำสั่ง

1. นำตำราหรือเอกสารใด ๆ เข้าห้องสอบได้ ห้ามยืมเอกสารหรือสิ่งของใดๆในห้องสอบ
2. นำ Dictionary และ เครื่องคิดเลขเข้าห้องสอบได้ ทุกชนิด ใช้ดินสอได้ แต่ต้องเขียนให้อ่านได้ชัดเจน
3. ข้อสอบนี้ มีทั้งหมด 3 ส่วน คะแนนแต่ละส่วนไม่เท่ากัน ตรวจสอบก่อนเริ่มทำ (ให้ทำในกระดาษคำตอบเท่านั้น ตอบนอกกระดาษคำตอบไม่มีคะแนน)
4. เขียน ชื่อ หรือ รหัส ในกระดาษคำตอบทุกหน้าก่อนเริ่มทำ เพื่อป้องกันความสับสน ในกรณีกระดาษคำตอบหลุดจากฉบับ

ทุจริตในการสอบ โทษขั้นต่ำปรับตกในรายวิชานั้น
และพักการเรียน 1 ภาคการศึกษา



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Part 1 Answer all questions. Please determine whether these following sentences are correct or incorrect. One point (1 point) will be given for the right answer. Minus half point (-0.5 point) will be given for the wrong answer. (Total 20 points)

Q no.	Correct ✓	Incorrect ✗	Question
1			The corrective action for sporadic loss of machine is normally done by specialists e.g. process engineering, quality assurance and maintenance people.
2			Setup / adjustment losses are the losses that impede human work efficiency.
3			Chronic loss of machine is normally difficult to establish a remedial measure.
4			With Planned Maintenance we evolve our efforts from a proactive to a reactive method.
5			Predictive maintenance system is one of the steps in Planned maintenance.
6			Poka-yoke is one of the techniques that used in quality maintenance.
7			Productive maintenance is a type of preventive maintenance.
8			In TPM system, the operator should be trained only "Know-How" and the maintenance man should be trained on "Know-why".
9			Goal achievement by working as team is one of direct benefits of TPM
10			After cleanup step in JISHU HOZEN, problems that can be solved by operators are identified with pink tags.
11			Kaizen activities are not limited to production areas and also be implemented in administrative areas.
12			The frequency of occurrence of sporadic loss is low and occasional.
13			The highest phase of employee's skill indicates the ability of employee in teaching and writing machine instruction (know-how).
14			Minor stoppage is the loss that obstructs effective use of production resources.

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Q no.	Correct ✓	Incorrect ✗	Question
15			TPM is one of maintenance type that includes maintenance prevention activity.
16			One of the differences between preventive maintenance and maintenance prevention is time for repair work.
17			Employee suggestion system is one of the advance tools that used for productivity improvement.
18			The manufacturing today is in Mass production era.
19			The manufacturing means "made by hand".
20			In CBM system, a plant must be stopped for maintenance at constant intervals.

Part 2. Answer these following questions shortly in the provided space. (1.5 point each, total 15 points)

No	Question	Answer
1	What type of maintenance aims to improve reliability or maintainability of machine?	
2	What type of maintenance includes function test activity?	
3	What is the key principle of TPM?	
4	What was the Japanese company that introduced TPM?	
5	What is the routine maintenance of equipment that is carried out by the operators?	
6	What is the minimum value of OEE for world class factory?	
7	What should operators be trained to improve their abilities in self maintenance work?	
8	What is the best cleaning in 5S activities?	
9	What type of maintenance that aims to maximize plant and equipment effectiveness to achieve optimum life cycle cost of production equipment?	
10	In JISHU HOZEN, which step does the operator make note of area which are inaccessible?	

Part 3 Answer these following questions. Each question has different score. Total score for this part is 40 points. Clear explanation and reason must be given in your answers.

1. What is your opinion on 5S activity in Industrial Engineering Department, PSU? And what is your suggestion on improving 5S activity in our department? (10)

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2. How can we improve productivity in our department? (10)

OK

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3. You are assigned to be a team member of consultant for TPM maintenance activity in PSU hospital. What is your suggestion on implementing TPM in the hospital and how does the hospital do to establish 8 pillars of TPM? (Explain detail for each pillar). (20)

