

PRINCE OF SONGKLA UNIVERSITY
FACULTY OF ENGINEERING

Midterm Examination: SEMESTER 1

Academic Year: 2004

Date: 3/8/04

Time: 13.30 – 16.30

Subject Number: 240-525

Room: A205

Subject Title: AD INFOR ENGI DESIGN & SYS II

ไม่อนุญาต เอกสาร และ เครื่องคิดเลข ทุกชนิด

Exam Duration: 3 Hours

There are 6 questions.

240-525

Answer all questions . Each question carries equal marks:

1.Explain I-Thailand (intelligent)Initiative [Total System Approach] consists of:

- I-Government ,
- I-Industry
- I-Commerce,
- I-Learning
- I-Citizen
- I-Location
- I-Security
- I-E&E I-Environment and Energy,
- I-Transportation and Logistics (I-T&L)
- I-Finance and Banking

2.Explain I-Health How is it different from E-Health. ,

Explain following technical terms:

Medical Diagnostics, Electronic Health Records, Tele-medicine, HL7,

ISO level 7 (Application Level)

ICD 9 and ICD 10

Computer Tomography., Ultrasound ,

Digital Filmless X-Ray

3-D Tomography, Real-Time Display

3.Explain I-Retail (RFID based) using the following concepts:

-Web Commerce, Web Services, RFID(Better than Bar Code)

-SCM Supply Chain Management

4 Explain organization of the exhibition on “ Vision 2025: Towards the Knowledge Based Economy and Society Thailand”.

5.Explain future and operational space based Information systems using the following concepts:

GISTDA

National Space Agency of Thailand (NSAT)

CIA 's KeyHold Satellite

TMSat

International Space Station

DTM (Digital Terrain Model)

GPS(Global Positioning System)

Sensors for space based remote sensing systems

-CCD cameras (Charge Coupled devices)

-Radio wave sensors (active) for examples ,Microwave, RADAR, and LIDAR

6.Explain Global Hospitality Services as a part of I-Thailand Initiative (ITI)

Hospitality Industry and Environment

Enabling Factors Advanced in Information Technology

Semantic Web Services SOAP, UDDI , Meta data, Wireless based Information systems.