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<b>Exam on Information Systems 31.8.2006</b>	<b>Information Systems</b>										
	<i>Student number</i>			<i>Family name</i>				<i>First name</i>			

<b>Points</b>	5	5	4	5	6	5	5	4	4	7	
<b>Max.Points</b>											50
<b>Question</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>TOTAL</b>

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- Please insert your details in the table above.
  - You have **60 minutes time**.
  - You **may not** use any book or slides or any other helping material.
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1. (5 Points) Explain 3 characteristics of services. Which similarities and differences are there between "Real-World-" and Software-Services?

2. (5 Points) What does EAI mean? What is it used for? What is the relationship between EAI and Web services?

3. (4 Points) Draw graphically the structure of WSDL 1.1 and the relationships between its parts.

4. (5 Points) To which nodes is the following SOAP header block directed? Which possibilities for manipulation exist?

```
<p:headerBlock xmlns:p="http://example.com/"
               env:role="{soap-org}/soap-envelope/next"
               env:mustUnderstand="true">
    ...
</p:headerBlock>
```

5. (6 Points)

a) (3 Points) What does ACID mean? Please explain the acronym.

b) (3 Points) What are the difficulties with Web services transactions?

6. (5 Points) What is WS-BPEL? What is the purpose of it? What are abstract and executable processes? What are abstract and executable process descriptions used for?

7. (5 Points) What is the original vision of UDDI? What are the most relevant features of UDDI V3?

8. (4 Points) What does SOA mean? What are the important paradigms of SOA? Explain the fundamental architecture graphically.

9. (4 Points) What is the purpose of WS-Addressing?

10. (7 Points) How does the structure of a policy (using WS-Policy) look like? How are characteristics defined? How can a policy be linked to a subject?