



Philadelphia University
Faculty of Engineering

Marking Scheme

Examination Paper

BSc CE

Advanced Programming Language (630501)

First Exam

First semester

Date: 20/11/2011

Section 2

Weighting 20% of the module total

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Marking Scheme

Advanced Programming Language (630501)

The presented exam questions are organized to overcome course material through 3 questions. The *all questions* are compulsory requested to be answered.

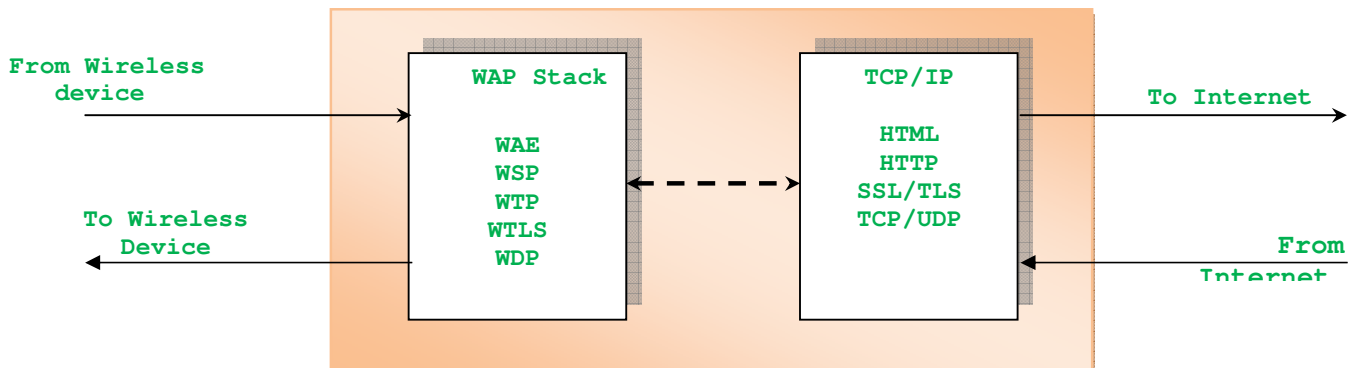
Marking Assignments

Question 1 This question is attributed with 6 marks if answered properly; the answers are as following:

1. The WAP protocol that implements a simple request-response transaction-oriented protocol is
 - a) WTLS
 - b) **WTP**
 - c) WAE
 - d) WDP
2. Which of the following WAP Protocol stack layers need to be implemented to get non-secure connectionless delivery of data?
 - a) WAE-WSP-WTP-WDP
 - b) WAE-WSP-WTP-WTLS-WDP
 - c) **WAE-WSP-WDP**
 - d) WAE-WSP-WTLS-WDP
3. Connectionless session services operates directly over the ----- protocol
 - a) WTP
 - b) WTLS
 - c) WAE
 - d) **None of above**
4. The content belonging to a non-secure session is cached on the storage media of the
 - a) Network Operator
 - b) WAP Server
 - c) **Gateway**
 - d) Mobile Device
5. How many octets (tokens) , the WSP representation will contain for the accept header:
Accept: text/plain, text/vnd.wap.wml, text/vnd.wap.wmlscript
 - a) 56
 - b) **4**
 - c) 7
 - d) 11
6. The best position of a WAP Gateway in the network to get access to any internet content is
 - a) **Network Operator**
 - b) Content Provider
 - c) ISP Provider
 - d) Mobile Device

Question 2: This question is attributed with 3 marks if answered properly,

- Connection is created between mobile device and the WAP gateway (via WSP).
- After entering the WAP Address site, the gateway is sent a request from the devices browser using WSP (controls the start and the end of the connection).
- The Gateway translates the WAP request into an HTTP request and sends it to the appropriate origin server.
- The origin server sends back the request information to the Gateway via HTTP.
- The Gateway translates and Compresses the information and sends it back to the browser in the mobile device.



Question 3: This question is attributed with 11 marks if answered properly,

Question 3.a

(4 marks)

The complete code for this sub question as the following:

```
<?xml version="1.0" ?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.3//EN"
"http://www.wapforum.org/DTD/wml13.dtd">
<wml>
<card title="Regisration" id="index" newcontext = "true"> (0.5 marks)
<onevent type="onenterforward">
<refresh>
<setvar name="UID" value=""></setvar>
<setvar name="TVID" value=""></setvar>
<setvar name="CN" value=""></setvar>
<setvar name="Quantity" value=""></setvar>
</refresh>
</onevent>
<do type="options" name = "D" label="Display Result">
<go href="#card1">
</go>
</do>
<do type="options" name = "c" label="Clear Result">
<go href="#index">
</go>
</do>
<do type="options" name = "S" label="Send to Server">
<go href="SomeFile.asp" method="post">
<postfield name="UID" value="$(UID)"></postfield>
<postfield name="TVID" value="$(TVID)"></postfield>
<postfield name="CN" value="$(CN)"></postfield>
<postfield name="Quantity" value="$( Quantity )"></postfield>
</go>
</do>
<p><b>WAP TV Order:</b><br></p>
User ID:
<input name="UID" type = "password" maxlength="15" /> <br/>
Television ID:
<input name="TVID" type = "text" maxlength="15" format = "A*x"/> <br/>
Company Name:
<select name="CN">
<option value = "Philips">Philips</option>
<option value = "Toshiba">Toshiba</option>
<option value = "JVC">JVC</option>
</select>
Quantity:
<input name="Quantity" type = "text" format = "2N"/> <br/>
</p>
</card>
<card ontimer="#index" id="card1"> (2.5 marks)
<timer name="t1" value="60"></timer>
<p><em>Your TV Order:</em><br></p>
TVID: $(TVID)<br/>
Company : $(CN)<br/>
Quantity: $(Quantity)<br/>
</p>
</card>
```

</wml>

(1 mark)

Question 3.b

(4 marks)

The complete code for this sub question as the following:

```
<card title="Registration" id="index" newcontext = "true">
```

•

•

```
<do type="options" name = "D" label="Display Result">
```

```
<go href="#card1">
```

```
</go>
```

```
</do>
```

(1 mark)

```
<do type="options" name = "c" label="Clear Result">
```

```
<go href="#index">
```

```
</go>
```

```
</do>
```

(1 mark)

```
<do type="options" name = "S" label="Send to Server">
```

```
<go href="SomeFile.asp" method="post">
```

```
<postfield name="UID" value="$(UID)"></postfield>
```

```
<postfield name="TVID" value="$(TVID)"></postfield>
```

```
<postfield name="CN" value="$(CN)"></postfield>
```

```
<postfield name="Quantity" value="$( Quantity)"></postfield>
```

```
</go>
```

```
</do>
```

(2 marks)

•

•

Question 3.c

(2 marks)

The complete code for this sub question as the following:

```
<onevent type="onenterforward">
```

```
<refresh>
```

(1 marks)

```
<setvar name="UID" value=""></setvar>
```

```
<setvar name="TVID" value=""></setvar>
```

```
<setvar name="CN" value=""></setvar>
```

```
<setvar name="Quantity" value=""></setvar>
```

(1 marks)

```
</refresh>
```

```
</onevent>
```

Question 3.d

(1 marks)

The complete code for this sub question as the following:

```
<card ontimer="#index" id="card1">
```

```
<timer name="t1" value="60"></timer>
```