Q7. (c)

The following XML statements are found in the message and portType sections of the WSDL document of the service provided by Company ABC. The method that is exposed to the client in this service is

```
Record showRecord(Record r);
```

```
<wSDL:message name="showRecordRequest">
  <wsdl:part name="in0" type="tns1:Record" />
</wsdl:message>

<wSDL:message name="showRecordResponse">
  <wsdl:part name="showRecordReturn" type="tns1:Record" />
</wsdl:message>

<wSDL:portType name="RecordService">
  <wsdl:operation name="showRecord" parameterOrder="in0">
    <wsdl:input message="impl:showRecordRequest" name="showRecordRequest" />
    <wsdl:output message="impl:showRecordResponse" name="showRecordResponse" />
  </wsdl:operation>
</wsdl:portType>
```

(i) If the method `showRecord()` is now modified as follows:

```
String showRecord(Record r, int i, String d);
```

show the changes in the WSDL document above when the service is deployed. You may assume that the QName for String and int is xsd:string and xsd:int, respectively, in this document.

(6 marks)

(ii) The service is further modified so that two methods `showRecord()` and `writeRecord()` are exposed to the client. The function prototypes of these methods are as follows:

```
String showRecord(Record r, int i, String d);
Record writeRecord(Record r);
```

Deduce the changes in the WSDL document as compared with that in (i) when the modified service is deployed.

(4 marks)
(c) (i)

```xml
<wsdl:message name="showRecordRequest">
  <wsdl:part name="in0" type="tns1:Record" />
  <wsdl:part name="in1" type="xsd:int" />
  <wsdl:part name="in2" type="xsd:string" />
</wsdl:message>

<wsdl:message name="showRecordResponse">
  <wsdl:part name="showRecordReturn" type="xsd:string" />
</wsdl:message>

<wsdl:portType name="RecordService">
  <wsdl:operation name="showRecord" parameterOrder="in0 in1 in2">
    <wsdl:input message="impl:showRecordRequest" name="showRecordRequest" />
    <wsdl:output message="impl:showRecordResponse" name="showRecordResponse" />
  </wsdl:operation>
</wsdl:portType>
```
<wsdl:message name="showRecordRequest">
  
</wsdl:message>

<wsdl:message name="showRecordResponse">
  
</wsdl:message>

<wsdl:message name="writeRecordRequest">
  <wsdl:part name="in0" type="tns1:Record" />
</wsdl:message>

<wsdl:message name="writeRecordResponse">
  <wsdl:part name="writeRecordReturn" type="tns1:Record" />
</wsdl:message>

<wsdl:portType name="RecordService">
  <wsdl:operation name="showRecord" parameterOrder="in0 in1 in2">
    
  </wsdl:operation>

  <wsdl:operation name="writeRecord" parameterOrder="in3">
    
  </wsdl:operation>

</wsdl:portType>