# CSE-C3210 Web Software Development : Exam

### December 2013

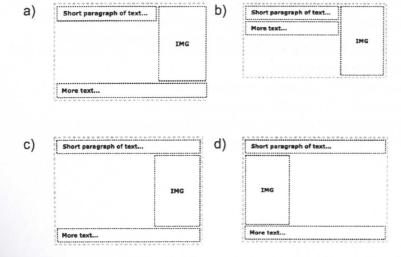
- All answers should easily fit on a single answer sheet.
- Write on each paper your name, your student number including any checking characters, the code and name of this course, examination hall, date, the number of papers returned and your signature.
- If the question number is followed by an asterisk , you should select all options that apply. If there is no asterisk, select only one.
- All questions except 11 are worth one point. Some are easier, some are harder.
- No additional material allowed.

# Questions

#### HTML & CSS

1. For the following fragment of HTML

Which of the following best describes the resulting layout?



2. The following CSS style definition

```
p i {
  font-style: italic;
}
```

makes the text italic in:

- a. all p elements inside any i element
- b. all paragraph elements that include an i element
- c. all i elements that are anywhere inside any p element
- d. all p elements that have class i
- e. all p and i elements

#### HTTP

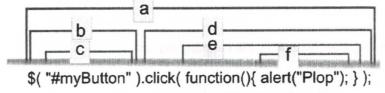
3. Explain briefly the different (a-e) parts of the URL:

```
https://www.example.org:8901/foo?bar=404
```

- 4. How does the server set cookies?
  - a. Browser automatically requests for cookies from a standardized URL
  - b. Cookies are included in the head element of html pages
  - c. Cookies are given in the HTTP headers
  - d. Cookies are given using the link tag and loaded as separate files
  - e. None of the above

#### JavaScript & jQuery

Explain briefly what each element a-f does in the following piece of code.
 Don't explain the syntax but rather why the element is necessary



- 6. With jQuery, the easiest way to load new HTML content from URL /products/2/ and replace element's (id examplediv) content is:
  - a. jQuery("#examplediv").update("/products/2/");
  - b. jQuery("#examplediv").load("/products/2/");
  - c. jQuery().get("/products/2/").update("#examplediv");
  - d. jQuery().get("/products/2/").html("#examplediv");

#### **Sessions & Security**

- 7. When you are using Django's session framework, what data is stored on the server and what on client (i.e. browser)? (max 3 sentences)
- 8. Briefly explain the basic idea of Cross-Site Request Forgery (CSRF) protection. (max 5 sentences)

#### **Web Services**

- 9. Which of the following are true?
  - a. In REST, each method operating on resources gets a unique URL
  - b. If needed, RESTful web services can be implemented using GET and POST only
  - c. RESTful web services should not be used using AJAX

#### Django

The rest of the questions are related to code in Appendix 1. You can expect that the polls application is in INSTALLED\_APPS in settings.py and that all setup is done correctly for the application to work. The templates in the code include only the relevant parts and not head and body elements, for example.

10. What should TODO1 and TODO2 on line 4 of **index.html** be replaced with if you want to include the id of the Poll in the url and question of the poll inside the element?

```
a. {{ latest_poll_list.id }} and {{ latest_poll_list.question }}
b. {% latest_poll_list.id %} and {% latest_poll_list.question %}
c. {{ poll.id }} and {{ poll.question }}
d. {% poll.id %} and {% poll.question %}
```

11. Assume that there is only one Poll object in the database and the id of that object is 1. Also, assume that you run your Django application locally in port 8000. You visit URL <a href="http://localhost:8000/polls/1/">http://localhost:8000/polls/1/</a> with your browser from the same machine. Explain what Django does and which lines from the code in the Appendix are executed. How about when requesting <a href="http://localhost:8000/polls/2/">http://localhost:8000/polls/2/</a> You don't need to explain what any possible middleware does. (max 4 points)

## Appendix 1

#### urls.py

```
    from django.conf.urls.defaults import patterns, include, url
    urlpatterns = patterns('',
    url(r'^polls/$', 'polls.views.index'),
    url(r'^polls/(?P<poll_id>\d+)/$', 'polls.views.detail'),
    )
```

## polls/models.py

```
1. from django.db import models
2.
3. class Poll(models.Model):
4.    question = models.CharField(max_length=200)
5.    pub_date = models.DateTimeField('date published')
6.
7. class Choice(models.Model):
8.    poll = models.ForeignKey(Poll)
9.    choice = models.CharField(max_length=200)
10.    votes = models.IntegerField()
```

#### polls/views.py

```
1. from django.template import Context, loader
2. from django.shortcuts import render to response, get object or 404
   from django.http import HttpResponse
   from polls.models import Poll
5.
6. def index(request):
        latest poll list = Poll.objects.all().order by('-pub date')[:5]
7.
       t = loader.get_template('index.html')
8.
        c = Context({ 'latest poll list': latest poll list })
9.
       return HttpResponse(t.render(c))
10.
11.
12. def detail(request, poll id):
       p = get_object_or_404(Poll, pk=poll id)
       return render to response('detail.html', {'poll': p})
14.
```

### #index.html

### #detail.html