NOTE: Answer only FIVE Questions  (for each Question 10 marks)

Q1/ Define the following (Ten only)
1- internet  2- HTTP  3- Packet  4- server  5- Meta search engine  6- IP address  7- Dynamic data  8- Case folding 9- Broadcasting  10- Infrared  11- Stemming  12- Spider

Q2/A/ What are the functions of the following:
1- TCP  2- FTP  3- Browser  4- DNS  5- Information Retrieval
B/ Define the crawler then explain its algorithms.

Q3/A/ Answer the following
A/ Explain the function and the importance of indexer.
B/ What is the purpose of document conversion and parsing?
C/ URL consists of five parts. List them and explain the most important and necessary part? With example

Q4/A/ See figure (1) then answer the following:
1- Write page rank equations for each of A, B, C, D, and E.
2- Solve only three iterations to compute PR depending on your built equations.
3- If we remove page C from the site, what will happen to the values of PR for the other pages? How?

B/ List the difficulties in searching information in internet

Figure (1)

Q5/A/ Define the search engine then list two types of search engines and explain one of them.
B/ How the internet is work? Explain each part in detail.
C/ Compare between the following
1- MAN & WAN  2- Laser & Fiber optical

Q6/A/ Write HTML code to design the following form

First name: [ ]
Last name: [ ]
Password: [ ]
Gender: Male [ ] Female [ ]
I have a bike [ ] I have a car [ ]

اكتب الصفحة رجاءً
B/write html code to design the following table:

<table>
<thead>
<tr>
<th>This is a paragraph</th>
<th>This cell contains a table:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is another paragraph</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>C</td>
</tr>
<tr>
<td>This cell contains a list</td>
<td>HELLO</td>
</tr>
<tr>
<td>- apples</td>
<td></td>
</tr>
<tr>
<td>- bananas</td>
<td></td>
</tr>
<tr>
<td>- pineapples</td>
<td></td>
</tr>
</tbody>
</table>

C/choose the correct answer for the following:

1- What is the correct HTML for creating a hyperlink?
   a- `<a name="http://www.w3schools.com">W3Schools.com</a>`
   b- `<a>http://www.w3schools.com</a>`
   c- `<a href="http://www.w3schools.com">W3Schools</a>`
   d- `<a url="http://www.w3schools.com">W3Schools.com</a>`

2- What is the correct HTML for making a circle?
   a- `<input type="circle" /></b>`
   b- `<circle>`
   c- `<check>`
   d- `<ul type="circle" /></b>`

3- `<Frameset>` tag defines:
   a- single frame  b- vertical frames  c- set of frames  d- horizontal frames

4- The tag that defines an image is
   a- `<image>`
   b- `<map>`
   c- `<area>`
   d- `<img>`

5- The tag that defines a paragraph is
   a- `<b>`
   b- `<paragraph>`
   c- `<p>`
   d- `<list>`

6- Text between `<html>` and `</html>` describes:
   a- web page  b- paragraph  c- image  d- header

7- When you save an HTML file, you can use
   a- .asp extension  b- .doc  c- .PDF  d- .html

8- The tag that define table cell is
   a- `<td>`
   b- `<tr>`
   c- `<th>`
   d- `<li>`

Good Luck