

## Week 11 Practice Questions

Q1: What does lighthouse tool do?

- A. Loads a page and resources while monitoring time taken
- B. Inserts dummy data to the website database while monitoring time taken
- C. It can emulate analysis for both mobile and desktop
- D. All of the above

Answer: A and C

Q2: Which of the following factor(s) contribute to the weighted average score computed by the lighthouse tool?

- A. Performance
- B. Security
- C. Accessibility
- D. Best Practices

Answer: A, C and D

Q3: Which of the following categories come under web applications of static nature?

- A. Static text page
- B. Blog excluding the likes/comments section
- C. LMS
- D. All of the above

Answer: A and B

Q4: Which of the following is an example of a dynamic web application?

- A. Wikipedia
- B. MDN
- C. \*.github.io

D. [seek.onlinedegree.iitm.ac.in/courses/ns\\_22t2\\_cs2006](http://seek.onlinedegree.iitm.ac.in/courses/ns_22t2_cs2006)

Answer: D

Q5: Suppose you have recently launched a new product and have published a website for the same. Assuming that the traffic to the website is going to increase drastically in the coming future, which of the following scaling would be better in a long run?

- A. Horizontal Scaling
- B. Vertical Scaling
- C. Both the scaling will have the same impact
- D. None of the above

Answer: A

Q6: Which of the following statements is true regarding load balancers?

- A. A load balancer generally responds with an HTML response to the client for a given request.
- B. Every load balancer must follow a weighted round-robin algorithm to do load balancing.
- C. The function of a load balancer is just to forward the requests to the server.
- D. None of the above.

Answer: C

Q7: Which of the following statement(s) is/are true?

- A. Reverse proxies are used to protect the client from the outside world.
- B. A load balancer is not required, if there is only one server.
- C. Reverse proxy servers can cache the response based on the request.
- D. All of the above

Answer: B and C

Q8: Which of the following statement is correct regarding HTTP pipelining?

- A. It allows client to send multiple request to the server over a single TCP connection without waiting for their response
- B. It allows the client to send only one request to the server over a single TCP.
- C. It allows client to send multiple request to the server over a single TCP connection, but wait for the response for the request.
- D. None of the above

Answer: A

Q9: What does the First contentful paint metric represent in lighthouse?

- A. Time Taken to render the page completely
- B. Time taken to show something on the screen.
- C. Time taken for the page to be interactive.
- D. Total time for which browser is frozen.

Answer: B

Q10: Which of the following is correct regarding Proxy?

- A. It is the intermediary between server and client.
- B. It routes the client's request to the servers capable of fulfilling those requests.
- C. Proxies can help with content distribution.
- D. None of the above

Answer: A and C