1. \*\*Which XPath expression selects the root node in an XML document?\*\*

a) `/root`

b) `//`

c) `./`

d) `/`

Ans: b

2. \*\*What does the XPath expression `//book` do?\*\*

a) Selects all `book` elements with an attribute named `book`

b) Selects all `book` elements that are children of the current node

c) Selects all `book` elements regardless of their position in the document

d) Selects the first `book` element

Ans: c

3. \*\*Which XPath function is used to count the number of nodes in a selected node set?\*\*

a) `size()`

b) `count()`

c) `length()`

d) `number()`

Ans:b

4. \*\*If an element `<price>` is a child of an element `<book>`, what would the XPath expression `/catalog/book/price` select?\*\*

a) All `price` elements in the XML document

b) The first `price` element found inside the `book` node

c) All `price` elements that are children of any `book` element under the root `catalog`

d) Only the first `price` element inside the first `book` element under `catalog`

Ans:c

5. \*\*How would you select all `book` elements that have an attribute `lang` with a value of "en"?\*\*

a) `/book[@lang='en']`

b) `//book[lang='en']`

c) `//book[@lang='en']`

d) `/book/@lang='en'`

Ans:b

6. \*\*What does the `position()` function return in an XPath expression?\*\*

a) The position of the current node among its siblings

b) The position of the current node in the whole document

c) The position of the current attribute node

d) The total count of nodes in the document

Ans: a

7. \*\*Which XPath expression selects all text nodes directly under a given node?\*\*

a) `node()/text()`

b) `./text()`

c) `./node()`

d) `text()/node()`

Ans: a

8. \*\*What will the expression `ancestor::book` select?\*\*

a) All ancestor nodes of type `book` of the current node

b) All nodes of type `book` that are children of the current node

c) The first `book` node in the document

d) All `book` nodes that are siblings of the current node

Ans: a

9. \*\*Which XPath expression will select all elements with a `price` greater than 10?\*\*

a) `//price[text() > 10]`

b) `//price[number() > 10]`

c) `//price[count() > 10]`

d) `//price[. > 10]`

Ans: b

10. \*\*In an XML structure, which expression would select the parent node of the current element?\*\*

a) `ancestor::`

b) `../`

c) `parent()`

d) `preceding-sibling::`

Ans: a

11. \*\*What would `child::\*` select in an XPath expression?\*\*

a) All attributes of the current node

b) All sibling elements of the current node

c) All child elements of the current node

d) All descendants of the current node

Ans: c

12. \*\*Which function helps identify if a node has a particular attribute?\*\*

a) `attribute()`

b) `has()`

c) `exist()`

d) `boolean()`

13. \*\*Which axis is used to select nodes that appear before the context node in document order but are not ancestors?\*\*

a) `preceding::`

b) `following::`

c) `preceding-sibling::`

d) `following-sibling::`

Ans: c

14. \*\*How would you select nodes that match either `title` or `author` elements directly under the `book` node?\*\*

a) `/book/title | /book/author`

b) `//book/title and //book/author`

c) `/book/title or /book/author`

d) `book/title or book/author`

Ans: a

15. \*\*What would be the result of the following expression: `//book[count(\*) > 3]`?\*\*

a) All `book` nodes that have more than three child nodes

b) All `book` nodes that have more than three attributes

c) All `book` nodes with children named `count`

d) An error message

Ans: a