PROGRAMMING IN JAVA

Assignment7

TYPE OF QUESTION: MCQ

Number of questions: 10   **Total mark: 10 × 1 = 10**

QUESTION 1:

Which of the following streams contains the classes which can work on character stream?

  a. InputStream
  b. OutputStream
  c. FileReader
  d. FileWriter

Correct Answer: c, d

Detailed Solution:
Note: InputStream and OutputStream classes work on byte streams.

QUESTION 2:

In which Java APIs the classes for handling all IO-streams are defined?

  a. java.lang
  b. java.util
  c. java.io
  d. java.awt

Correct Answer: c

Detailed Solution:
java.io package is meant for handling io-streams in Java program.

QUESTION 3:

```java
import java.io.*;

public class Question {
    public static void main(String[] args)
    {
        try {

            PrintWriter writer = new PrintWriter(System.out);

            writer.write(9+97);

            writer.close();
        }
        catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

What will be the output if the above program is executed?

    a. It will give compile-time error
    b. It will give run-time error
    c. j
    d. 106

Correct Answer: c
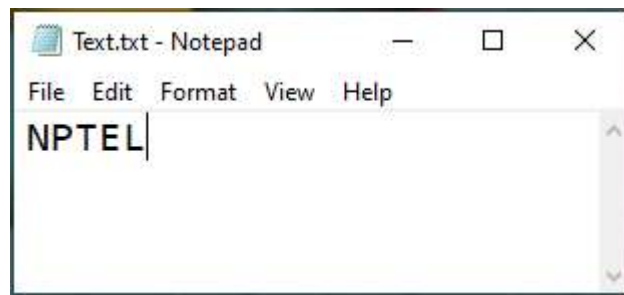
Detailed Solution:

QUESTION 4:

```java
import java.io.*;

public class Question7{
public static void main(String[]args){
        try{
                InputStream file =new FileInputStream("./Text.txt");
                System.out.print(file.available());
        }
        catch(Exception e){
                System.out.print(e);
        }
}
}
```

The file **./Text.txt** when opened with the Notepad text editor, it shows the content as shown below.

Which of the following is the correct output for the 'try' portion of the code?

    a. Prints the number of bytes in the file.
    b. Prints the number of characters in the file.
    c. Prints 'true', if the file is present; else prints 'false'.
    d. Prints nothing, as an exception will be caught.

Correct Answer: a

Detailed Solution: Returns an estimate of the number of remaining bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream. The next invocation might be the same thread or another thread. A single read or skip of this many bytes will not block, but may read or skip fewer bytes.

QUESTION 5:

Which method is used to write an array of byte to the current output stream?

a. public void write(int b)throws IOException
b. public void write(byte[ ] b)throws IOException
c. public void flush( )throws IOException
d. public void close( )throws IOException

Correct Answer: b

Detailed Solution:

public void write(byte[ ] b)throws IOException is used to write an array of byte to the current output stream.

QUESTION 6:

Which of the following is/are Standard Stream(s)?

a. System.in
b. System.out
c. System.err
d. System.console

Correct Answer: a,b,c

Detailed Solution:
The Java platform supports three Standard Streams: Standard Input, accessed through System.in; Standard Output, accessed through System.out; and Standard Error, accessed through System.err.

QUESTION 7:

Which of the following method in java.io package help in clearing the contents of the buffer?

a. flush ( )
b. clear( )
c. append( )
d. exit( )

Correct Answer: a

Detailed Solution:

flush() : Flushes the stream.

Note: Clear( ) and exit( ) are not any valid methods defined in any class in java.io package.

QUESTION 8:

Which method of RandomAccessFile class reads a line from the file and returns it as a String ?

        a. WriteInt( ).
        b. readLine( )
        c. readInt( )
        d. WriteDouble( )

Correct Answer:b

Detailed Solution:

readLine() : Reads the next line of text from this file and return it as a String.

QUESTION 9:

Which of the following is/are interface(s) of `java.io` package?

        a. FileReader
        b. ObjectInput
        c. ObjectOutput
        d. DataInput

Correct Answer: b,c,d

Detailed Solution:
FileReader is a class in java.io package. All others are interface.

QUESTION 10:

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

a. DataStreams detects an end-of-file condition by using EOFException, instead of testing for an invalid return value.
b. DataStreams uses floating point numbers to represent monetary values.
c. Data streams support I/O of primitive data types.
d. Object streams support I/O of objects.

Correct Answer: a,b,c,d

Detailed Solution:

All options are correct.
DataStreams detects an end-of-file condition by catching EOFException, instead of testing for an invalid return value.