## **IN-LECTURE QUESTIONS FOR VIDEO 8.3**

Note: See the answer key at the bottom of this file.

- 1. Which two parameters does the method onTouch in the OnTouchListener interface have?
  - a. Pointers to the View and MotionEvent objects
  - b. The time (of type long) and an MotionEvent object
  - c. The touch information (an array of integers) and a boolean
- 2. Which one of the following is true of a MotionEvent object?
  - a. It includes information about GPS movements
  - b. It includes information about single and multi-touch user interactions
  - c. It includes information about on screen graphic movements
- 3. To get the user action that caused the MotionEvent, call:
  - a. qetAction()—or qetActionMasked() if you want to support multi-touch
  - b. getReason()
  - c. getUserAction()
- 4. Which of the following are possible single-touch action sequences ("down" = "ACTION\_DOWN" etc)?
  - a. down, up
  - b. down, move, move, up
  - c. down, cancel
  - d. down, down, up
  - e. All of the other options are correct.
- 5. An ACTION DOWN event is normally paired with an ACTION UP or an event.
- 6. After an ACTION\_DOWN event you may get multiple \_\_\_\_\_ events if your listener returns true for the ACTION\_DOWN event.
  - a. ACTION\_MOVE events
  - b. ACTION\_CANCEL events
  - c. ACTION\_TRANSFER events
- 7. To automatically convert a dimension value named 'xyz' that includes a value and units (e.g. 160dp, 16sp, 32px) into screen pixels use:
  - a. getResources().getDimensionalSize(R.xml.xyz);
  - b. getResources().getDimensionPixelSize(R.dimen.xyz);
  - c. getResources().getDimensionalSize("xyz");
- 8. To create a new bitmap that is a larger or smaller version of an existing bitmap 'original' use:
  - a. Bitmap.createScaledBitmap(original,newWidth,newHeight,true);
  - b. Bitmap.createScaledBitmap(original, scaleFactorX, scaleFactorY, d
     estination);
  - c. BitmapFactory.createScaledInstance(original, newWidth, newHeight
     ,options);

9.	MotionEvent 'getX()' and 'getY()' return single-touch position values:  a. Relative to the canvas  b. Relative to the view  c. Relative to the window

## **ANSWER KEY:**

- 1. a
- 2. b
- 3. a
- 4. e
- 5. ACTION\_CANCEL
- 6. a
- 7. b
- 8. a
- 9. b