Question 1

Which of the following sensing strategies is written correctly in order of their privacy invasiveness?

A. Accelerometer > GPS > WiFi
B. GPS > Bluetooth > Screen Touch
C. WiFi > Gyroscope > Calls
D. Calls > Battery > Camera

Question 2

Any information can be deemed "personal", If enough other pertinent information is added.

A. True
B. False

Question 3

What method from the list below is used in neuromarketing research?

A. dMRI
B. EGG
C. fMRI
D. ECB

Question 4

Which of the following ethical factors should be taken into account when adopting artificial intelligence?

(A) Data privacy, (B) algorithmic fairness and biases, and (C) informed consent to data use.

1. A only
2. B only
3. A and B only
4. A, B and C

Question 5

Which of the following is not a potential Ethical Consideration that need not be addressed?

A. Emotional Manipulation
B. Privacy
C. Emotional Dependency
D. None of the above

Question 6

Users must express their opinions about the products through focus groups and surveys during beta testing, which might be hampered by problems like participant bias, recall bias, etc.

A. True
B. False

Question 7

It will be a good idea to enable affective skills in all kinds of machines.

A. True
B. False

Question 8

Which of the following sensing strategies is written wrongly in order of their privacy invasiveness?

Microphone > WiFi> Accelerometer

GPS > Bluetooth > Screen Touch

WiFi > Gyroscope > Calls

Calls > Apps > Gyroscope

Question 10

Targeted advertising will enhance the user experience but with cost to user privacy vulnerability?

A. True
B. False

Question 11

What ethical consideration arises regarding the storage of emotional state data?

A. Ensuring data encryption on the device
B. Limiting access to emotional state data by external entities
C. Defining the duration of data storage and access rights
D. All of the above

Question 12

What is the most crucial aspect related to affect sensing?

A. User engagement with affective technology
B. Maintaining the privacy of users' emotions
C. Designing visually appealing interfaces
D. Ensuring compatibility with different devices

Question 13

What trade-off do app designers face regarding affect sensing methods?

A. Balancing user engagement with privacy concerns
B. Prioritizing data security over functionality
C. Choosing between accuracy and privacy preservation
D. Enhancing emotion detection capabilities at the expense of user trust

Question 14

Which of the options is correct about lack of diversity in the team creating affective computing systems?

A. Reduced team expenditure
B. Increased algorithm complexity
C. Introduction of biases into the system design
D. Enhanced transparency in decision-making

Question 15

Training labellers and testers in the affective computing system development process:

A. Adds to the unnecessary costs
B. Makes the model more Explainable
C. Adds to the diversity
D. Avoids biases

Question 16

Why is transparency important in affective computing systems?

A. To increase computational efficiency
B. To reduce algorithm complexity
C. To enhance user satisfaction
D. To enhance explainability

Question 17

What ethical concern arises when sourcing data from the internet to train machine learning algorithms for affective computing?

a) Computational complexity

b) Data ownership and permissions

c) Algorithm transparency

d) Lack of diversity in the dataset

Question 18

According to Barrett and others, what is one major issue with using facial expressions as a window to emotion in affect sensing?

a) Lack of availability

b) Limited reliability

c) Excessive specificity

d) Overgeneralization

Question 19

What is the implication of the lack of specificity in facial expressions?

a) Unique mapping between facial movements and emotion instances

b) Consistent expression of emotions across different cultures

c) Activation of different facial muscles for different users

d) High reliability in interpreting emotional states

Question 20

What is a challenge related to the generalizability of facial expressions in affect sensing systems?

a) Consistent interpretation across cultures → inconsistent interpretation

b) Reliability of facial muscle activation → Lack of Reliability

c) Effect of context and culture not sufficiently documented

d) Lack of variability in emotional expressions

Question 21

Users trust and feel more comfortable with the app when there are explicit agreements and contracts.

A. True
B. False

Question 22

Clear documentation is very important to foster trust in the affective app. It should …

A. Explain how the app works and the interface
B. Help users understand the app's capabilities and data usage
C. Instruct the user to exhibit the limited supported emotions only
D. Both A and B

1) When sending emotional state data to a cloud-based system, what safety mechanism is typically employed to maintain user privacy?

- Two-factor authentication
- End-to-end encryption
- IP whitelisting
- Data obfuscation

2) From an ethics perspective, what is a significant concern regarding affect-sensing apps in relation to emotional dependency?

- User engagement
- Privacy intrusion
- Emotional manipulation
- User addiction

3) Accelerometer signals have higher privacy invasiveness intensity as compared to GPS signals.

- True
- False

4) Achieving foolproof anonymization is impossible because all information can be classified as personal when correlated with sufficient other relevant data.

- True
- False

5) In a labeling process, which of the following scenarios minimizes bias and ensures consensus among labellers? ***1 point***

- Labellers are unaware of what they are supposed to label.
- Labellers work independently without any guidance.
- Labellers are aware of what they are supposed to label, and there is consensus among them, with efforts to avoid bias.
- None of the above

6) When designing the test case; Testers' prior training and experiences can affect their feedback and introduce biases into the system.

- True
- False

7) Why is it important for designers to provide clear documentation and contracts regarding app functionalities and data handling?

- To maximize user interaction with the app
- To increase user dependence on the app
- To ensure users understand data recording methods and access rights.
- To limit user access to app features

8) Which of the following are open issues in the affective computing?

- Inheritance of deception in Affective Computing.
- Should destructive machines be given emotional capabilities?
- Both a and b.
- None of the above.

9) Before deploying emotion-enabled targeting advertisements, it is essential to study the effects from both the user's perspective and the advertiser's perspective. *1*

- True
- False

10) Which of the following is in the correct order of their privacy invasiveness.

- Accelerometer > Wifi > Microphone
- Accelerometer > Microphone > Wifi
- Microphone > Wife > Accelerometer
- Microphone > Wifi > Accelerometer