HCI	FIRST AND LAST NAME	STUDENT ID

Read carefully the questions below and for each indicate the correct answer. Please note that only one option is correct.

1	is the degree to which the VR environment	4. The	eye tracking metric "Time for first fixation
surrounds and captivates the user's senses, creating a		(TFF)"	is:
convincing illusion of reality		a.	The amount of time that it takes a respondent to
a.	Immersion		look at a specific stimulus
b.	Social Interaction	b.	The state in which the gaze remains stationary at
c.	Spatial Awareness		a point from 100 to 500 ms
d.	Emotional Engagement	c.	The number of fixations per second
		d.	A graphical combination of Fixations and
			Saccades
	n all participants perform all the experimental	5. In Human-Robot Interaction, the design process	
conditions, the experimental design is a:			phasizes the characteristics of the users and
a.	Within-subject design	the con	text of use is called:
b.	Between-subject design	a.	Industrial robot design
c.	One-tailed design	b.	Exploration robot design
d.	Two-tailed design	c.	Inside-out approach
		d.	Outside-in approach
3. In a	a top-down video analysis: 6. Dependent variables are:		
a.	Events of interest are determined during the analysis	a.	What the researcher manipulates
b.	Analyzed videos are less than 10 minutes long	b.	Variables that show a positive correlation
c.	Events of interest are determined a priori		between them
d.	Analyzed videos are longer than 10 minutes	c.	What the researcher measures
		d.	Variables that show a negative correlation
			between them

Read carefully the text below. For each of the following questions, provide short and precise answers in the lines provided.

EXERCISE 1.

You are part of a research team working for a company that produces virtual reality (VR) systems for teleoperating robots. The company just developed a new VR feature that supposedly enhances the efficiency and effectiveness of operators in guiding the robot from point A to point B and then to point C by using the VR system. The research team is thus asked to measure the efficiency and effectiveness of the newly developed VR system, and particularly:

- a) quantify the time required for an operator to guide the robot from point A to point B and then C;
- b) identify possible erroneous behaviors of the operators when using the newly developed VR system.

1.1 As an HCI expert, which method would you use to identify erroneous behaviors and quantify the time require for an operator to guide the robot from point A to point B and then C?		
	escribe the chosen method, detailing which data you would acquire, how you would collect them and how u would analyze them. Be as detailed as possible.	

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EXERCISE 2.
You are part of a research team tasked with evaluating three different e-commerce website layouts (Layout Layout B, and Layout C) to determine which one facilitates the quickest product search and purchase process. The goal is to ensure that users can find and purchase products efficiently, thus enhancing overall satisfaction as usability. Besides self-reports, you want to add an additional measure of the users' attention distribution over the website layout.
Describe your evaluation plan, including research questions, experimental design, experimental setting, armethods (i.e., data you would collect, metrics you would analyze).