

Department of Computer Engineering

HMI Question Bank for IA-II (2019-20)

1)	One component which contains nearly all GUI programs will have a) Frame b) Mouse c) Monitor d) Button
2)	Which one is the basic input device in GUI? a) Mouse b) Graphics Tablet c) Voice System d) Touch panel
3)	GUI stands for a) Graphical User Interface b) Graphical User Interaction c) Graphics Uniform Interaction d) None of the above
4)	The visual language includesfor representing visual sentences a) Visual language b) Icons c) Both a and b d) None of these
5)	What is/are the main component/ components of User Interface? a) Presentation language b) Action language c) Both a and b d) None of them
6)	Which type of interface provides input by typing a string in the keyboard? a) Graphical User Interface b) Command Line User Interface c) Natural Language Interface d) Menu Interface
7)	A GUI is a a) Hardware b) Language Interpreter c) Software Interface d) Operating System



	8)	Natural Language User Interface can accept input in the form of a) String Command b) Speech
		c) Image
		d) None of these
	9)	In Graphical User Interface of Operating System, to point files user uses a) Pointer b) Common Line Interface
		c) File Based Interface
		d) Voice Based Interface
as		Files and directories of Graphical User Interface of Operating System programs are known
		a) Commands
		b) Graphics
		c) Text
		d) Folders
	11)	Which of the following is the golden rule for interface design?
		a) Place the user in control
		b) Reduce the user's memory load
		c) Make the interface consistentd) All of the mentioned
		d) All of the mentioned
	12)	Which of the following is not a design principle that allows the user to maintain control? a) Provide for flexible interaction
		b) Allow user interaction to be interrupt-able and undo-able
		c) Show technical internals from the casual user
		d) Design for direct interaction with objects that appear on the screen
	13)	Which of the following is not a user interface design process?
		a) User, task, and environment analysis and modeling
		b) Interface design
		c) Knowledgeable, frequent users
		d) Interface validation
	14)	When users are involved in complex tasks, the demand on can be significant.
		a) Short-term memory b) Short-uts
		b) Shortcutsc) Objects that appear on the screen
		d) All of the mentioned
		w, and anomore



15) Which	of the following options is not considered by the Interface design?
a) The	e design of interfaces between software components
	e design of interfaces between the software and human producers and consumers of ormation
	e design of the interface between two computers
	of the mentioned
16) A soft	ware might allow a user to interact via
a) Ke	yboard commands
b) Mo	ouse movement
c) Vo	ice recognition commands
d) All	of the mentioned
	establishes the profile of end-users of the system?
	sign model
	<mark>er's model</mark>
	ental image
d) Sys	stem image
	of the following is not a characteristic of direct manipulation interfaces?
	sibility of the objects and actions of interest.
	enu selection and form fill-in.
	apid, reversible, incremental actions.
d) Re	placement of typed commands by a pointing action on the object of interest.
19) Augmo	ented reality is
a) The	e same thing as virtual reality
	type of dashboard displaying a large volume of information at one time.
	n innovation in which users see the real world with an overlay of additional
inf	<mark>ormation.</mark>
	e use of haptic interaction skills to manipulate objects and convert the physical form to igital form.
	backs of direct manipulation include all of the following except
	esigns may consume valuable screen space.
	ers must learn the meanings of visual representations.
	sual representation may be misleading
a) In	e gulf of execution is increased
21) Remot	e environments are complicated by
a) Th	e gulf of execution, the gulf of evaluation, and time delays.
	ne delays, incomplete feedback, and unanticipated interferences.
	pervisory control, lack of multiple coordinated views, and time delays
d) Lac	ck of precision, supervisory control, time delays, and gulf of execution



22) All o	f the following are good guidelines for use of icons except
	Represent the object or action in a familiar and recognizable manner.
	Carefully consider three-dimensional icons; they are eye-catching but also can be
	listracting.
	imit the number of different icons.
	Make the icon blend in with its background.
,	essful virtual environments will depend on smooth integration of what technologies?
	Visual display
	Head-position and hand position sensing
	Force feedback and haptics
d) A	All of the above
24) The	advantages of WYSIWYG word processors include all of the following except
·	
a) U	sers see a partial page of text.
	he document is seen as it will appear when printed.
	ursor action is visible and cursor motion is natural.
	nmediate display of the results of an action
25) Relat	ive flow dragging allows a user to
a) <mark>M</mark>	Iove through a video by dragging an object of interest along its visual trajectory.
b) S	ee a large volume of information at one time and to directly manipulate it
c) B	e in an immersive environment that blocks out the world.
d) A	void complex commands that they might be needed only during a once-a-year
eı	mergency.
26) A sud	ccessful direct-manipulation interface must present
	complex series of user choices.
	n appropriate representation or model of reality.
	he option for users to enter a long string of commands.
	fixed metaphors so that users don't become bored.
<i>a)</i> 10	made metaphors so that users don't become bored.
27) Whic	ch of the following is not a beneficial attribute of well-designed systems that use direct
manipulation?	
a) N	ovices can learn basic functionality quickly
b) E	xperts can work rapidly to carry out a wide range of tasks
	nowledgeable intermittent users can retain operational concepts.
d) U	ser actions are permanent and cannot easily be undone
267	is the name for the condition that evicts when a remotally controlled device
	is the name for the condition that exists when a remotely controlled device
	rent position, but does it so slowly that it does not indicate its exact current position.
	ransmission delay
	nsufficient feedback
,	eedback delay
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29) On	ne solution to the problems of the architecture of remote environments is
	Discourage the use of remote environments for critical tasks.
	Make explicit the network delays and breakdowns as part of the system.
	Add animation that allows users to see what happens if they move their input device.
d)	Better user training
30) Fo	r virtual environments to be successful, displays must
a)	Approach real time in presenting images to the users.
b)	Use low resolution when objects are not moving
c)	Be head-mounted
d)	Be boom-mounted
31). Al	llowing surgeons to look at a patient while they see an overlay of an x-ray is an example of
	Virtual reality
	Visual Display
	Augmented Reality
d)	Force Feedback
32) Us	ers have a strong sense of causality when
	Interface objects and actions are complex.
	Users can select actions rapidly by pointing or gesturing.
	Display feedback is delayed.
d)	Inputs produce random results
33) Th	e user interacts with a collection of elements referred to as
a)	Actions
b)	Design
c)	Objects
d)	Records
	ne primary interaction mechanism is adevice of some kind.
a)	Pointing Poi
b)	Selecting
c)	Computing
d)	Viewing
35) Pr	rinted pages are immensely to web pages in rendering.
a)	Inferior
b)	Down
c)	Reversed
d)	Superior



_	36) In practice, direct manipulation of all screen objects and actions may not be feasible because
of	a) Action could be reversed
	b) Operation may be difficult to conceptualize
	c) Both a and b
	d) None of the above
	37) Menu bars are used to present
	a) Application alternatives
	b) Choices to the screen user
	c) Both a and b
	d) None of the above
	38)set one item from a small set of mutually exclusive options.
	a) List boxes
	b) Checkboxes
	c) Drop Boxes
	d) Radio buttons
	39) Which is not a good rule for organizing menu contents into meaningful groups and
sequenc	
	a) Create groups of logically similar items.
	b) Form groups that cover all possibilities.
	c) Make sure that some items overlap
	d) Use familiar terminology, but ensure that items are distinct from one another.
	40) Menus with simple yes/no, true/false, or male/female choices are called
	<mark>a) Binary</mark>
	b) Tertiary
	c) Secondary
	d) Simple
	41) Which of the following is not a guideline for good form fill-in design?
	a) Group and sequence of fields logically
	b) Make sure that required fields are clearly marked
	c) Allow users to enter any value in a field
	d) Give immediate feedback about errors
	42) Almost all keyboards use the layout.
	a) ABCDE
	b) QWERTY
	c) Inverted-T arrangement
	d) Virtual



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43) U	sers with motor disabilities often prefer over mice.
a	Touchpads and tablets
· · · · · · · · · · · · · · · · · · ·	Directional pads and trackpoints
	Joysticks and trackballs
a	d. Touchpads and joysticks
44) A	touchscreen is an example of a device.
a)	Direct Control
	User Control
,	Indirect Control
· · · · · · · · · · · · · · · · · · ·	None of the above
/	
	ouchscreen and trackball devices are a good choice for
	Public access, shop floor, and laboratory applications.
b)	Drawing and handwriting.
c)	Games
d)	Situations when there are a small number of targets
46) W	Then considering the depth/Breadth tradeoff in menus, studies show that
<u>a)</u>	Breadth should be preferred over depth.
	Depth should be preferred over breadth.
	User experience level is the key factor.
· · · · · · · · · · · · · · · · · · ·	Designers should give users a choice
450	
	n icon of a file folder, which users can drop files on in order to move them to the folder is an
	which of the following?
a)	The "recognition rather than recall" principle
a)	Direct Manipulation
b)	Both the above options
	None of the mentioned above
40) (
48) G	enerally, computer input in human computer interaction is
a)	1 1
a)	1 1
b)	User Input
c)	User Output
40) 11	This hof the following is a good idea when designing manual for a small sensor device like a
	which of the following is a good idea when designing menus for a small screen device like a
phone?	Drescent as many functions as possible
a)	Present as many functions as possible

b) Simplify. Focus on important functions, relegate others to other platforms

c) Always sequence menu items in alphabetical order

d) Do not worry about learnability



predefined design principles.

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50) Ex	pert or frequent users who need quick ways to perform simple tasks benefit from all of the
following exc	ept
a)	Keyboard shortcuts
b)	The ability to "mouse ahead"
	Tear-off menus.
d)	Random presentation sequence.
51) Th	e size of a chunk of information a person can hold in short-term memory depends on
	Their familiarity with the material (knowledge and experience).
b)	Their long-term memory
c)	Their natural cognitive abilities
d)	Their age and gender
	ays a designer can reduce user frustration include all of the following except:
	Increase server capacity, network speed, and network reliability.
,	Improve user training, online help, and online tutorials.
	Redesign instructions and error messages.
d)	Design for expert users first, not for universal usability.
	hich statement is not true about short-term, long-term, and working memory?
	People have limited capacities for absorbing information.
	People store short "chunks" of information in short-term memory.
c)	People use short-term memory in conjunction with working memory for processing
	information and for problem solving.
d)	Long-term memory processes perceptual input, whereas working memory is used to generate and implement solutions.
5.1\ D:	
	alog boxes should
	Be as large as possible to make sure users notice them.
	Be small as is reasonable to minimize the overlap and visual disruption.
	Be difficult to make disappear.
d)	Blend into the background.
55) En	nbedded links
	Permit items to be viewed in context.
	Are distracting to users.
	Waste screen space.
d)	Are useful for expert users.
56) W	hich of the following fields is an influence of HMI?
	Ergonomics
	Cognitive Psychology
	Computer Science
	All of the above

57) A software engineer designs the user interface by applying an iterative process that draws on



