

FACULTY OF APPLIED SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

END OF SECOND SEMESTER EXAMINATIONS 2021/2022 ACADEMIC YEAR

COURSE TITLE

HUMAN COMPUTER INTERFACE

COURSE CODE

BIT 232

CANDIDATE'S INDEX NUMBER **CLASS & YEAR** BTECH ICT 2 DURATION 2HRS 30MIN

SECTION A-MULTITPLE CHOICE (30MARKS)

INSTRUCTIONS

ANSWER ALL QUESTIONS. Carefully select the most appropriate answer for each question on the question paper

- 1. The following are the key components of HCl except
 - a. Human
 - b. Programming
 - c. Interaction
 - d. Computer
- 2. The major senses include the following except
 - a. Brain
 - b. Sight
 - c. Hearing
 - d. Smell
- 3. The human component of HCI basically refers to ____
 - a. Interaction
 - b. Computer
 - c. System
 - d. User
- is the transparent fibrous front coat of the eye
 - a. Pupil
 - b. Iris
 - c. Retina
 - d. Cornea
- Input in human is mainly through____
 - a. Effectors

	b.	Digestive system
	c.	Senses
	d.	brain
6.	The fol	lowing are examples of effectors
	a.	Fingers
	b.	Limbs
	с.	All of the above
		None of the above
7.	Outpu	t in the human is mainly by
	a.	
	b.	Digestive system
	C.	Senses
		Brain
8.		s the blood vessel-rich tissue behind the retina that nourishes the retina
	d.	Pupii
	b.	
	c.	5.10.014
	d.	· · · · ·
9.	Hapti	c feedback mainly has to do with
	a	
	р	. Feel
	С	. The above
	-	. None of the above
10)	acts as a scratch-pad for temporary recall
		Long-term memory
	t	p. Episodic memory
		Short-term memory
		d. Explicit memory
1	.1. Text	entry devices in a computer includes
		a. Camera
		b. Keyboard
		c. LCD
		d. CPU
	12. Aur	al stimuli is sensed by sensory channel
		a. Haptic memory
		b. Echoic memory
		c. Iconic memory
٠		d. None of the above
		nsider the following statements:
		t is Thursday then we have HCI
		s Thursday
	The	erefore, we have HCI

The statement above falls under which type of reasoning?

a. Inductive reasoningb. Deductive reasoningc. Abductive reasoningd. Problem solving

14. Which of the following is not true of the Gesalt theory?	
a. All problem-solving employs deductive reconstruction	
h. Problem solving is both productive and representation	
c. Productive draws on insight and restructuring a plan	
d. Attractive but not enough evidence to explain insight, etc.	
15. Some interaction styles include the following except	
a. Menus :	
b. Natural language	
c. Point and click	
d. Gazing	
16. The golden rule of design is that	
a. Have a good plan	
b. Plan a good design	
c. Understand your materials	
d. Understand your mind	
17. The main focus of any interaction is to	
a. Know your users b. Talk to your user	
c. Understand your role	
d. Understand your skill	
18. Know your user means the following except	
a. What they look like	
b. Who are they?	
c. Talk to your user	
d. Watch your user	
19. The part of the system that interacts with the immediate environment is called	
a. Environment	
b. Boundary	
c. Feedback	
d. Interface	
20. Short term memory in the computer can be likened to	
a. Flash drive	
b. RAM	
c. Hard disk	
d. None of the above	
21. Long term memory in the computer can be likened to	
a. Cookies	
b. Hard disk	
c. Temp file	
d. None of the above	
22. The following are key terms of interaction except	
a. Intention	
b. Task	
c. Reasoning`	
d. Goal	
23. An organised assembly of components is called a	
23. An organisas and desired a	

	1. 41	
	a.	behavior
	b.	system
	C.	interface
	d.	boundary
1	24. A com	puter system that operates in a predictable manner is described as a
-	a.	Probabilistic system
	b.	Deterministic system
	c.	Closed system
	d.	Open system
-	25. Using	output signals to modify input signals is called
-	a.	
	b.	Environment
	c.	Time lag
	d.	Feedback loop
2	26. Eleme	nts of the design model includes the following except
-		Conceptual design
	b.	Data design
	c.	Interface design
	d.	Architectural design
2	27. The fo	llowing fall in the class of human error
	a.	Forgetfulness
		·
		All of the above
		None of the above
	28. Design	n tools includes
	a.	
	b.	e .
	C.	
	d.	None of the above kes from humans may have the following characteristics except
2		kes from numans may have the following one detensites except
	a.	
	b.	
	c.	Inattention Change to aspect of skilled behavior
	a.	Change to aspect of skined behavior
		ocal system forms part of
	a.	
	b.	A
	c.	Aural sensers

d. None of the above

SECTION B: ANSWER ALL (70MARKS)

1.	I DEULING ICOSVIIIIS	(3marks) (3marks) (3marks) (4marks) (12marks) (5marks)
2.	a. Briefly describe sensory memory?b. State and explain the three channels of sensory memory.c. Draw the structure of the model of the memory and labeld. Explain short term memory?	(4marks) (3marks) fully. (8marks) (5marks)
3.	 a. Briefly explain the following: i. Batch processing ii. Ergonomics b. List the process of design c. Explain the term scenarios in relation to HCI? d. List and explain the stages of the model of the software I 	(3marks) (3marks) (4marks) (4marks) life cycle fully. (6marks)