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**Question Paper Code : 71661**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Eighth Semester

Computer Science and Engineering

CS 6008 — HUMAN COMPUTER INTERACTION

(Common to Information Technology)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define reasoning. List its types.
2. What is Ergonomics?
3. Define prototyping.
4. What do you mean by universal design?
5. List out the types of textual communication.
6. Highlight the applications of hypermedia.
7. Identify the categories of mobile platforms.
8. Give examples of Mobile design tools.
9. What is auto complete pattern?
10. What are the types of overlays?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the model of the structure of human memory with diagrammatic illustration. (10)
- (ii) Outline the factors that can limit the speed of an interactive computer system. (6)

Or

- (b) (i) List and explain the stages of Norman's model of interaction. (8)
- (ii) Outline the common interface styles used in interactive system. (8)
12. (a) With a neat sketch, explain the interaction design process in. (16)

Or

- (b) (i) Narrate the Shneiderman's eight golden rules of Interface Design. (8)
- (ii) Outline the approaches used for evaluation through expert analysis. (8)
13. (a) What is a cognitive model? Classify cognitive models and discuss the same. (16)

Or

- (b) (i) Who is a stakeholder? Outline the types of stake holders and appraise the stakeholders for an airline booking system. (8)
- (ii) Explain the stages involved in CUSTOM methodology analysis. (8)
14. (a) Appraise the types of mobile applications with examples. (16)

Or

- (b) List and explain the elements of mobile design. (16)
15. (a) Summarize the principles for designing rich web interface. (16)

Or

- (b) Design a web interface for a "Library Management System". State the functional requirements you are considering.

Reg. No. : 

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**Question Paper Code : 20346**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Eighth Semester

Computer Science and Engineering

CS 6008 — HUMAN COMPUTER INTERACTION

(Common to Information Technology)

(Regulation 2013)

(Also common to PTCS 6008 – Human Computer Interaction for B.E. (Part time) –  
Seventh Semester Computer Science and Engineering Regulation 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is directive reasoning?
2. List the factors that can limit the speed of an interactive system.
3. Identify the steps involved in interaction design process.
4. Write down the techniques used for prototyping.
5. What is Task-Action Grammar (TAG)?
6. Compare the primary and secondary stack holders.
7. Give some examples of World's largest mobile operators.
8. Define color palette.
9. List any four principles of designing rich web interface.
10. What do you mean by inlay?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the framework of Human Computer Interaction. (10)  
(ii) Highlight the features of direct manipulation interface. (6)

Or

- (b) (i) Discuss the technologies involved in display devices. (8)  
(ii) Brief about common interface styles used in interactive system. (8)

12. (a) (i) Explain the visual tools available for screen design and layout. (8)
- (ii) Outline the activities involved in waterfall model of software life cycle. (8)

Or

- (b) (i) List and explain the factors that influence for choosing an evaluation method. (8)
- (ii) Enumerate Norman's seven principles for transferring difficult task to simple one in design. (8)
13. (a) (i) Explain the concept of key stake level model. (8)
- (ii) Describe the stages of Open System Task analysis (OSTA). (8)

Or

- (b) (i) What are the four types of textual communication? Explain. (8)
- (ii) Write note on Dynamic web content. (8)
14. (a) (i) Describe the roles of major mobile operating system. (8)
- (ii) Tabulate the various mobile design tools and interface tool kits. (8)

Or

- (b) Elaborate on Mobile application medium types. (16)
15. (a) (i) Write notes on contextual tools. (8)
- (ii) Brief about the different types of overlays. (8)

Or

- (b) Explain the steps involved in designing a web interface. (16)



Reg. No. : 

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**Question Paper Code : 50370**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017  
Eighth Semester  
Computer Science and Engineering  
CS6008 – HUMAN COMPUTER INTERACTION  
Common to Information Technology  
(Regulations 2013)

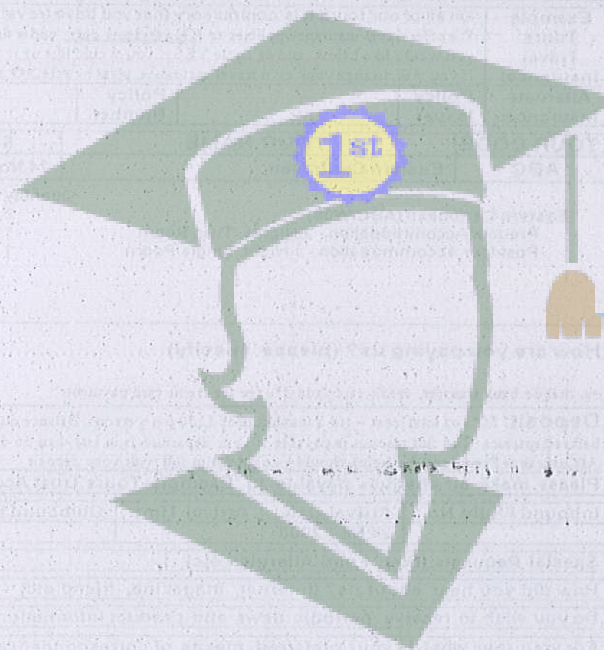
Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A (10×2=20 Marks)

1. How does spreading activation affect the interference effects during information recall from memory ?
2. What type of HCI paradigm could be used to monitor eruptions of active and hazardous volcanoes ? Reason out.
3. Do you think that prototyping will solve all problems associated with user interface design ? Give reasons for your answer.
4. Comment on the usage of colors in emergency response panels.
5. How are groups categorized based on their geographical and temporal location ?
6. What are the characteristics of Computer Support Cooperative Work systems ?
7. Describe the pros and cons of mobile web sites.
8. Draw the layers of mobile ecosystem.
9. Differentiate between modal and non-modal overlays.
10. Suggest some of the best practices to keep in mind during the design of input overlay.



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PART – B (5×16=80 Marks)

11. a) Distinguish between short term and long term memory. State requirements to perform cognitive walkthrough of a system.

(OR)

b) With examples explain the various types of users and the organizational issues to be considered in designing an interactive system.

12. a) Discuss the principles of good UI design. Evaluate the suitability of the manual tour booking form shown in the figure. 1 for automation using the UI design principles.

(OR)

b) Consider the following usability objective.

Theatre booking clerks with low motivation, no computing experience and no previous training, working in a small and hectic box office, are able to learn to reserve or book seats within a one hour period.

What measures could be taken and which techniques would you consider appropriate to test whether this objective was met ?

13. a) Consider the case of preparing a group presentation for a software project. Describe the stages in specifying and designing UI for the same.

(OR)

b) How do 'golden rules' and heuristics help interface designers take account of cognitive psychology ? Illustrate your answer with the design of Microsoft office word.

14. a) Explain briefly about mobile information architecture.

(OR)

b) List and explain the elements of mobile interface design.

15. a) How are contextual tools used in the design of rich web UI ? Illustrate and compare with suitable examples.

(OR)

b) How are virtual pages used in the design of rich web UI ? Illustrate and compare with suitable examples.

Tour Booking Form					
Title / First Name / Surname	Nationality	Passport No.	Issue Date	Exp. Date	Date of Birth
1. Mr A Test					
2. Mrs B Test					
3.					
4.					
5.					
6.					
Address		Emergency Contact Details		Known Medical Conditions	
1 Some Street Sample Town West Sussex SW1 1AA United Kingdom		Name Relationship Address		State any non-swimmers here:	
Tel. No. (home): 44 (0) 222222		Post/Zip Code		Any Medications Required	
Tel. No. (work):		Tel. No. (home)			
E-mail: test@example.com		E-mail			
Example Tours Travel Insurance:	On all of our tours it is compulsory that you have travel insurance. We offer travel insurance policies to UK residents only, under the age of 65. Please enter the insurance option you would like below and circle YES if you would like us to arrange your insurance. (details on our website if you will arrange your own travel insurance, please circle NO and fill in your policy details below.)				Yes No
Alternate Insurance:	Policy Issuer	Policy Number	Emergency Phone No:		
TOUR CODE	TOUR NAME	Start Date	Tour Price:	No.	TOTAL (GBP):
ABC	Eastern Caribbean	24 Nov 2008	£ 320.00	X 2	£ 640.00
		Quantity	Sale price	Sale price total	
		2	320.00 GBP	640.00 GBP	
		1	180.00 GBP	180.00 GBP	
		1	80.00 GBP	80.00 GBP	
				TOTAL	900.00 GBP
How are you paying us? (please specify).....			TOTAL TOUR COST	£ 900.00	
by cheque, bank transfer, credit card (add 2% fee for credit card payments)			LOCAL PAYMENT		
Deposit: 50% of total cost - (to a maximum of £150 per person). Balance due 56 days (8 weeks) before departure. The full amount is payable if your departure is in less than 56 days. All insurance Premiums & Flights should be paid for in full with your deposit. Please make all cheques payable to 'Example Tours Trust Account'			DEPOSIT	£ 0.00	
			BALANCE		
Inbound Flight No.	Arrival Date	Arrival Time	Outbound Flight No.	Departure Date	Departure Time
	24 Nov 2008			10 Dec 2008	
Special Requests (Diet, Food Allergies etc)					
How did you hear about us? (internet, magazine, friend etc) - please specify					
Do you wish to receive periodic news and product information via your e-mail?				Yes	No
For your tour what is your preferred means of correspondence?			E-mail	Telephone	Fax
			Post		
Declaration			Signature (No.)		
I have read, understood, and accept the booking conditions provided on the Example Tours or associated website and authorized, on behalf of all members of my party, by whom I am authorized to make this agreement. I enclose the deposit as detailed above, which is non-refundable in the event of my cancellation.			Date		

Figure 1. Tour Booking form