ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

Approved by : All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi, Recognised by : Directorate of Technical Education, Govt. of Maharashtra, Affiliated to : University of Mumbai.

- SCHOOL OF ENGINEERING & TECHN
- SCHOOL OF PHARMACY
- SCHOOL OF ARCHITECTURE

DEPARTMENT OF COMPUTER ENGG

CLASS:-	**BE**	SEM:-	**VIII**
SUBJECT:-	**HMI**	DATE:-	**01 / 03 / 2018**
DURATION:-	**60 mins.**	MARKS:-	**20**

CLASS TEST 01

	Q.01 Attempt any 5: (10 Marks)	**Mks**	**CO**
a)	Discuss the terms GUI and WUI.	**2**	**CO2**
b)	List 4 examples of Psychopathology of everyday things.	**2**	**CO1**
c)	What is a keyboard accelerator? Give two examples.	**2**	**CO1**
d)	List the different generation of machines with examples of each.	**2**	**CO1**
e)	What factors will you consider in your GUI design if the users are Senior Citizens.	**2**	**CO2**
f)	Explain the 3 types of Users with examples.	**2**	**CO3**
	Q.02 Attempt any 1: (05 Marks)		
a)	What are the 3 levels of processing? Explain any two in detail.	**5**	**CO1**
b)	What is a Persona? Create a Persona for a student studying in college and will use an ERP system.	**5**	**CO3**
	Q.03 Attempt any 1: (05 Marks)		
a)	List the general principles of UI design and explain any 3 in detail.	**5**	**CO2**
b)	What are the seven stages of action? Explain with an example.	**5**	**CO1**

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DEPARTMENT OF COMPUTER ENGINEERING

CLASS:- **BE**	SEM:- **VIII**
SUBJECT:- **PDS**	DATE:- **28 / 02 / 2018**
DURATION:- **60 mins.**	MARKS:- **20**

TERM TEST TEST I

	Q.01 Attempt any 5: (10 Marks)	**Marks**	**CO**
a)	State and Prove Amdhal's Law.	**2**	**CO5**
b)	Define Speedup and Efficiency as performance metrics for parallel computers.	**2**	**CO5**
c)	What do you mean by MIMD. Draw its diagram.	**2**	**CO1**
d)	State any advantages and disadvantages of dataflow architecture.	**2**	**CO1**
e)	Define static and dynamic scheduling.	**2**	**CO1**
f)	Explain any two services offered by middleware system.	**2**	**CO4**
	Q.02 Attempt any 1: (05 Marks)		
a)	Explain different types of pipeline hazards.	**5**	**CO3**
b)	Explain the various types of Parallel Programming Models	**5**	**CO2**
	Q.03 Attempt any 1: (05 Marks)		
a)	Explain the goals of distributed system.	**5**	**CO1**
b)	Explain the concept of Remote Procedure Call.	**5**	**CO4**

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DEPARTMENT OF COMPUTER ENGINEERING

CLASS:- BECO | SEM:- VIII
SUBJECT:- Machine Learning (ML) | DATE:- **28/02/2018**
DURATION:- **60 mins.** | MARKS:- **20**

CLASS TEST 01

		Marks	CO
Q.01 Attempt any 5: (10 Marks)			
a)	Define Machine Learning.	**2**	**CO1**
b)	Explain Regression in brief.	**2**	**CO2**
c)	Write the formulae for Entropy and Information Gain with respect to decision tree learning.	**2**	**CO2**
d)	What is logit, give its formula.	**2**	**CO2**
e)	List any two issues in Machine learning.	**2**	**CO1**
f)	List few applications of Machine learning.	**2**	**CO1**
Q.02 Attempt any 1: (05 Marks)			
a)	Explain the steps required for selecting right machine learning algorithm	**5**	**CO1**
b)	Using following data and linear regression, predict the Final score for a Midterm score of 78.	**5**	**CO2**

Midterm exam (x)	Final exam (y)
72	84
50	63
81	77
74	78
94	90

	86	75			
	59	49			
	83	79			
	65	77			
	33	52			
	88	74			
	81	90			

Q.03 Attempt any 1: (05 Marks)

a)	Explain the steps for developing any machine learning application	**5**	**CO1**
b)	Using below data, construct a Decision Tree.	**5**	**CO2**

Sr.No.	Hair	Height	Weight	Location	Class
1	Blonde	Average	Light	No	Yes
2	Blonde	Tall	Average	Yes	No
3	Brown	Short	Average	Yes	No
4	Blonde	Short	Average	No	Yes
5	Red	Average	Heavy	No	Yes
6	Brown	Tall	Heavy	No	No
7	Brown	Average	Heavy	No	No
8	Blonde	Short	Light	Yes	No

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CLASS:- BE	SEM:- VIII
SUBJECT:- DWM	DATE:- 01 / 03 / 201
DURATION:- 60 mins.	MARKS:- 20

CLASS TEST 01

		Marks	CO
Q.01 Attempt any 5: (10 Marks)			
a)	Define Data Warehouse.	2	CO1
b)	Data Warehouse helps in Strategic Analysis and Decision Making.(State true or false with proper Justification)	2	CO1
c)	Operational System maintains data in de-normalised manner.(State true or false with proper Justification)	2	CO2
d)	Distinguish between Top-down and Bottom-up approaches in Data warehousing.	2	CO1
e)	Operational Vs Decision Support System.	2	CO1
f)	Differentiate between DW and Datamart.	2	CO2
Q.02 Attempt any 1: (05 Marks)			
a)	Explain the role of Meta data in a Data Warehouse.	5	CO2
b)	Illustrate the architecture of a typical DW system.	5	CO2
Q.03 Attempt any 1: (05 Marks)			
a)	Describe the steps of ETL (Extract - Transform - Load) cycle.	5	CO2
b)	For a Supermarket Chain consider the following dimensions namely Product, Store, Time and Promotion. The schema contains a central fact table Sales facts with three measures unit_sales, dollar_sales and dollar_cost. Design star schema for this application.	5	CO2