(3 Hours)

[Total Marks: 80

N.B. (1) Question No.1 is compulsory.

- (2) Out of remaining attempt any three.
- (3) Assume suitable data wherever required.
- (4) Figures to right indicates full marks.

1. Solve any Four

[20]

[10]

- a) What is PMBOK Knowledge areas
- b) Define the following terms
 - (i) Project (ii). Critical path (iii). Earned value (iv). Scope creep (v). Scope leap.
- c) Give the difference between product oriented deliverables and project oriented deliverables.
- d) Explain the importance of feasibility study in IT projects.
- e) What is a project Charter.

Explain the phases of project life cycle and compare it with SDLC.

[10] Explain Project Planning framework

[10] Explain project estimation techniques 3

Explain in brief the objectives of procurement management. [10]

Draw AON diagram and find the activities on critical path. Calculate minimum [10] overall project completion time.

Activity	Description	Estimated Duration (Days)	Predecessor
A	Evaluate current technology platform	2	None
В	Define user requirement	5	A
C	Design webpage layout	4	В
D .	Set up server	3	В
E	Estimate web traffic	1	В
F (b)	Test Web pages and links	4	C,D
G NE	Move web pages to production environment	3	D,E
H	Write announcement	2	F,G
I	Train users	5	G
J _Q , N	Write report to management	1	H,I

What is the cost benefit analysis in projects? List the steps for performing costs benefit [10] analysis.

TURN OVER

Q.P. Code: 633600

2

- 5 a) What is project team? Explain multidisciplinary and multicultural teams
 - b) Explain in brief resource loading, resource allocation and resource levelling.
- 6 a) What is the role of implementation plan? Explain in brief the contents of implementation plan of a project.
 - b) What is meant by Communication Management? What are the strategies for an effective communication system.

BE STEP OF THE WAY

BE SEM-VII (CBS4S) / INFT) Would Computing / Nov-16.

Q.P. Code: 800302

(3	H	0	u	rs)
10	A.A.	v	**	1 3	"

		(5 Hours) Total Warks: 80	
No	ote	 21) Question no 1 is compulsory, solve any 3 questions from remaining 5 questions. 2) Assume Suitable data whenever necessary. 3) Figures in the right indicate full marks. 	
1.	a) b)	What is the need of virtualization? Define Server virtualization, Application virtualization, Presentation Virtualization. Compare the REST and REST paradigms in the context of programmatic communication between applications deployed on different cloud providers, or between cloud applications and those deployed in-house.	10 10
2.	a) b)	Explain conceptual representation of Eucalyptus cloud. Explain in brief the components within the Eucalyptus system. What do you mean by Parallel and Distributed Programming Paradigms in detail? Explain about Hadoop Library from Apache in detail?	10 10
3.	a) b)	What is Data Migration and which type of best practices should be used to protect data during a Migration. Discuss with example how to write JOIN operation using Map Reduce model.	10 10
4	a) b) c)	How is Amazon DynamoDB different from MYSQL database? Explain with respect to database design principles. Compare the following i) Bare-Metal hypervisor, Hosted hypervisor ii) Grid Computing, Cloud Computing. What are 'security groups' & 'key pairs'? What is there significance in Amazon A WS cloud computing environment?	5 10 5
5.	a) b)	How does cloud architecture overcome the difficulties faced by traditional architecture? What are the three differences that separate out cloud architecture from the tradition one? Explain the two fundamental functions, identity management and access control, which are required for secure cloud computing.	10
6.	a) 5)	What is cloud computing? Enlist and explain three service models, and four deployment models of cloud computing. Write short notes on i) Authorization management in cloud computing ii) Challenges in, mobile at cloud shields.	10 10

INFT/Sem-VII (CBSGS)/Intelligent System/Nov-16

Q.P. Code: 790802

[TURN OVER

	(3 Hours)	[Total Marks: 80	
	 Question No.1 is compulsory. Attempt any three out of remaining five. 		
1. (a)	Solve the given puzzle using crypt arithmatic method. B A S E + B A L L		5
	G A M E S		5
(b)	Apply uniform cost search Algorithm on given graph.		·
	3 (A) (C) (F)	J	
->	3 2 B 4 XE 8	- (G)	
	2.0		
(c)	Explain the limitation of propositional logic wth suitable	example.	5
(d)	Write a note on Expert system shell.		5
	Consider the examples. (i) If Triangle is equilateral then it is isosceles. (ii) If Triangle is isosceles then two sides 'A' and '(iii) If 'AB' and 'AC' are equal then Angle 'B' and (iv) ABC is an equilateral Triangle. Prove that angle 'B' is equal to angle 'C' using inferencing ponen and Resolution.	B' are equal. 'C' are equal.	10
	Give the comparative analysis of BFS, DFS, Iterative dees search strateges with respect to Time complexity, Space of and Completnes.		5
(c)	Explain model based Reflex Agent with block diagram.		5
		LITTIDALONED	

(a) Consider the knowledge base KB that contains the following propositional logic sentences.

$$Q \Rightarrow P$$
$$P \Rightarrow \neg Q$$

 $Q \vee R$

- (i) Construct a Truth table trat shows the truth value of each sentence in KB and indicate the model in which the KB is true.
- (ii) Does KB entail R? Use the definition of entailment to justify you answer.
- (iii) Does KB R⇒ ¬ P entail? Extend the truth table and use the definition of entailment to justify your answer.
- (iv) Does KB $Q \Rightarrow \neg R$ entail? Extend truth table and use the definition of entailment to justify your answer.
- (b) What is heuristic function? How we can consider heuristic value in 8-puzzle problem explain?
- (c) Explain PEAS descriptor for Part picking robot and medical diagnosis system.
- 4. (a) You have two neighbours, John and Mary, who have promised to call you at work when they hear the alarm. John always calls when he hears the alarm, but sometimes confuses the telephone ringing with the alarm and calls then, too. Mary on the other hand, likes rather loud music and sometimes misses the alarm altogether. Given the evidence of who has or has not called, we would like to estimate the probability of a burglary.

Draw a Bayesian network for this domain with suitable probability tables.

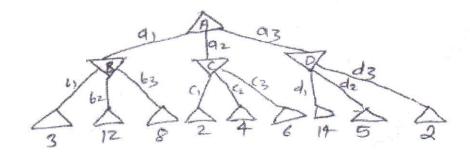
- (b) What is satisfiability? Explain with suitable example.
- (c) Draw and Explain the Export system Architecture.

5

5

5

5. (a) Consider the given Game Tree. Apply the Aplpha- Beta pruning algorithm and decide, what is to be the next best move? (Δ - max node, ∇- min node)



(b) Write prolog program for generating Fibonacci series.

(c) Write a note on conditional probability and its role in AI.

6. (a) Measures 3 and 4 liters of milk when jug of size 7 and 2 are available.

(b) Formulate state space search problem for vaccume world cleaner. 5

(c) What is Ontology? Explain with real world example.

(d) What do you mean by Quantifier and its types? Explain with example. 5

3 Hours

[80 marks]

Note: 1. Question number 1 is compulsory.

- 2. Solve any three questions out of the remaining five questions
- 3. Assume suitable data if necessary
- 4. Figure indicate marks
- Q1 A. Assume a cellular system of 32 cells with a cell radius of 1.6 km, a total spectrum allocation that supports 336 traffic channels, and a reuse pattern of 7.calculate the total service area covered with this configuration, the number of channels per cell, and a total system capacity. Assume regular hexagonal topology.

 (10 marks)
 - B. Explain the main factors of change in economics of wireless technology. (10 marks)
 - Q2 A. Define piconet and scatternet. Explain Bluetooth protocol stack structure. (10 marks)
 B. Explain WIMAX system and compare the different 802.16 standards. (10 marks)
 - Q3 B. Explain GPRS architecture and explain how authentication and encryption is provided in GSM (10 marks)
 - B. Explain 802.11 MAC management functions. Explain in detail Power Management function with a neat diagram. (10 marks)
 - Q4 A. Write short note on wireless sensor networks

(05 marks)

B. Explain Hidden and exposed terminal problem with solution.

(05 marks)

- C. Why is the concept of Spread Spectrum important? Briefly explain FHSS and DSSS concept. (10 marks)
- Q5 A. With a neat diagram explain Electromagnetic Spectrum. List the advantages and disadvantages of wireless technology. (10 marks)
 - B. Neatly explain the WLL Architecture. Explain the two local loop techniques with diagram. (10 marks)
- Write short notes on (any 2):

(20 marks)

- a. VPN
- b. Multiple Access Techniques
- c. Handoff Strategies
- d.. Mobile IP

EINFT/Sem-VIII (CBSGS)/E-Commerce & E-Business/NOV-16

Q.P. Code: 814801

		(3 Hours)	[Total Marks : 80	0
N.B	(2)	Question No.1 is compulsory. Attempt any three from the remaining. Assume suitable data.		
1.	(1) (2) (3) (4) (5)	op a business plan for the Reliance 'Jio' based on the follown Identify the business model. Develop the strategic plan based on Strategic Object definition, Marketing plan, SCM and CRM plan. Implementation should include few screenshown demonstrating: Business model, Revenue model(s) us activities, Marketing activities, Strategic objectives like and objectives, Security concern, Payment mode. One example of use-case scenario. Site structure diagram (blueprint) showing layout a between pages. Organizational structure Hardware and Software requirement.	etives, Strategic ts of websites sed, CRM SCM e mission, vision	0
	secu b) Exp	at is a fire wall? How does fire wall help in providing entity? lain the difference between strategy and tactics. Explain importance of Value chain.		
		at are the issues involved in development of a busine at are common electronic payment methods? Discuss		0
	b) Exp Hov (c) Dis	plain difference between IT strategy and e-strategy? Plain the risks and benefits of applying RFID in the manual care it be adopted in tracking parcels for the ecomocus Technology & Infrastructure for E-Business. Plain Electronics Customer Support	ufacturing sector.	5 5 5 5

TURN OVER

Q.P. Code: 814801

2

٥.	1 /	Using industry examples summarize benefits of ecommerce in streamlining supply chain.	10
6.	(a)	Describe the infomediary business model (e.g. practo, justdial, bharat matrimony) also elaborate on the interested parties willingness to pay in	10
	(b)	the three e.g. stated above. What is customer life cycle? How do you use E-CRM in each of the stages of the Customer Life cycle.	10

(3 Hours)

1.

3.

5.

[Total Marks: 80

10

	 N.B.: (1) Question number 1 is compulsory, solve any three questions from remaining questions. (2) All questions carry equal marks. (3) Specify your answers with neat diagrams and examples wherever necessary. 	
a)	Mumbai is the best place to watch movie, 89% of Mumbaikars are engaged film audiences still think the cinema is the best place to watch a film. According to the research from Bollywood cinema review they questioned more than 20k people across Mumbai about their habits to watch movie. However, from the research it has been clear that age group 16+ in Mumbai Use smart phones, which support mobile apps. To age group 16+ will be the targeted customers for this development. Create an application user interface for mobile users. Using this mobile application user can book ticket, can see upcoming movie lists, can watch thriller and get description of the movie. Finally, user will be allow to place an real time order for snacks, popcorn, ice-creams or drinks by sitting on the hall and get food in their sit.	10
b)	Explain between subjects testing versus within subjects testing.	10
a) b)		10 10
a) b)		10 10
a) b)		10 10
a) b) c) d) e)	Emerging Paradigms of user collaborative systems. Focus Groups. CAUSE Tools.	20

6. a) What are different test goals and different test stages?b) Explain different usability assessment methods.