Paper / Subject Code: 42601 / Software Project Management

INFT, Sem II, CBSGS, NOU'18

e: 3 Hrs Marks; 80	
N.B: (1) Question 1 is compulsory. (2) Out of remaining ANY 3 (3) Assume suitable data wherever required.	
I. Solve ANY FOUR	(20)
(a) How does a project's scope support the MOV concept?	
(b) Describe how a project's MOV can support an organization's goals and strategies.	
(c) What are the attributes of a project?	
(d) What is a process metric & a product? Give an example.	
(e) What are some hidden costs of outsourcing? Why is it important to consider these cost	ts?
2. (a) What are seven IT project risk management processes? Explain each?	(10)
(b) Describe the three approaches to implementing an information system.	(10)
3. (a) Describe the PMBOK area of project time management & What is a work package?	(10)
(b) Describe the roles of a project manager. What qualities are required for a good project manager? What is the difference between a work group and a real team?	t (10)
4 (a) Briefly describe the five scope management processes & describe the scope planning	process
	(10)
(b) Explain the phases of project life-cycle and compare it with SDLC.	(10)
5 (a) Describe the relationship among scope, schedule, and budget	(10)
Describe the criteria that should be used to make a project selection decision.	(10)
Describe the five phases of the IT project methodology	(10)
Describe the functional organizational structure & project organizational structure	(10)

Paper / Subject Code: 42602 / Cloud Computing NOV- 2018 Sem- VII - CBSGS (Total Marks: 80) (Time: 3 hrs) N.B. 1. 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. (05)Q 1) a) Compare various cloud service models. (05)b) Write a note on Amazon Web Service (AWS) b) List the benefits associated with Virtualization? (05)d) How cloud firewall is different from a traditional firewall? (05)(10)a) Explain the architecture of Xen hypervisor in detail 02) b) What is cloud computing? Differentiate between various cloud deployments (10)models. (SMB) a) What are the benefits of public cloud for small and medium business (SMB) (10)Organizations? b) What do you understand by Service Oriented Architecture (SOA)? (10)Explain how it supports cloud computing? (10)(Q4) a) What are the challenges with cloud data security? b) Explain AAA model for cloud computing in detail. (10)

(05) a) Explain GFS file system of cloud in detail, also specify how Bigtable

b) Draw and explain the architecture of mobile cloud computing.

Also list its challenges and benefits.

reside on GFS.

Q6) Write a note on (any two)

(a) Google's no SQL system(b) Eucalyptus Architecture(c) Open Stack Architecture

(10)

(10)

(20)

(Time: 3 Hours)

Total Marks: 80

- (1) Ques 1. is compulsory.
- (2) Attempt any 3 of the remaining 5 questions.
- O1 (a) What is AI? List down all components of AI.

(04)

(b) Explain the limitations of Propositional logic with suitable example.

(04)

(c) Describe the Bayes theorem.

(04)

(d) Explain any AI problem with suitable example.

(04)

(e) Solve the given crypt arithmetic puzzle:

(04)

BASE

+ BALL

GAMES

(10)

b) Explain Goal Based and Utility based agent with block diagram.

Q2. a) Explain Hill Climbing and Simulated Annealing with suitable example.

(10)

Q3. a) What is Prolog? What do you mean by Structure in Prolog?

(10)

Write a Prolog Program for family information systems.
b) What is heuristic function? Explain 8 puzzle problem.

Explain the PEAS descriptor of Wumpus world problem.

(10)

Q4. a) Consider the following sentence

(10)

- (i) Mammals drink water.
 - (ii)Man is Mortal.
 - (iii) Man is Mammal.
 - (iv) Bob is Man.

Prove Bob is Mortal using modus ponen & Resolution.

b) Differentiate between Informed and Uninformed search techniques. Also explain
 A* algorithm with suitable example.
 (10)

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Paper / Subject Code: 42603 / Intelligent System

	QS. a) Explain Planning in AI. Compare and contrast between Partial Order Planning and Conditional Planning. Also explain the real time application of hierarchical	
	planning.	(10)
	b) What is uncertainty? Explain Bayesian Network with example.	(10)
_		(10)
	Q6.Attempt any 4:	
	The state of the s	
	a) Backward chaining with an example.	(05)
		(05)
	b) Expert Shell system architecture.	40 m
	c) Conditional Probability.	(05)
	Conditional Probability.	(05)
	d) Knowledge base agent.	(05)
		(05)
	e) Depth limited search.	(00)
		(05)

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	NFT /	Paper / Subject Code: 42604 / Wireless Technology	NOV-201
		Sem-VII- CBSGS.	
	2. Solve any 3. Figures to	(3 Hours) Number 1 is compulsory. three from remaining questions. the right indicate full marks.	Marks: 80
	4. Assume st	uitable data if necessary	
	by lower power	ency resuse with a neat diagram. Consider a transmitter stan area of 250 kms. If this area is equally divided into 8 cer transmitters so that each cell supports 50% of the channels area of each cell (ii) Total area of voice channels available.	lls, each supported s. Determine:
	b. Define the device security	e threats and challenges in wireless systems. Explain the issues .	different types of (10 marks)
	(2) a. Why is VPN.	tunneling required in VPN. What are the protoco	s which support (10 marks)
	b. Why is the concept.	e concept of Spread Spectrum important? Briefly explain F	HSS and DSSS (10 marks)
		Bluetooth protocol stack with neat diagram. the main factors of change in economics of wireless techno	(10 marks) logy (10 marks)
	(4) a. Classify 80	2.11 MAC management functions. Explain Power manage	ment function in
	detail		(10 marks)
	b. Explain Hid	dden and Exposed terminal problem with solution.	(10 marks)
	diagrams	plain the WLL Architecture. Explain the two local loop	techniques with (10 marks) (10 marks)
	Write short Mobile IP	notes on (any 2):	(20 marks)
	Wireless Sc	ensor Networks	
	Handoff Str	rategies	
	■ Wimax Te	chnologies	
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Paper / Subject Code: 42609 / 5) Usability Engineering / NOV-2018

Sem - VII - CB S US.

(3 Hours) Total Marks: 80

Note: i) Question no. 1 is compulsory

- ii) Attempt any three from remaining
- iii) Assume necessary data
- Create an mobile application interface for online ticket booking for 10 travel agency which provides lists of tours, price list and available seats and food arrangements in the particular tour. User should be able to search for a tour, book the tour, track the bus, and give feedback. Which are the usability aspects you will consider for this application before designing it? How help and documentation plays a important role? 10 (b) 10 Show the evolution of user interfaces and explain them. (a) 10 Explain parallel and participatory design (b) 10 (a) Minimize User Memory Load 3. Explain various phases in usability engineering lifecycle 10 (b) 10 (a) Explain test tasks to be performed and stages of test. How Test Users obtained and Experimenters are chosen. 10 (b) Explain in brief about interface standards 10 (a) 10 Discuss about usability slogans. 20 Write short note on
 - a) National International standards
 - b) Usability Laboratories
 - c) CAUSE Tool
 - d) Ethical aspects of tests with human