VIII - IT SPM

13/5/16

QP Code: 31274

	(3 Hours)	[80 Marks]
N.B. (1). Q	uestion No.1 is compulsory.	,
(2). Ot	at of remaining attempt any three.	
(3). As	sume suitable data wherever required.	Y
(4). Fi	gures to right indicates full marks.	, ^ \
		[5] [5] [5] [5] [5]
Ques.1, Sol	ve any [Four]:	2/2
a).	Describe PMBOK	[5] ·
b).	Explain Triple constraints of a project.	2 [5]
c).	Explain Business Case.	[5]
d).	Explain formal and informal organisation.	[5]
e).	What is project? What are the attributes of a project?	[5]
Ques.2 a).	Explain work breakdown structure with example.	[10]
b).	Explain various project scheduling techniques. Explain the diff CPM and PERT.	erence between [10]
Ques.3 a).	Explain project leadership and ethics.	[10]
b).	List and explain the steps involved in terminating a project.	[10]
Ques.4 a).	What is project risk management? What are the RM processes?	[10]
b).	Distinguish resource loading from resource levelling. Why is le resources preferred to large fluctuations?	evelling of [10]
Ques.5 a).	Explain project life cycle and its relation with SDLC.	[10]
S. S.	How can a system be a technical success but an organization	al failure? [10]

FW-Con. 9951-16.

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Cloud computing

QP Code: 31314

	N	.B. :((1) (1)	1 is compulse	(3 Н	ours)		[Total	Marks	
	14			. 1. is compulso ttempt any three		e.	**		se.	00,Pb
	1.	(a) (b) (c)	Expla What	are cloud deploy in benefits of virt saas maturity mo	tualization? odel?	¥	8 2	19120169:36	Sty th	5 5 5 5 5
		(d)	Expla	in different types	s of hyperv	isor with exa	mple.	9.36	.2	5
	2.	(a) (b)		in Openstack Ard in Xen architectu			*	912016		10
	3.	(a) (b)		are the features in cloud Data Se		file system?	(R)515)		N N	10 10
	4.	(a) (b)	What Expla	are techqnines fin AAA model for	or the risk or cloud?	assessment a	ndmanage	ement for o	cloud?	10 10
	5.	(a)	What	is the impact cations?	of shared	resources an	d Multi-T	enancy of	n cloud	10
		(b)	100	are the fundamen	ntal require	ments for clo	oud applica	ition archi	tecture?	10
1	6.	Write	e a not (a) (b) (c)	Cloud Service I Mobile cloud C Amzon simple I	omputing OB	Tr.	er Er		* * .	10
			(d)	Modes of Euca	iptus				* * * * * * * * * * * * * * * * * * *	80
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B.E. Sem. III. Cessors) IT Intelligent System

25/5/11

Q.P. Code: 31352

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

Attempt any five

[Total Marks: 80]

In the second of the remaining five questions.

20

What are modus ponen?

(c) Define Alpha & Beta value in game tree?

(d) Differentiate between prepostional and predicate longue.

(e) Give Agent Task Environment of Image analysis.

(f) Explain in short what is Expert System Shell.

Consider a knowledge base KB that containsentenced.

Q \Rightarrow P

P \Rightarrow \Rightarrow a
Q \rightarrow R

(f)

- Construct a truth table that shows the truth value of each sentence in KB and indicate the model in which KB is true.
- Does KB entail R? use definition of entailment to justify your (ii) answer.
- (iii) Does KB R \Rightarrow Pentail? Extend the truth table and use the difinition of entailment to justify your answer.
- Does KB Q R entail ? Extend the truth table and use the (iv) difinition of entailment to justify your answer.
- Explain simulated annealing with diagram. Where it is used?

3. (a) Measure 1 liter water if available Jug sizes are 7 liters and 5 liters.

(b) What is PEAS descriptor? Explain PEAS descriptor for Taxi diver Agent.

You have two nighbour, John and Mary, who have promised to call you at (c) 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 other hand, likes rather loud music and some times 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 table.

TURN OVER

FW-Con. 11275-16.

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Q.P. Code: 31352

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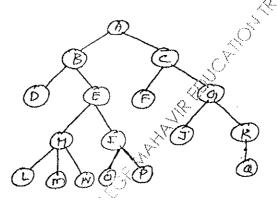
20

2

- 4. (a) Assume the following facts:
 - (i) It is a crime for an American to sell weapons to hostile nations.
 - (ii) The country Nano an enemy of America.
 - (iii) Nano has some missiles; all of its missiles were sold to try it by Colonel West.
 - (iv) Colonel West is an American

Use resolution to answer the question "Colonel West is a Criminal"

- (b) Differentiate between Informed and uniformed search techniques. Also give comparative analysis of various uninformed search techniques.
- 5. (a) Apply DFS algorithm on given tree write the sequence of nodes in which it is explored.



- (b) List down all types Agent Architechture. Explain utility based and learning agent.
- (c) What is Expert System explain its working with block Diagram.
- 6. Write Short notes on any Four.
 - (a) Ontology
 - (b) Crypto Arithmatic Problem
 - (c) WUMBUS world Environment
 - (d) Partial order planner with STRIP representation
 - (e) Prolog.

FW-Con. 11275-16

Course: B.E. (Sem VII) (REV. -2012) (CBSGS) (IT) (Prog-T5127)

QP Code 31352

Correction

Q. 3 (c) & Q. 4 (a), 4 (b) are of 10 Marks each,

Q. 5 (a) is of 8 Marks

Q.5 (b) is of 5 Marks

Q.5 (c) is of 7 Marks

Date and Time 25/05/2016 11:15 AM



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Q.P. Code: 31422

ω.	(2½ Hours) [Total Marks :	89
N.B. :	 (1) All questions are compulsory. (2) Solve any three questions out of the remaining five questions 	
1. A)	Consider a cellular network with 64 cells. Each hexagonal cen has an appropriate area of 10 km². The total number of radio channels afforted for	10
	a) N = 4 b) N = 7 c) N = 12. Where N denotes cell reuse.	
B)	Illustrate FHSS and DSSS with suitable examples	10
2. A)	Explain in detail functional architecture of a GSM system.	10
В)	Explain in detail MMDS and LMDS working in WLL based technology.	10
3. A)	Explain in detail IEEE 802.11 WLAN Architecture.	10
В)	Explain in detail Hidden Terminal and Exposed terminal problem with respect to WLAN.	10
4. A)	Explain in wireless security offered by IEEE 802.11 in detail with neat diagram.	10
B)	Explain in detail Bluetooth Protocol architecture with neat diagram.	10
5. A)	Explain Bluetooth security aspect.	10
B)	Explain WEP protocol in detail.	10
6. Wri	te short note:	20
9	a. OFDM b. WIL Architecture	
×.	c. Satellite Systems d. MACA	
P		



QP Code: 31598

(3 Hours)

[Total Marks: 80

N.B.: Q1 is compulsory.

Write any three questions out of remaining.

Assume suitable data wherever necessary.

Q1 Q2	05 05 05 05 10	(a) Show that High pass = original – low pass (b) How contrast stretching is different than thresholding (c) Explain Digital water marking and its application (d) Explain Discrete time system (a) Find DFT of the image
Q2	05	(c) Explain Digital water marking and its application (d) Explain Discrete time system

0	1	2	1
1	2'	3	2
2	3	4	3
1.	2	3	2

(a) Calculate the direction of the edge at the centre point of the image 1.0 10 Q3

5 7

Explain various frequency domain low pass filters in detail Perform histogram stretching so that new image has a dynamic range of [0, 7] Q4

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Grey	0	1	3	3	4	5	6	7	ĺ
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No. of	100	98-50	85	70	0	0	O	U	Ì
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	Differentiate between point operation and neighbourhood operations	10
(b)	Differentiate Deliveen point operation techniques	10
(a)	Compare lossless and lossy compression techniques	10
(b)	Explain application of image processing in digital watermarking	
(12)	For the given 3 bit, 4x4 size image perform the following operations	10
(a)	For the grading pit, 4x4 are image beautiful	
	(I) thresholding	

bit plane slicing for LSB and MSB planes Explain waish and wavelet transform

10

Q5

Q6

10

