MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY DIT STAGE 5

MOBILE COMPUTING CIT 2301 MAIN EXAM SEP-DECEMBER 2019

instruction: answer question one and any two questions

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QUESTION 0NE(30 marks)	
(a) differentiate between nomadic computing and ubiquitous computing	(3 mks)
(b) state three characteristics of wireless sensor networks	(3 mks)
(c) what do you understand by the following terms	(6 mks)
I. celluar network	,
II. cell	
III. MAHO	
IV. BSS	
V. MSC	
VI. VLR	
	dza(A mlza)
(d) state 4 requirements of a Secure Routing Protocol for Ad Hoc Wireless Networ	
(e) Differentiate between mobile ip and celluar ip	(4 mks)
(f) discuss five application areas of mobile computing with relevant examples	(5 mks)
(g) discuss three challenges of mobile computing devices	(3 mks)
(h) discuss two types of WLAN	(2 mks)
QUESTION TWO(20 marks)	
(a) discuss three components of mobile IP	(6 mks)
(b) explain three reasons why hand-off occurs	(3 mks)
(c) what do you understand by GSM in mobile computing	(2 mks)
(d) compare and contrast IPV4 and IPV6 in mobile computing	(9 mks)
(a) company and comment and a second company of the second company	(>)
QUESTION THREE(20 marks)	
(a) discuss two ways of coping with uncertainties in mobile computing	(4 mks)
(b) discuss four WLAN protocols you know	(4 mks)
(c) discuss two location management implementation methods in mobile computing	
(d) discuss the three main phases of mobile IP process	(8 mks)
QUESTION FOUR(20 marks)	(01)
(a) discuss the components of WLAN	(8 mks)
(b) discuss two types of Mobile value added services	(4 mks)
(c) state the IEEE 802.11 specifications you know in networking	(6 mks)
QUESTION FIVE(20 marks)	
(a) discuss five challenges in mobile computing	(10 mks)
(b) why do we use hexagonal shape in cellar networks for cells	(4 mks)
(c) discuss two types of trunks used in networks.	(6 mks)