

# FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT OF INFORMATION AND MEDIA TECHNOLOGY

# SECOND SEMESTER 2015/2016 EXAMINATION

COURSE CODE: IMT 321

COURSE TITLE: SYSTEMS PROGRAMMING

CREDIT UNITS: 3

TIME ALLOWED: 2 HOURS

COURSE LECTURER(S): MR. S.O. GANIYU AND MR. M.E. BIMA

NUMBER OF QUESTIONS: 29 OBJECTIVES AND 5 THEORIES

NUMBER OF PAGES: 4

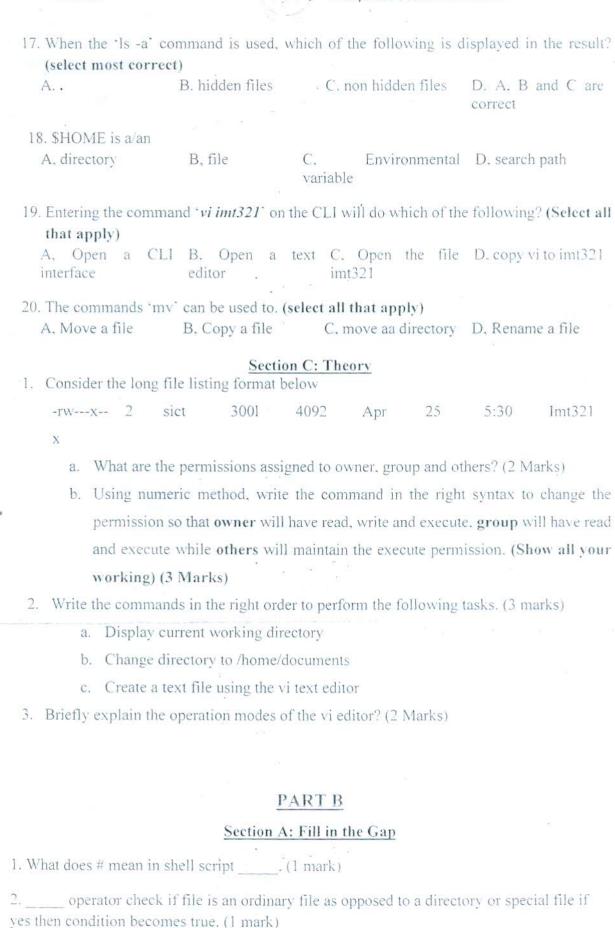
# INSTRUCTIONS

- Answer all questions
- Do not use red pen
- Please use a clear handwriting
- This exam is closed book, closed notes, closed laptop and closed cell phone
- Please use non-programmable calculators only

# PART A

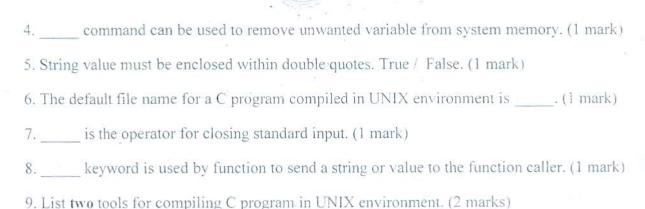
Section A: Fill in the Gap

1.	The two base version	n of UNIX are	and		
		stems supported in UI			
		and			
3					
	The bin directory contains				
4. To search for the documentation of a particular UNIX command, type				, type	
5.	The 'passwd' is used to				
6.	The 'mnt' directory	contains	files.		
7.		and	are thr	ee types of files	
	recognized in UNIX file system.				
	Consider the long file format below and use it to answer questions 8-10				
	drwxr-x-x 2	300l Imt321 4096	Apr 25 04:11	Grand	
8.	The size of the file is	S .			
	What kind of file is				
		equivalent of group's	nermission on Grand		
10.	. What is the numeric	equivalent of group s	permission on Grand		
		Carrier D. Maldala	Chaire Countiers		
4.4	W11.3 CT CH	Section B: Multiple			
	A. C shell	ing is not a shell avail:	C. Korn shell		
	A. C. Shen	B. Com shen	C. Kom shen	D. Dourn shen	
		ing is a category of co			
	A, User Command	B, useradd	C. Add group	D. command	
13.	The command 'who	ami` is used to			
				ve D. displays user	
	username	users	terminals	group	
14.	Every UNIX operati	ng system has	at the top level of i	at the top level of its hierarchical structure.	
	A, C:	B. ~	C. \	D. /	
15	5. To execute comma	nds which require Ad	ministrative privilege	s command is	
	used.	4			
	A. pseudo	B. psudo	C, sudo	D. seudo	
16	The commands 'who	ami' and 'who am i'	perform same function	1.	
			C. Not sure	D. It depends	
	9				



3. and are the two types of user defined variables. (1 mark)

## 2015/2016 Second Semester



## Section B: Theory

- 1. (a) List any two (2) tools for editing UNIX shell script. (2 marks)
- (b) What is the role of shebang in UNIX script? (2 marks)
- (c) Describe the four (4) important concepts of UNIX shell scripts. (4 marks)
- 2. (a) Explain the errors in the Bourne script below: (2 marks)

#!/bin/sh

NUM1 = 5

NUM2 = 10

if [ \$NUM1 -gt \$NUM2 ] then

echo first entry is greater than second entry

(b) Write a script that computes the average of three numbers that it received from command prompt when it runs. The script should write the result to a file called ans.txt without overwriting the contents of the file. (5 marks)

Best of luck.