

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF MASTER OF EDUCATION (PLANNING & ECONOMICS OF EDUCATION)

(MAIN CAMPUS)

EMA 845: MICRO (PROJECT) PLANNING IN EDUCATION

Date: 16th April, 2014

Time: 2.00 - 5.00 p.m.

INSTRUCTIONS:

· Answer THREE questions. Question ONE is COMPULSORY.



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(MAIN CAMPUS)

EMA 845: MICRO (PROJECT) PLANNING IN EDUCATION.

DATE TIME								
INSTRUCTIO COMPULSAR		REE	QUESTIONS:	QUESTION	ONE	IS		
Q1. Formulate a flow chart for the following activities and determine the critical path and the float times (20marks)								
	Activity		duration					
	A= Create a Schedule	e	10days					
	B = Buy Hardware		5 days					
	C = Programming		20 days					
	D = Installation		5 days					

 C = Programming
 20 days

 D = Installation
 5 days

 E = Test Code
 20 days

 F = write man
 15 days

 G = Conversion
 5 days

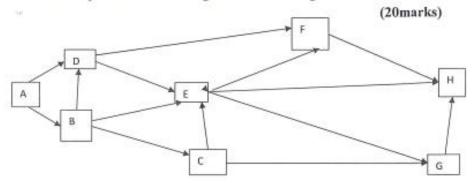
 H = Test system
 10 days

 I = Training
 5 days

 J = Retrial
 5 days) dummy activity

K = Retraining 5 days) dummy activity
L = User Test 10 days
M = Reviewing 2 days

Q2. Redraw the diagram below by inserting activity time and the critical path. Find the critical path and float time given the following additional information.



AD = 3DAYS, AB = 4 Days, BD = 5 DAYS, DF = 9 DAYS, DE = 7 DAYS, BE = 8 Days

BC = 5 DAYS, CE = 6 DAYS, CG = 4 DAYS, EG =, EH = 3DAYS, EF = 10 DAYS, FH = 3 DAYS, GH = 5 DAYS.

Q3. Consider the activities shown below for the construction of a garage

ACTIVITY	DURATION	
Prepare foundation	7 days	
Make and position door frame	2 days	
Lay drains, floor base and screed	15 days	
Install services and fittings	8 days	
Erect Walls	10 days	
Plaster ceiling	2 days	
Erect roof	5 days	
Install Door and Windows	8 days	
Fit Gutters and pipes	2 days	
Paint outside	3 days	
a) Draw the path for the activities	(6marks)	

- b) Formulate a table for backward and forward activities to determine float time and critical path. (14 marks)
- Q4. (a) Discuss the Advantages and disadvantages of Program Evaluation and Review Technique (PERT) (10 marks)
 - (b) Discuss the applications of PERT in Project Evaluation (5marks)
 - (C) Examine the importance of critical path in project management (5 marks)
- Q5. Advise the project manager by determining the critical path and float time of Activity Network below to find two critical paths to be followed to complete the project. Which path should be avoided and why?

 (20 marks)

NETWORK DIAGRAMS.

