



ZIMBABWE EZEKIEL GUTI UNIVERSITY

FACULTY OF LAW, BUSINESS INTELLIGENCE AND ECONOMICS

DEPARTMENT OF ECONOMICS, MARKETING AND ENTREPRENEURSHIP

EXAMINATION PAPER

COURSE CODE : CPS 413
COURSE TITLE : Project In Supply chain Management
SPECIAL REQUIREMENTS : Calculator
DURATION : 3 Hours
LEVEL : 4:2
DATE : 10 JUN 2024

INSTRUCTIONS TO CANDIDATES:

1. No cell phones are allowed in the examination venue.
2. **QUESTION ONE IS COMPULSORY**
3. Answer **QUESTION ONE AND ANY THREE (3)** questions.
4. Begin each question on a new page.
5. The number of marks for each question or part question is shown in brackets []
6. Use of practical examples where necessary is encouraged

QUESTION ONE

A small project consisting of eight activities has the following characteristics:

Time Estimates (in weeks)

Activity	Preceding activity	Most Optimistic time(a)	Most likely time (m)	Most pessimistic time (b)
A	-	2	4	12
B	-	10	12	26
C	A	8	9	10
D	A	10	15	20
E	A	7	7.5	11
F	B,C	9	9	9
G	D	3	3.5	7
H	E,F,C	5	5	5

- i) Draw a PERT Network for the project. **(10 Marks)**
- ii) Prepare the activity schedule for the project. **(10 Marks)**
- iii) Determine the critical path and show the variance of the project. **(5 Marks)**

QUESTION TWO

- i) Explain the quality flow diagram. (Use of the diagram will attract 4 marks) **(20 Marks)**
- ii) Give five (5) Importances of Quality Management. **(5 Marks)**

QUESTION THREE

A building project has these set timelines.

Activity	Predecessor	Duration (days)
A	Start	20
B	Start	10
C	B	9

D	B	15
E	A	7
F	A	19
G	C,D	14
H	E,F	8
I	G	15
J	H	12

- i) Draw a network diagram, performing a forward and backward pass to determine the ES, LS, EF, and LF for all activities and show the critical path **(20 Marks)**
- ii) Find the float/slack for all the activities. **(5 marks)**

QUESTION FOUR

Explain these terms in detail and give a practical example in each explanation:

- i) Plan Scope Management **(5 Marks)**
- ii) Collect Requirements **(5 Marks)**
- iii) Work breakdown structure **(5 Marks)**
- iv) Validate Scope **(5 marks)**
- v) Control Scope **(5 marks)**

QUESTION FIVE

Explain the stakeholder management process. (Include the flow chart in your explanations. It attracts 4 marks.) **(25 Marks)**

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