



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

ALL CIVIL ENGINEERING COURSES

SUBJECT: Project Management

**PAPER NO : 578/15/S11
578/22/S11**

DURATION: 3 hours

MARCH/ APRIL 2025 EXAMINATION

REQUIREMENTS

- 1) Answer booklet
- 2) Calculator

INSTRUCTIONS TO CANDIDATES

Answer any four (4) questions.

QUESTION 1

- a) Explain what you understand by motivation. (5 marks)
- b) Describe critics of Maslow's hierarchy of needs. (8 marks)
- c) Outline two (2) advantages and disadvantages of bar charts. (6 marks)
- d) Explain six (6) importances of construction planning. (6 marks)

QUESTION 2

- a) Outline provisions that are put to protect the interest of client in a project. (5 marks)
- b) Explain the advantages of owning plant. (6 marks)
- c) Describe seven factors which contractors decide on before tendering for a job. (14 marks)

QUESTION 3

Explain the six (6) phases which are included under the generic project life cycle model. (25 marks)

QUESTION 4

Suppose a project comprises five activities A,B,C,D and E. A and B have no preceding activities but activity C requires that activity B must be completed before it can begin. Activity D cannot start until both activities A and B are complete. Activity E requires activities A and C to be completed before it can start. If the activities times are A:9 days, B:3 days; C:9 days; D:5 days and E:4 days

- a) Draw a Gantt chart for the above information. (10 marks)
- b) Identify those activities which are critical in terms of completing the project in the shortest possible time. (5 marks)
- c) Outline ten (10) benefits of using a Gantt chart. (10 marks)

QUESTION 5

- a) Explain the following terms:
 - i) Line authority and staff authority (4 marks)

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- ii) Formal and informal authority (4 marks)
- b) Project objectives should be SMART. Explain the meaning of that abbreviation when talking of project objectives. (10 marks)
- c) Describe what happens under matrix management. (7 marks)

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