INSTRUCTIONS
Read the following instructions carefully before answering the questions:
1. This question paper consists of 3 pages.
2. Read each question carefully before answering it.
3. Questions can be answered in any sequence. Ensure that you clearly number your answers.

QUESTION 1
1.1 Explain what is meant by technological pedagogical content knowledge (TPACK) with the aid of a diagram. (6)

1.2 Plan a lesson on a topic in Life Sciences by referring to the different phases in lesson planning discussed in this module. Your integration of technology should be very clearly visible throughout the lesson plan. Use the following headings to structure your lesson plan:
1.2.1 Grade of learners and topic (2)
1.2.2 Lesson objectives (4)
1.2.3 Invitation/ Attention focusing (2)
1.2.4 Teaching strategy and methods (4)
1.2.5 Questioning (2)
1.2.6 Media (2)
1.2.7 Consolidation (2)
QUESTION 2
Inquiry-based approach describes a cluster of learning and teaching approaches in which learners' ideas or research drive the learning experience. Learners conduct inquiries that enable them to engage actively with questions and problems associated with their subject or discipline. (Levy, Lameras, McKinney & Ford, 2011).

2.1 Describe what happens during an inquiry-based lesson.

2.2 Discuss two benefits of inquiry-based learning to the learners.

2.3 Discuss two challenges teachers commonly face in their attempt to implement an inquiry-based approach in their teaching.

2.4 Explain how the concept of improvisation could be used to address challenges teachers encounter in their implementation of an inquiry-based approach.

QUESTION 3
3.1 Explain the principle of inclusivity in the NCS/CAPS curriculum.

3.2 Discuss strategies that you would use in supporting learners overcome language barriers in a science classroom.

TOTAL: 50

----oOo----