## **BONDO UNIVERSITY COLLEGE**

## SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES

## **SECOND YEAR FIRST SEMESTER 2013**

## SBT 201: GYMNOSPERMS AND ANGIOSPERMS TAXONOMY

## **INSTRUCTIONS:**

ANSWER <u>ALL</u> QUESTIONS IN SECTION A AND ANY <u>TWO</u> QUESTIONS IN SECTION B.

# **SECTION A (30 MARKS)**

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- 2. Distinguish between the class Liliopsida and Magnoliopsida. (4 marks)
- 3. How many cellular nuclei does the pollen tube of angiosperms have? Name them and state the ploidy of each of these nuclei. (4 marks)
- 4. Differentiate between gymnosperms and angiosperms (4 marks)
- 5. Briefly describe double fertilization in angiosperms (4 Marks)
- 6. Outline the six principles of taxonomy (3 Marks)
- 7. Describe how the female gametophyte is formed in angiosperms (4 marks)
- 8. State the different between the endosperm of gymnosperms and the endosperm of angiosperms (3 Marks)

## **SECTION B (40 MARKS)**

- 11. Describe Herbarium techniques and their importance to angiosperm and gymnosperm taxonomy (20 marks)
- 12. Write an essay on the historical classification of Angiosperms (20 marks)
- 13. Discuss the diversity of gymnosperms (20 marks)
- 14. Describe the basic model of alternation of generations as it applies to gymnosperms and angiosperms, noting similarities and differences with other plant groups (20 Marks)