



# UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

## SECOND SEMESTER EXAMINATIONS, MAY 2018

COURSE NO: GL 228 [Unihubgh.com](http://Unihubgh.com)

COURSE NAME: ROCK AND MINERAL DEPOSITS OF GHANA

CLASS: GD II TIME: 3 HOURS

Name: \_\_\_\_\_

Index Number: \_\_\_\_\_

### ANSWER ALL QUESTIONS

**1 mark per correct answer**

3 HOURS

1. Name the rocks from which Birimian rocks were formed.
2. Name the main Pre-Cambrian rock units existing in Ghana.
3. By what criteria are they classified.
4. Identify the main Phanerozoic rock units in Ghana.
5. Birimian Rocks were deposited on what lithologies.
6. Name the rocks which were deformed during the orogenic cycle.
7. What is the present name of the Upper Birimian?
8. What is the present name of the Lower Birimian?
9. Give the structure of the Birimian rocks.
10. What is the lithological composition of the meta-volcanic rocks of the Birimian?
11. What is the stratigraphy of the Birimian rocks?
12. Name the post Birimian granitoids.
13. Identify the economic minerals associated with the Birimian rocks of Ghana.
14. Identify the types of gold mineralisation in the Birimian rocks of Ghana.
15. Name the gold belts of Ghana.
16. What is the genesis of gold in the Birimian rocks in Ghana?
17. Name the biggest of the gold belt in Ghana and its dimensions.
18. Name the type of gold mineralisation in the Tarkwaian rocks in Ghana.
19. What is the composition of the matrix of the Banket Series conglomerates of Ghana?
20. Give the stratigraphy of the Tarkwaian Group of Ghana.
21. What is the composition of the post Tarkwaian intrusives?

22. Name the diamondiferous areas in Ghana.
23. What is the primary ore for diamonds?
24. What are the host rocks of diamonds in Ghana?
25. Which of these areas produces the highest amount in Ghana?
26. What are the units of measurements of diamonds?
27. Name the various areas where manganese ore can be found in Ghana.
28. What is the mineralogical composition of the manganese ore at Nsuta?
29. Name the process of the conversion of the manganese carbonates into oxides.
30. Identify the areas for the iron deposits in Ghana.
31. Name the process of formation of iron deposits.
32. Name the minerals which make up bauxite.
33. Which areas in Ghana do we have bauxite deposits?
34. Name the areas where iron deposits are located in Ghana.
35. What are the types of host rocks they are found in?
36. What is the stratigraphic succession of the Dahomeyan System of Ghana?
37. What are the boundaries of the Togo Series of Ghana?
38. What is the stratigraphy of the Togo Series?
39. Give the lithological composition of the Buem Formation
40. What is the stratigraphy of the Voltaian System?
41. Name the type of metamorphism of rocks of the Voltaian System?
42. What is the area and thickness of the Voltaian System?
43. What rocks make up the Coastal Sedimentary Basin rocks?
44. Name a type of unconformity with Accraian Rocks.
45. What is the origin of Petroleum?
46. Give a proof of the one you believe.
47. What are main areas of Petroleum Exploration in Ghana?
48. Name the off-shore Petroleum Deposits.
49. Name the on-shore Petroleum Deposits.
50. Give one name of one of the contributors of Ghanaian geology?

*Examiners: Daniel Nana Asamoah/Dr GM Tetteh*