FACULTY: ENGINEERING

2ND SEMESTER EXAMINATIONS (JUNE/JULY 2015)

2014 / 2015 ACADEMIC SESSION

COURSE CODE: **GNE 102**

COURSE TITLE: **ENGINEERING-IN-SOCIETY**

DURATION: **1 Hours**

HOD'S SIGNATURE

INSTRUCTIONS:

1. ATTEMPT **ALL** QUESTIONS IN SECTION A AND **ONE** QUESTION IN SECTION B

2. SEVERE PENALTIES APPLY FOR MISCONDUCT, CHEATING, POSSESSION OF UNAUTHORIZED MATERIALS DURING EXAM.

SECTION A – *40 mins.*

Each of the question in this Section carry 1 Mark – 40 Marks

1. Professional is an adjective of the word ----------
2. Example of Professionals are ---------- and ----------
3. When planning to get a job that you will find interesting, you need to know ----------; ----------; ----------and ----------
4. Science derives its name from Latin word know as ----------
5. Science has the root in the infinitive verb known as ---------- and ----------
6. Science is defined as ----------
7. The aspect of Science that summarizes and explain facts and principles discovered about the universe and its inhabitant is known as ----------
8. The Science include ----------; ---------- and ----------
9. Archimedes was a mathematician who worked on ----------
10. The first natural philosopher who flourished in the 6th Century BC is ----------
11. Two major developments in the 15th century radically changed the course of Western World, they are - ---------- and ----------
12. The Scientific method is ----------
13. Engineering is defined as ----------
14. Engineers used steel and concrete to ----------; ----------; and ----------
15. Engineering is the application of ----------
16. Technology is defined as ----------
17. Craft started ---------- while Natural Philosophy started ---------- and Science started ----------
18. The Scientist Purpose is to ----------
19. The Technologist purpose is to ----------
20. Ecole des ponts at Chaussees (School of Bridges and Roads) First Engineering School in France stated in ----------
21. Mechanical Engineering started in ----------
22. Electrical Engineering started in ----------

23. Intercahngeable machine parts by Eli Whitney (US) started in ----------

24. The oldest main field of engineering is ----------

25. The engineering field that deal with separation of minerals from their ores and prepare them for use is -
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26. The engineering field that deal with automation, missile, radio, satellite is ----------

27. Safety is defined as ----------

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28. Safety can be observed in ----------; ---------- and ----------

29. The occupational Safety and Health Act of 1970 (known as "OSHA") provides for ----------
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30. Risk is defined as ----------

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31. Manufacturing risk involves ----------

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32. Technologist is a ----------

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33. One of the roles of Engineers in Nation building is ----------
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34. The Ethics of Engineering does ----------
and ----------

35. The usual requirement for registration of Engineer in Nigeria are ----------
---------- and ----------

36. The registration of Engineer in United States of America involve ----------
---------- and ----------

37. The example of primary industries or extractive industries are ----------
---------- and ----------

38. Different Trades available are ----------
---------- and ----------

39. Industrial Management deals with ----------

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40. The Chinese applied the principle of division of labour in ----------
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SECTION B – *20mins.*

1. (a) A profession one choose for himself may offer adventure, challenge, and accomplishment. Sometimes, it is also possible that the career chosen for one self can also present uncertainty, difficulty, and dissapointment. Discuss this in relation to the Engineering Profession and the course of study you choose for yourself – *10 Marks*

   (b) Use Use a typical example to illustrate an engineering profession that present uncertainty, difficulty and dissapointment – *10 Marks*

2 (a) Explain technological risk – *5 Marks*

(b) State 5 situation where risk can occur and enumerate the way out.- *5 Marks*

(c) Write short note on Charles Babbage (1792-1871) one of the management pioneers. – *5 Marks*

(d) Can Nigeria survive as a Nation its economic crunch without the utilization or participation of Engineers, Technologists, Technicians and Craftsmen in Nation Building? – *5 Marks*