



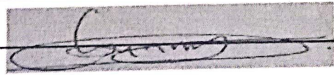
ELIZADE UNIVERSITY, ILARA-MOKIN,  
ONDO STATE, NIGERIA

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND SEMESTER EXAMINATIONS  
2017/2018 ACADEMIC SESSION

COURSE: GNE 102 – Engineer-in-Society (1 Unit)  
CLASS: 100 Level General Engineering  
TIME ALLOWED: 1 Hour  
INSTRUCTIONS: Answer all questions

Date: July/August, 2018

  
HOD'S SIGNATURE

1. Sciences from Social and Biological sciences are EXCEPT:  
(a) Zoology b) Anthropology c) Chemistry d) Sociology
2. The following is necessary to have in mind when planning to have a career EXCEPT  
(a) Knowing your capability b) The Needs, Desire and Attitude c) Money as the main goal d) Available Job Opportunities
3. \_\_\_\_\_ is the knowledge arranged in an orderly manner, especially knowledge obtained by observation and testing of facts in pursuit of knowledge
4. \_\_\_\_\_ summarizes and explains the facts and principles discovered about the universe and its inhabitants while \_\_\_\_\_ searches for the practical use of scientific knowledge useful to man.
5. Archaeological remains of prehistoric humans that showed the content of science are:
  - a. tracking the seasons and times of the year
  - b. regular scratches on bone and reindeer horns
  - c. Calligraphic writing
  - d. Cave Painting
6. \_\_\_\_\_ is a technology which enables society to create, collect, consolidate, manage and process information in multimedia and various digital formats for different purposes.
7. \_\_\_\_\_ was the first scientist in history that looked for patterns in nature to explain the way the world worked rather than believing everything happened only because of the Greek gods commanded it
8. Which scientist in history influenced the rise of natural philosophy and first insisted that disease was a natural and not supernatural phenomenon  
(a) Socrates b) Hippocrates c) Hipparchus d) Aristotle
9. Two major developments in the 15<sup>th</sup> century that radically changed the course of the western world are \_\_\_\_\_ and \_\_\_\_\_
10. The time of the Muslim conquest of a great part of the Mediterranean World was known as \_\_\_\_\_
11. The Dutch Scientist Christiaan Huygens invented \_\_\_\_\_ and \_\_\_\_\_ during the birth and development of Modern Science.

12. The uses of science involve the following EXCEPT:
- It has revolutionalised transportation
  - It brought about industrial revolution
  - It has reduced man's healthier life
  - It has revolutionalised the raising of crops and livestock
  - It has improved the weapons system of the armed forces
13. The \_\_\_\_\_ method is a way of thinking about problems and solving them.
14. The scientific method of planning involves the following EXCEPT:
- Interpreting Data
  - Drawing Conclusions
  - Stating the solution
  - Forming the hypothesis
15. \_\_\_\_\_ is the study, mastery and utilization of manufacturing and industrial methods, systematic application of knowledge to practical tasks in industry.
16. \_\_\_\_\_ is the application of scientific principles to the optimal conversion of natural resources into structures, machines, products, systems and process for mankind
17. A scientist purpose is to \_\_\_\_\_ while a technologist purpose is to \_\_\_\_\_.
18. The fundamental Canons of Ethics in engineering involves the following EXCEPT
- Hold paramount the safety, health, and welfare of the public.
  - Perform services in different areas of different profession.
  - Issue public statements only in an objective and truthful manner.
  - Act for each employer or client as faithful agents or trustees.
19. One of the original traditional engineering disciplines is:
- Computer Engineering
  - Agricultural Engineering
  - Automotive Engineering
  - Civil Engineering
20. The Water Turbine and the Steam Turbine are important milestones in which branch of engineering
- Chemical Engineering
  - Mechanical Engineering
  - Civil Engineering
  - Mining Engineering
  - Agricultural Engineering
21. St. Peters Church is one of the milestones in Civil Engineering which was constructed in which country:
- USA
  - Egypt
  - Italy
  - France
22. The Development of Engineering Education started as far back as year
- 850AD
  - 10,000BC
  - 1850
  - 1750
23. Mechanical Engineering have the following areas of specialization EXCEPT:
- Industrial Engineering
  - Building Services, Refrigeration and Air Conditioning
  - Automotive Engineering
  - Structural Engineering
  - Mechatronics
24. A \_\_\_\_\_ engineer searches for minerals and decides how to remove the ore from the ground cheaply and efficiently as possible while a \_\_\_\_\_



- Engineer separates the minerals from their ores and prepares them for use
25. The branch of Metallurgical Engineering that deals with processing minerals to give such properties as strength, hardness or stiffness
- Physical Metallurgy
  - Extractive Metallurgy
  - Mining Metallurgy
  - Petroleum Metallurgy
26. Primitive man lived in \_\_\_\_\_ or \_\_\_\_\_ to protect himself from dangerous wild beasts and enemy tribes.
27. \_\_\_\_\_ measures expected risk probability to forecast estimated financial losses from potential risks
- Quantitative Risk Analysis
  - Qualitative Risk Analysis
  - System Risk Analysis
  - Product Risk Analysis
28. OSHA in engineering means
- Occupational Security and Hazard Act
  - Occupational Safety and Hygiene Act
  - Occupational Safety and Health Act
  - Occupational Safety and Hazard Act
29. \_\_\_\_\_ is defined as the possibility or chance of meeting dangers suffering loss or injury  
(a) Safety (b) Risk (c) Accident (d) Precaution
30. The branch of Engineering that aims to ensure that a life critical system behaves as needed even when pieces fail
- Fire Engineering
  - Risk Engineering
  - Safety Engineering
  - Product Engineering
31. Safety in the engineering workshop can be observed by
- Wearing helmets
  - Wearing slippers
  - Running on Slippery grounds
  - Avoiding safety rules and regulations
32. The Different stages of Risk Analysis involves the following EXCEPT:  
(a) Assess (b) Produce (c) Control (d) Respond
33. \_\_\_\_\_ engineer research accidents caused by the use and misuse of products
- System Safety
  - Fire Safety
  - Road Safety
  - Product Safety
34. A \_\_\_\_\_ applies scientific information for practical uses while a \_\_\_\_\_ uses specialized technical skill to translate scientific ideas into useful product or services

35. A \_\_\_\_\_ directs building operations such as factories, dams, bridges
- Project Manager
  - Consulting Engineer
  - Construction Engineer
  - Production Engineer
36. The role of engineer in nation building involves the following EXCEPT:
- Development of local raw materials for industrial use
  - Facilitating the increase of import dependence and import content of manufactured good
  - Promotion and development in the area of acquisition of technological know- how
  - Fabrication of machine, tools and equipment that meet international standard
37. COREN in Nigeria means
- Committee of Registered Engineers in Nigeria
  - Council of Registered Engineers in Nigeria
  - Council for the Regulation of Engineering in Nigeria
  - Committee for Regulation of Engineering in Nigeria
38. The Code of Ethics for professional engineers tells:
- How the engineer should conduct himself in professional dealings with the public, clients, employers and other engineers
  - The engineer to argue with contractors in a rude manner
  - The engineer how to design a substandard structure or equipment
  - The quack engineer how to construct skyscraper buildings
39. Engineering personnel's in Nigeria can only be registered as an ENGR. only after acquiring at least how many years of professional engineering practice following graduation from a higher institution
- 2
  - 4
  - 3
  - 5
40. Engineering technologist are \_\_\_\_\_ holders while engineering technicians are \_\_\_\_\_ holders
- OND and HND
  - HND and OND
  - NCE and OND
  - Degree and NCE
41. \_\_\_\_\_ is a trade (especially between two countries) which involves the exchange and distribution of goods
- Commerce
  - Industry
  - Management
  - Engineering

42. \_\_\_\_\_ branch of industry process the raw materials supplied from the direct use of natural resources
- Primary Industry
  - Secondary Industry
  - University Industry
  - Tertiary Industry
43. \_\_\_\_\_ is used to mean a group of persons called executives that make every action or decision to help achieve a carefully chosen goal
- Commerce
  - Industry
  - Management
  - Engineering
44. \_\_\_\_\_ industries make direct use of natural resources while \_\_\_\_\_ industries involve the selling and final use of products and services
45. The processing of raw materials is usually called \_\_\_\_\_
46. Problems of Industrialization in Nigeria are the following below except
- Inadequate Capital
  - Poor transport Facilities
  - Regular power supply
  - Problems of skilled and dedicated worker
47. The aspect of management which deals with the planning of workflow and the entire production process is termed
- Personal Management
  - Industrial Management
  - Financial Management
  - Market Management
48. The aspect of management which deals with the worker's compensation, welfare and scheduling is termed
- Personal Management
  - Industrial Management
  - Financial Management
  - Personnel Management
49. The aspect of management which deals with capital required to support the production and distribution of company's goods and/or services is termed
- Personal Management
  - Industrial Management
  - Financial Management
  - Market Management
50. The Chinese applied the principle of division of labour in the year
- 1940 BC
  - 1950 BC
  - 1644 BC
  - 1300 BC



51. Industrial Revolution in England Started in the year  
 (a) 1770 (b) 1600 (c) 1300 (d) 1500
52. Fredrick W. Taylor believed that science should do the following EXCEPT:  
 (a) Separate the planning of work from its execution  
 (b) Accept some special responsibility for planning, directing and organising work  
 (c) Recognise the existence of management problems  
 (d) Replacing the rule of thumb methods with measurement and experimentation  
 (e) Salaries and Wages
53. Henry L. Gantt developed \_\_\_\_\_ chart for graphically representing work to be done and work already accomplished
54. The book on "The Principles of Scientific Management" was written by who in 1911  
 (a) Charles Babbage  
 (b) Fredrick Taylor  
 (c) Henry Gantt  
 (d) Harrington Emerson
55. Frank and Lillian Gilbreth developed a \_\_\_\_\_ study and its inclusion as a basic part of scientific management.
56. The special kind of mining engineering that deals with the drilling of wells and producing, transporting and sorting oil and Natural Gas is:  
 a. Petroleum Engineering  
 b. Bitumen Engineering  
 c. Nuclear Engineering  
 d. Mining Engineering
57. The first culture to undertake true scientific inquiry was that of the  
 a. The middle ages  
 b. The ancient greeks  
 c. The Renaissance  
 d. The germans
58. \_\_\_\_\_ is the possibility of an unseen development that influences our welfare  
 a. Safety  
 b. Risk  
 c. Technology  
 d. Science
59. The father of scientific management that published the book titled "The Principles of Scientific Management in 1911 is  
 a. Charles Babbage  
 b. Fredrick Taylor  
 c. Harrington Emerson  
 d. Frank Gilbreth
60. The Agency of Government in Nigeria that deals with the promotion of Nigerian goods to be exported to other countries is  
 a. Nigerian Customs Service  
 b. Nigerian Immigration Service  
 c. Nigerian Export and Promotion Council  
 d. Nigeria Shippers Council