

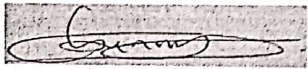


ELIZADE UNIVERSITY, ILARA-MOKIN
ONDO STATE
EXAMINATION (60 MARKS)

DEPARTMENT OF MECHANICAL ENGINEERING
SECOND SEMESTER EXAMINATIONS
2018/2019 ACADEMIC SESSION

CLASS: 100 Level General Engineering
COURSE: GNE 102 – Engineers in Society (1 Unit)

TIME ALLOWED: ONE HOUR


HOD'S SIGNATURE

INSTRUCTIONS: ANSWER ALL QUESTIONS.
SEVERE PENALTIES APPLY FOR MISCONDUCT, CHEATING, POSSESSION OF UNAUTHORIZED MATERIALS DURING EXAM. YOU ARE NOT ALLOWED TO BORROW CALCULATORS AND ANY OTHER WRITING MATERIAL

Date: July, 2019

1. A _____ engineer finds the best way to transform raw materials into a finished product, while an _____ engineer puts scientific discoveries to work for man by improving existing materials and products and also discover new ones
2. The following are 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. The following are the archaeological remains of prehistoric humans that showed the content of science EXCEPT-----
 - a. tracking the seasons and times of the year
 - b. regular scratches on bone and reindeer horns
 - c. Speech Education
 - d. Cave Painting
6. _____ brought about the birth of natural philosophy
 - a. The Roman science
 - b. The Greek science
 - c. The Arabic Science
 - d. The European science
7. _____ is a technology which enables society to create, collect, consolidate, manage and process information in multimedia and various digital formats for different purposes.

8. _____ 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
9. Which scientist in history influenced the rise of natural philosophy and first insisted that disease was a natural and not supernatural phenomenon
10. Which scientist believed that everything must be reduced to numbers and the whole universe was built on mathematics
11. The time of the Muslim conquest of a great part of the Mediterranean World was known as _____
12. The invention of typography and discovery of printing happened in _____ century and this period is known as the _____ period
13. The uses of science involve the following EXCEPT-----
- It has revolutionised transportation
 - It brought about industrial revolution
 - It has reduced man's healthier life
 - It has revolutionised the raising of crops and livestock
14. _____ is the description and explanation of the development of positive knowledge at different ages and in different places
- History of Science
 - Philosophy of Science
 - Birth of Science
 - Development of Science
15. The scientific method of planning involves the following EXCEPT-----
- Interpreting Data
 - Drawing Conclusions
 - Stating the solution
 - Forming the hypothesis
16. _____ is the study, and utilization of manufacturing and industrial methods, systematic application of knowledge to practical tasks in industry.
17. The time and era of the Muslim conquest of a great part of the Mediterranean World is known as _____
18. _____ is the application of scientific principles to the optimal conversion of natural resources into structures, machines, products, systems and process for mankind
19. A scientist purpose is to _____ while a technologist purpose is to _____.
20. The oldest of the main field of engineering is:
- Electrical and Electronic Engineering
 - Agricultural Engineering
 - Mechanical Engineering
 - Civil Engineering
21. The Water Turbine and the Steam Turbine are important milestones in which branch of engineering
- Chemical Engineering
 - Mechanical Engineering
 - Civil Engineering
 - Mining Engineering
22. Eiffel Tower is one of the milestones in Civil Engineering which was constructed in which country
- USA
 - Egypt
 - Italy
 - France
23. The chemical engineer does the following except-----
- Controls large scale chemical processes in a manufacturing plant
 - Handle large quantities of chemicals for production processes
 - Control processes such distillation, crystallization, filtration and mixing

Study: 1
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Transfer exhaust gases back to the production line

4. The development of engineering education started as far back as year
- a. 850AD
 - b. 10,000BC
 - c. 1850
 - d. 1750
25. 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
26. The branch of Metallurgical Engineering that deals with processing minerals to give such properties as strength, hardness or stiffness
- a. Physical Metallurgy
 - b. Extractive Metallurgy
 - c. Mining Metallurgy
 - d. Petroleum Metallurgy
27. Primitive man lived in _____ or _____ to protect himself from dangerous wild beasts and enemy tribes.
28. _____ measures expected risk probability to forecast estimated financial losses from potential risks
- a. Quantitative Risk Analysis
 - b. Qualitative Risk Analysis
 - c. System Risk Analysis
 - d. Product Risk Analysis
29. _____ act of 1970 in Nigeria provides for the establishment and enforcement of workers' safety and health status in Industries
30. _____ type of risk is the possibility of encountering dangers such as fire, flood, storm or earthquake in a production facility
- a. Administrative Risk

- b. Liability Risk
- c. Product Risk
- d. Insurance Risk

31. _____ is defined as the possibility or chance of meeting dangers suffering loss or injury
- a. Safety
 - b. Risk
 - c. Accident
 - d. Precaution
32. The branch of engineering that aims to ensure that a life critical system behaves as needed even when pieces fail is-----
- a. Fire Engineering
 - b. Risk Engineering
 - c. Safety Engineering
 - d. Product Engineering
33. Categories of technical workers in Engineering are separated into the following EXCEPT-----
- a. Technicians
 - b. Engineers
 - c. Mechanics
 - d. Technologist
34. The Dutch scientist that invented the balance spring and the pendulum clock is known as
- a. Empedocles
 - b. Charles Babbage
 - c. Frank Gilbreth
 - d. Christiaan Huygens
35. The Different stages of Risk Analysis involves the following EXCEPT-----
- a. Assess
 - b. Produce
 - c. Control
 - d. Respond
36. A _____ engineer researches accidents caused by the use and misuse of products
- a. System Safety
 - b. Fire Safety
 - c. Road Safety
 - d. Product Safety
37. A _____ applies scientific information for practical uses while a

_____uses specialized technical skill to translate scientific ideas into useful product or services

- c. NCE and OND
- d. Degree and NCE

38. A _____ directs building operations such as factories, dams, bridges

- a. Project Manager
- b. Consulting Engineer
- c. Construction Engineer
- d. Production Engineer

43. _____ is a trade (especially between two countries) which involves the exchange and distribution of goods

- a. Commerce
- b. Industry
- c. Management
- d. Engineering

39. The role of engineer in nation building involves the following EXCEPT----

- a. Development of local raw materials for industrial use
- b. Facilitating the increase of import dependence and import content of manufactured good
- c. Promotion and development in the area of acquisition of technological know-how
- d. Fabrication of machine, tools and equipment that meet international standard

44. A _____ plan is used during risk analysis to help minimize damage

- a. Commerce
- b. Industry
- c. Management
- d. Engineering

40. COREN in Nigeria means

- a. Committee of Registered Engineers in Nigeria
- b. Council of Registered Engineers in Nigeria
- c. Council for the Regulation of Engineering in Nigeria
- d. Committee for Regulation of Engineering in Nigeria

46. _____ industries make direct use of natural resources while _____ industries involve the selling and final use of products and services

- a. Hold paramount the safety, health, and welfare of the public.
- b. affix their signatures to any plans or documents dealing with subject matter in which they lack competence, nor to any plan or document not prepared under their direction and control.
- c. Issue public statements only in an objective and truthful manner.
- d. Avoid deceptive acts.

41. Safety colours observed in various places are:

- a. Warning Yellow
- b. Dangerous Purple
- c. Emergency Red
- d. Precautionary Blue

42. Engineering technologist are _____ holders while engineering technicians are _____ holders

- a. OND and HND
- b. HND and OND

48. Problems of Industrialization in Nigeria are the following except-----

- a. Inadequate Capital
- b. Poor transport Facilities
- c. Regular power supply
- d. Problems of skilled and dedicated worker

49. 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
50. The aspect of management which deals with the worker's compensation, welfare and scheduling is termed
- Personal Management
 - Industrial Management
 - Financial Management
 - Personnel Management
51. 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
52. The Chinese applied the principle of division of labour in the year
- 1940 BC
 - 1950 BC
 - 1644 BC
 - 1300 BC
53. Industrial Revolution in England Started in the year
- 1770
 - 1600
 - 1300
 - 1500
54. Fredrick W. Taylor believed that science should do the following EXCEPT-----
- Separate the planning of work from its execution
 - Accept some special responsibility for planning, directing and organising work
 - Recognise the existence of management problems
 - Replacing the rule of thumb methods with measurement and experimentation
 - Salaries and Wages
55. Henry L. Gantt developed _____ chart for graphically representing work to be done and work already accomplished
56. The book on "The Principles of Scientific Management" was written by who in 1911
- Charles Babbage
 - Fredrick Taylor
 - Henry Gantt
 - Harrington Emerson
57. Frank and Lillian Gilbreth developed a _____ study and its inclusion as a basic part of scientific management.
58. The special kind of mining engineering that deals with the drilling of wells and producing, transporting and sorting oil and Natural Gas is:
- Petroleum Engineering
 - Bitumen Engineering
 - Nuclear Engineering
 - Mining Engineering
59. The first culture to undertake true scientific inquiry was that of the
- The Middle ages
 - The ancient greeks
 - The Renaissance
 - The Germans
60. The Agency of Government in Nigeria that deals with the promotion of Nigerian goods to be exported to other countries is
- Nigerian Customs Service
 - Nigerian Immigration Service
 - Nigerian Export and Promotion Council
 - Nigeria Shippers Council