

CROSS RIVER UNIVERSITY OF TECHNOLOGY CALABAR
CENTRE FOR GENERAL STUDIES
2ND SEMESTER, 2018/2019 SESSION EXAMINATION
GSS 1202: HISTORY AND PHILOSOPHY OF SCIENCE

INSTRUCTIONS: Answer all Questions

TIME: 1 ½ Hrs

SECTION A (Each question carries 1 mark)

1. Philosopher was described as “A Revisionary Popperian”
2. The transfer of technology can be possibly done by
3. According to Karl Popper, the degree in which theory is falsified is known as
.....
4. The Sun-centered theory of the universe was known as Geocentrism. True/False?
5. The differences between bacteria and viruses areand
.....
6. According to any scientific theory that cannot be falsified through conceivable observation is not qualified to be called as such.
7. Two components of Imre/Lakatos research programs are
and
8. The three sub-layers of the atmosphere are and
..... and
9. The etymological meaning of science is derived from the Greek word ‘Sciro’, and this means
.....
10. The theory of relativity was propounded by Isaac Newton. True/False
11. is the coldest planet in the solar system.
12. The intellectual development of human civilization, according to August Comt went through three phases namely and and
13. “*The open society and its enemies*” was a book written by Thomas Kuhn. True/False
14. The theory of Geocentrism was propounded by Nicholas Copernicus. True/False
15. The philosophy of Paradigm Shift is associated with
16. The gaseous supporting realm of the human environment is known as
17. The ultra-violet rays from the sun is being intercepted by
18. Invented the Telescope
19. The idea of protective belt in philosophy of science is associated with
20. Who wrote the book, “*The Voyager of the Beagle*”?
21. According to Karl Popper, the truth-content of a scientific theory can be known theory
.....
22. Another terminology for applied science is
23. According to the science of Genetics, every cell in the human body contains
..... Chromosomes
24. Direct Sun rays on the earth’s surface causes the following effects and
.....
25. The Heliocentric view of the universe simply means
26. Water pollution in our environments is caused by the following agents and
.....
27. Name two (2) agents of land pollution and
.....
28. For a theory to be termed scientific, it must possess the following characteristics,
..... and
29. Philosophy as a discipline is also a science. True/False
30. Name three members of the school of logical positivism
..... and
31. Hypothetic deductionism in philosophy of science was propounded by
32. The methodology of scientific programme is associated with
.....

33. The hallmark of invention are and
34. Give practical examples of pseudoscience and
35. The first physician of the ancient world was a black Egyptian called
36. Technology can be divided into and
37. Inductivism as a method in philosophy of science propounded by
38. The scientific study of the universe is known as
39. The basic argument presented by the Vienna Circle as a school of thought in Philosophy of Science is anchored on and
40. The members of the Vienna Circle are..... and
41. Identify the methods of African science and
42. The two scientific theories about the origin of the universe includes
43. The foundation of all scientific knowledge originated from observation and and
44. State two aims of technology in Nigeria and
45. and are the two remote causes of environmental pollution in Nigeria.
46. and are the two types of medical science.
47. Examples of practical sciences includes and
48. Bone or connective tissue cells is one of the specialized cells in man. True/False
49. The following are the consequences of the depletion of the ozone layer and
50. The male pair of sex chromosomes is XX, while that of the female is XY. True/False

SECTION B: EACH QUESTION CARRIES 2 MARKS

51. Science and technology relates with each other in the areas and
52. List two ingredients that are used in the process of Saponification and
53. The three elements that led to the explosion according to the big bang theory are and and
54. Isaac Newton's law of gravity is divided intoand
55., and are three elements that are contained in the sphere of the earth known as Lithosphere.
56. What are the basic ingredients in the formulation of a hypothesis in scientific research?
57. Discuss two advantages of Genetic Engineering and
58. Differentiate between Heliocentrism and Geocentrism and
59. What is Philosophy of Science?
60. and are examples of steps taken towards the formulation of scientific theory.

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TIME: 1 ½ Hrs

SECTION A (EACH QUESTION CARRIES TWO (2) MARK

1. The depletion of the Ozone layer leads to the following consequences:
and
2. Science and technology relate with each other in that areas of
and
3. List two ingredients that are used in the process of saponification
..... and
4. The three elements that led to the explosion according to the big bang theory are
..... and
5. Isaac Newton's law of gravity is divided into and
.....
6. According to world health organization (WHO), health is defined as
7. What is a Hypothesis in scientific research?
8. Genetic engineering has many advantages. Identify two
..... and
9. What is the relationship between technology and invention?
and
10. Identify two examples of applied science
and

SECTION B

11. Geocentrism simply means Sun-centered universe. True/False
12. The famous atomic theory was formulated in 1803. True/False
13. According to any scientific theory that cannot be falsified through conceivable observation is not qualified to be called as such.
14. Two components of Imre Lakatos research programme are
and
15. The nucleus of a radioactive element contains
and
16. The methodology of scientific research programme is associated with
17. The hallmarks of invention are and
18. Calcium as a mineral in the human body is derived from
and
19. The first known physician of the ancient world was a black Egyptian called
20. Bacteria and virus can be referring to the same thing. True/False
21. Inductionism as a method in philosophy of science was propounded by
22. The scientific study of the universe is known as
23. The basic argument presented by logical positivism as a school of thought in philosophy of science on
..... and
24. and
are the fundamental characteristics of any scientific theory.
25. The members of the Vienna Circle are
and
26. Identify the methods of African science,
..... and
27. The two scientific theories about the origin of the universe include

- and
28. The foundation of all scientific knowledge originated from
29. State two aims of technology in Nigeria and
30. and are the two types of applied science.
31. and are the two types of applied science.
32. Examples of practical sciences include and
33. The three gases that make up the atmosphere include the following
..... and
34. Etymologically, science is derived from the Greek word called
35. The difference between African and western science is
and
36. is the coldest planet in the solar system.
37. According to Auguste Comte, the three stages of intellectual development are
..... and
38. The book "*The open society and its enemies*" was written by
39. Nicolas Copernicus wrote the book entitled '*The Origin of Species*'. True/False
40. The philosophy of paradigm shift is associated with
41. The life-supporting realm of the human environment is known as
42. and are two types of cores of the sun
43. The layer that intercepts Ultra-Violet rays from the Sun is known as
44. According to theoretical anarchism is more humanitarian than the laid down principles in philosophy of science.
45. The idea of the protective belt in the philosophy of science is associated with
46. Who wrote the book, "*The Voyage of the Beagle*"?.....
47. The atmosphere contains three sub-layers namely
48. The earth as a part of the solar system belongs to the galaxy known as
49. According to Karl Popper, verisimilitude can also be known as
50. What is the full meaning of the abbreviation MESRP
51. The book, '*Structure of Scientific Revolution*' was written by
52. Identify two effects of the Sun rays on the earth's surface
and
53. The Heliocentric view of the universe simply means
54. Identify three types of water pollution
....., and
55. Name two causes of land pollution and
56. What are the three basic components of a scientific theory?
.....and
57. In philosophy of science, corroboration and falsification is associated with
58. Logical positivism as a school of thought can also be known as
59. Who propounded the theory of relativity?
60. Both evolution and creationism talk about the origin of the universe. True/False

CROSS RIVER UNIVERSITY OF TECHNOLOGY CALABAR
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INSTRUCTIONS: Answer all Questions

TIME: 1 ½ Hrs

SECTION A

1. deals with foundation, assumption and structure of science
2. The galaxies are also known as
3. Man's cosmic environment is made up of realms such as the hydrosphere, biosphere, atmosphere and
4. The Greek word for science is
5. The hall marks of technology are and
6. is the application of scientific theory and principles
7. Verisimilitude means
8. MSRP means
9. List the components of Lakatos' research programme i.
ii. iii.
10. is the non-nourishing substance in food
11. The polymer whose building blocks are amino acids is
12. Excess intake of water leads to
13. virus causes Polio
14. is a preventive aspect of medicine
15. The eclipse of 585BC was predicted by
16. Hippocrates is regarded as the father of Ethics
17. The hypothetical deductionism as a method of verification in Philosophy of Science is the brain child of
18. Non-living resources are managed by and
19. The difference between Western Science and African Science is anchored on
and
20. 'Theoretical Anarchism is more humanitarian than the laid down principles in science'. This assertion is associated with
21. Calcium as a mineral in the human body is derived from
and
22. The Baconian thesis in Philosophy of Science is also known as
23. The word biology was first used in the early part of the 19th century by
24. Antoine Laurent Lavoiser's book enhanced a rapid development of Chemistry
25. Between and there was a disagreement as to who formulated the differential calculus
26. and are identified by logical positivists as two dimensions of verification
27. The evolutionary development of man from an ape-like primate was marked by factors
28. The first physician of the ancient world was the black Egyptian called
29. is generally created with the first systematic formulation of an atomic theory matter
30. State the W.H.O definition of health:
.....
.....

SECTION B

31. Mention the stages involved in technological transfer
32. Mention the arguments in favour of abortion
33. What is your understanding of the word atmosphere?
34. Mention the effect of the sun's rays on the earth
35. The localization of technology means
36. The lithosphere is defined as
37. When relationships are symbiotic we mean
38. Define mythology
39. What is determinism in Philosophy of Science
40. Someone once described the philosopher as 'a person who describes the impossible and proves the obvious'. What does this definition suggest?.....
41. Without the revival of the Pythagorean perspective, modern science never would have gotten off the ground because the Pythagoreans provided i.....
ii..... and iii.....
42. What is a light year?.....
43. What is Genetic Engineering?
44. Differentiate between cosmology and cosmogony
45. What is the relationship between science and technology?
46. What is the relationship between science and society

Explain these four stages of technological transfer.

47. Awareness
48. Adaptation
49. Innovation
50. Invention

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INSTRUCTIONS: Answer all Questions

TIME: 2 Hrs

SECTION A

1. A basic argument presented by local positivism as a school of thought in philosophy of science is anchored on and
2. and are the fundamental characteristics of any scientific theory.
3. The members of the Vienne circle are and
4. Identify methods of Africa science: and
5. The two scientific theories about the origin of the universe include and
6. The foundation of all scientific knowledge originated from
7. The two (2) aims of technology in Nigeria are and
8. and are the two remote causes of environmental pollution in Nigeria
9. and are the two types of applied science.
10. Examples of practical sciences include and
11. The three gases that make up the atmosphere include the following and
12. According to theoretical anarchism is more humanitarian than the laid down principles in philosophy of science.
13. The idea of the protective belt in the philosophy of science is associated with
14. Who wrote the book, *"The Voyage of the Beagle"*?
15. The earth as a solar system belongs to the galaxy known as
16. What are the three sub-layers of the atmosphere? and
17. According to Karl Popper, the truth content of two different theories can be calculated and known through the process of
18. What is the full meaning of the abbreviation MERP
19. The structure of Scientific Revolution was written by
20. Identify 2 effects of the sun rays on the earth's surface and
21. The Heliocentric view of the universe simply means
22. Identify 3 types of water pollution and
23. State Isaac Newton's 3rd law of motion
24. In philosophy of science, corroboration and falsification is associated with
25. What are the three basic components of a scientific theory? and
26. 'Who was the father of Microbiology?
27. Who propounded the theory of relativity?
28. The most important spheres of the Earth are?
29. Geocentricism simply means Sun-centered universe. True/False
30. The famous atomic theory was formulated in 1803. True/False
31. According to any scientific theory that cannot be falsified through conceivable observation is not qualified to be called as such.
32. Identify 2 components of Imre Lakatos research programme are and

33. The spontaneous disintegration of the nucleus of a radioactive substance produces 3 elements namely, and.....
34. Etymologically, science is derived from the Greek word called
35. The difference between African and western science is and
36. is the coldest planet in the solar system.
37. According to Auguste Comte, the three stages of intellectual development are and
38. The book "*The open society and its enemies*" was written by
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46. Calcium as a mineral in the human body is derived from and
47. The first physician of the ancient world was a black Egyptian called
48. Both evolution and creationism talk about the origin of the universe. True/False
49. Inductionism as a method of philosophy of science was propounded by
50. The scientific study of the universe is known as

SECTION B

51. World Health Organization (WHO) defines health as
52. Identify 2 advantages of genetic engineering and
53. What is hypothesis?
54. What is the relationship between science and society?..... and
55. Mention 3 criteria that a celestial body must meet in order to qualify as a planet:....., and
56. Identify 2 consequences of ozone layer depletion and
57. Identify 2 cardinal relationships between science and technology and
58. List 2 ingredients that are used in the process of saponification and
59. List 2 ingredients that are used in the process of saponification and
60. Define Newton's law of Gravity
.....