

GSS 132 (HISTORY AND PHILOSOPHY OF SCIENCE)

CENTRE FOR GENERAL STUDIES AND COMMUNICATION SKILLS,
UNIVERSITY OF CALABAR
GSS 132 (HISTORY AND PHILOSOPHY OF SCIENCE)

1. The procedure by which conclusions and discoveries are made in every science is called (a) Scientific theory (b) Scientific method (c) Scientific invention (d) A, B and C
2. One of these is the main task of philosophy of science (a) To ensure success in research (b) To increase knowledge (c) Building theories in science (d) Examine the logical features and methodological features of the sciences
3. Philosophy reveals the basic order to ascertain the nature, scope of knowledge claims in science (a) False (b) True (c) Incorrect proposition (d) none of the above
4. Ancient philosopher who supported the Geo-centric view of the universe was (a) Thales (b) Plato (c) Anaximander (d) Aristotle
5. The heliocentric view was actually the brain child of who (a) The church fathers (b) Thomas Hobbes (c) Nicholas Columbus (d) Copernicus
6. The idea that the search for knowledge must be done with sensory data and perception is associated with ___ (a) Karl Popper & Karl Marc (b) Positivism (c) Determinism (d) V. I. Lenin
7. Philosophy of science is derived from (a) Basic sciences (b) natural sciences (c) Natural philosophy (d) Philosophy
8. Science as an aspect of philosophy started breaking away in ___ (a) 18th century (b) 19th century (c) 18th and 19th centuries (d) All of the above
9. The first scientific breakthrough was made by (a) Galileo (b) Albert Einstein (c) Thales (d) Nicholas Copernicus
10. The science of mathematics is traceable to (a) Democritus (b) Numerical philosophers (c) Protagoras (d) Miletians philosophers in Greece
11. Space and Time are part of the larger ingredient of (a) Modern physics (b) Modern atomism (c) Modern science (d) Modern physics and astronomy
12. Who were the forerunners of modern atomism (a) Anaxagoras and Leucipus (b) Big bang theory (c) Democritus and Leucipus (d) Einstein and Campbell
13. All knowledge was known as (a) Natural science (b) Natural philosophy (c) Philosophy (d) All of the above
14. The Greek miracle in science occurred in what year (a) 19th century (b) 13th and 14th centuries (c) 6th century (d) 5th Century
15. Which of these ancient philosopher first mentioned the problem of natural selection in science (a) Democritus (b) Aristotle (c) Empedocles (d) Plato
16. He formulated the theory of eye and mechanism of visual sensation (a) Empedocles (b) Gregor Mendel (c) Joseph Lister (d) None of the above
17. One of these stressed the importance of equality of chromosome distribution to daughter cells (a) Robert Koch (b) Alexander Fleming (c) Lovis Pasteur (d) None of the above
18. The process of testing a scientific theory is called (a) Verificationism (b) Agreed Test (c) Hypothetical deductive (d) All of the above
19. In Karl Popper's method, basic statements are also called (a) Theory verifiers (b) Potential theory falsifiers (c) Truth determinants (d) A and B only
20. The concept of verisimilitude is defined as (a) Nearness to truth (b) The contents of truth and falsity (c) Truth content minus falsity content (d) None of the above
21. The project to expunge metaphysical postulations in science was initiated by (a) David Hume (b) Logical positivist (c) John Locke (d) Wittgenstein
22. Select the odd member (a) Rudolf Carnafi (b) Hans Hahn (c) George Berkeley (d) Ottoneurath

23. The leader of the logical positivists was (a) David Hume (b) Moritz Schlick (c) Dr. Vietnam (d) Augustus Comte
24. One of these is an effect of technology (a) Depletion of natural resources (b) Making people intelligent (c) Making people lazy (d) Encouraging international trade
25. Transfer of technology is actually transfer of (a) Foreign knowledge (b) Equipment and machinery (c) Expertise (d) Construction personnel
26. The origin of HIV is covered in (a) Superstition (b) Religious and mythological foundation (c) Controversy (d) Wind energy
27. A flying aircraft describes which of these energies (a) Chemical energy (b) Kinetic energy (c) Light energy (d) Wind energy
28. Petroleum is formed from (a) marine sedimentary rocks (b) Basement complex rocks (c) Ocean floor (d) Sea rocks of any kind (e) A and B only
29. Bonny light crude oil has low sulphur content in (a) Nigeria (b) Saudi Arabia (c) Iran (d) Pakistan
30. The idea of scientific rascality is linked to (a) David Cameron (b) Albert Einstein (c) Feyerabend (d) Popper
31. Anarchism in science is derived from a Greek word called (a) Anarchus (b) Anarchinus (c) Anarchos (d) Anarchilus
32. An unserious anarchist is called (a) A dangerous anarchist (b) A Dadaist (c) Boko Haram (d) None of the above
33. Revolutions in science is associated with who (a) Charles Darwin (b) Thomas Hobbes (c) Albert Einstein (d) Thomas Kuhn
34. The first atomic bomb was dropped at the cities of (a) Nagasaki (b) Peristroka and Nagasaki (c) Hiroshima and Nagasaki (d) Hiroshima and Nagasaki
35. The hole in the earth roof was first discovered in (a) 1980 (b) 1988 (c) 1987 (d) 1967
36. Light years refers to (a) The period used in calculating the speed of light (b) The distance between the source and the terminus of light (c) The unit of measurement used by cosmologists (d) None of the above
37. The theoretical assumptions are found in which of these compartments (a) Positivism (b) Negativism (c) Positive Heuristics (d) Hard core
38. The idea of three corner fight is linked to (a) Paul Feyerabend (b) Thomas Kuhn (c) Imre Lakatos (d) Karl Popper
39. The book objective knowledge was written by (a) Thomas Kuhn (b) Augustus Comte (c) Karl Popper (d) Lakatos
40. Basic statements also constitute what (a) Scientific method (b) Theory contents (c) Propositions (d) Agreed test
41. The method of trial and error is associated with who (a) Lakatos (b) Lakatos and Karl Popper (c) Kuhn and Lakatos (d) Karl Popper only
42. Pseudo science means (a) Bad science (b) Incorrect science (c) Metaphysical and superstitious science (d) False science
43. The major working equipment for the logical positivist is (a) Criterion of investigation (b) Positivist principle (c) Verifiability criterion (d) Significant propositions
44. The way techniques are selected in science is called (a) Scientific system (b) Scientific method (c) Scientific methodology (d) Procedural research
45. Scientific theories are verified, confirmed or established on the basis of (a) Agreed test (b) Observational evidence (c) Corroboration (d) Conjectures and refutations
46. History seems to falsify the falsificationist principle according to (a) Karl Popper (b) Imre Lakatos (c) Thomas Kuhn (d) All of the above
47. The view that likens the universe to a great machine is called (a) Physical determinism (b) Machine theory (c) Organic theory (d) Metaphysic (e) None of the above
48. The science of cosmology was developed by (a) Ancient Greece (b) Greeks and Persians (c) Plato and Aristotle (d) A and C only
49. The device for measuring the height of pyramids was developed by (a) Egyptians (b) Thales (c) Arabs (d) Indians

50. The first Greek philosopher to carry extensive scientific research was (a) Thales (b) Aristotle (c) Anaximander (d) Plato
51. The number system and calendar was developed by (a) Egyptians (b) Ancient Greece (c) Aztec (d) The Maya
52. Indian scientific efforts were more on (a) Chemistry and Biology (b) Philosophy and Religion (c) Astronomy and physiology (d) All of the above
53. The water wheel was made by (a) The Babylonians (b) The medians (c) The barbarians (d) All of the above
54. The moons around Jupiter was discovered by (a) Galileo (b) Columbus (c) Hobbes (d) Sir Isaac Newton
55. Spermatozoa, Protozoa, and bacteria were discovered by (a) Leuwenhoek (b) Alexander Fleeming (c) Gilbert Ryle (d) Harvey
56. The famous law of conservation of energy is associated with (a) Michael Faraday (b) James P. Jonk (c) Maxwell (d) None of the above
57. The first laboratory of experimental psychology was founded by (a) Gregor Mendel (b) Louis Pasteur (c) Wilhelm Wundt (d) Oliver Twist
58. The famous theory of relativity was published in what year (a) 1805 (b) 1945 (c) 1905 (d) 1705
59. In medicine the use of herbs and incantations was stressed by (a) Romans (b) Greeks (c) Hippocrates (d) The Arabs
60. In mathematics, infinity, and irrational numbers were introduced by (a) Ancient Greek philosophers (b) Modern mathematicians (c) Egyptians (d) Babylonians
61. Environment as a factor of psychological determinism was stressed by (a) Karl Marx (b) Skinner (c) Hobbes (d) Sigmund Freud
62. One of these is a fatalist in determinism in science (a) Thomas Hobbes (b) Socrates (c) Hegel (d) David Hume
63. The apparatus for determining when a proposition is cognitively meaningful is called (a) Scientific apparatus (b) Syntactic techniques (c) Determining device (d) Verifiability criterion
64. Solar energy results from (a) Nuclear fusion of helium into hydrogen within the sun (b) Fusion of hydrogen into helium (c) Fusion of carbon dioxide into helium (d) a and c only
65. Heat transfer occurs in how many basic modes (a) 3 (b) 4 (c) 6 (d) 7
66. Fossil fuels is an example of (a) Renewable energy (b) Non-renewable energy (c) Nuclear fusion (d) None of the above
67. Faeces could cause (a) Air pollution (b) Water pollution (c) a and b (d) Land pollution
68. One of these is a cause of water pollution (a) Agricultural waste (b) Noise from sea machines (c) Urine from sea travelers (d) All of the above
69. The science which deals with foods that a living organism requires is called (a) Food technology (b) biology (c) Nutrition (d) None of the above
70. Polysaccharides is a form of (a) Protein (b) Amino acids (c) Minerals (d) Carbohydrates
71. The book commentariolus was written by (a) Lucas Watzelrode (b) Copernicus (c) Dons Scotus (d) Aristotle
72. The fuel subsidy crises in January 2012 was caused by (a) Hike in prices (b) Economic determinism (c) The presidential pronouncement (d) Fraud
73. Geocentric view of the universe is opposed to (a) Ptolemy view (b) Astronomy (c) Heliocentric view (d) All of the above
74. _____ postulations marked the turning point in Greek science (a) Thales (b) Anaximander (c) Aristotle (d) Plato (e) Albert Einstein
75. The study of positivism was started by (a) Auguste Comete (b) Otto Neurath (c) Abraham Lincoln (d) David Hume
76. The view that no action springs from zero is associated with who (a) Determinism (b) Freewilliam (c) Positivism (d) Rationalism (e) a and d only
77. Fredrich Engels and V. I. Lenin are associated with which type of view (a) Historical determinism (b) Economic determinism (c) Fatalism (d) Psychological determinism

78. The importance of observations and experimentation in learning was recognized by (a) Nicolaus Copernicus (b) Tycho Brahe (c) Francis Bacon (d) Leonardo da Vinci
79. The book the Principia was published by (a) Robert Boyle (b) Adam Smith (c) Lavoisier (d) Sir Isaac Newton
80. Before Charles Darwin, evolutionism was roughly associated with who (a) Natural scientists (b) Ancient Greek philosophers (c) Atomists (d) Darwin's mentor
81. The attempt to criticize but not to prove or make probable is an aspect of whose theory (a) Imre Lakatos (b) Paul Feyerabend (c) Karl Popper (d) Auguste Comte
82. The statement "God is in heavenly place" is considered in philosophy of science as (a) useless statement (b) Non-significant proposition (c) non-scientific impurities (d) A and B only
83. The name of science as knowledge in Russia is called (a) Glasnost Perestroika (b) Nauka (c) A and B (d) None of the above
84. The Incas are said to have developed how many varieties of potatoes (a) 1,000 (b) 52 (c) 32 (d) 42
85. The view that planets revolve round the sun was discovered by who (a) Galileo (b) Copernicus (c) Marcus Garvey (d) Albert Einstein (e) Isaac Newton
86. The above discovery of planets was made in what year (a) 1893 (b) 1485 (c) 1543 (d) 1873
87. The word protein is derived from the Greek word called (a) Proton (b) Protos (c) Pluto (d) Pronon
88. How many classes of amino acids are there (a) 10 (b) 25 (c) 20 (d) 21
89. The best known cure for STDs is (a) Spiritual treatment (b) Medical treatment (c) Herbal treatment (d) Sexual purity
90. The book against method was written by (a) Auguste Comte (b) Paul Feyerabend (c) Karl Popper (d) Thomas Kuhn
91. For Lakatos, the appraising mechanism is (a) A sequence of theories (b) Man-related theories (c) A single theory (d) All of the above
92. The view that lays emphasis on the freedom of man is called (a) Determinism (b) Free willism (c) Positivism (d) Man's logicity
93. John Calvin and Baruch Spinoza were exponents of (a) Ethical determinism (b) Theological determinism (c) Physical determinism (d) Economic determinism
94. Alcoholism is a cause of (a) Psychological determinism (b) Historical determinism (c) Biological determinism (d) Ethical determinism
95. The view that metaphysical postulations should be committed to the flames was said by (a) Logical positivists (b) David Hume (c) John Locke (d) Vienna Philosopher
96. The statement "there are men on the planet Mars" may be called what in philosophy of science (a) A significant proposition (b) A verifiable proposition (c) A non-significant proposition (d) A suggestion
97. The first men to fly in space are (a) Arthur Kornberg and Neil Armstrong (b) Edwin A. S. Jr and Yuri Gagarin (c) Yuri Gagarin and Alan Shepard (d) Jonas Salk and Nagasaki
98. Who applied the scientific method to chemistry (a) William Harvey (b) Kepler (c) Sir Isaac Newton (d) Robert Boyle
99. A problem that plagued mathematicians in the 20th century is called (a) problem of accuracy (b) Problem of axioms (c) problem of completeness (d) problem of incompleteness
100. The normal science stage is also called (a) Pre-paradigm stage (b) Paradigm stage (c) Crisis stage (d) Revolution
101. The structure of scientific revolutions is a book written by (a) Karl Popper (b) Lakatos (c) Thomas Kuhn (d) Feyerabend
102. The International Astronomical Union (IAU) redefined the term planet in what year (a) 1910 (b) 1906 (c) 1946 (d) 2006
103. The body fat in the total body weight for normal young men are about (a) 13% (b) 12% (c) 14% (d) 21%
104. Primary Health Care means (a) Health Care at the primary school (b) First level health care (c) Health care at the grassroots (d) All of the above
105. The view that man evolved from a single celled organism can be referred to as (a) Evolutionary (b) Scientific (c) Historical (d) Philosophical

106. Philosophy is the uncovering of nonsense (a) Correct (b) Untrue (c) Not totally correct (d) All of the above
107. The Latin word, "*scientia*" is the same with the Greek Word ____ (a) Science (b) Episteme (c) Wissenchrft (s) Sophia
108. ____ is a self-evident truth (a) Verisimilitude (b) Law (c) Axiom (d) Scientific truth
109. A Christian-based account of creation terms from a Hebrew-Jewish background and culture while creation from evolution standpoint emanates from ____ (a) Jewish- American background and culture (b) Afro-European background and culture (c) Euro-American background and culture (d) Hebrew-American background and culture
110. The scientific accepted theory concerning origin of man and the universe is ____ (a) Steady-state (b) Organic evolution (c) Special creation (d) Big Bang
111. Every benefit derived from our knowledge is often followed by attendant losses is credited to ____ (a) Van Helmont (b) Thomas Kuhn (c) Karl Popper (d) Robert Koch
112. The distinction between the old and modern science is ____ (a) Intellectual significance attached to inventions (b) Sophistication in instrumentation (c) ICT compliant (d) None of the above
113. Robert Morton opined that scientific research as a social institution is governed by these rules except ____ (a) Universalism (b) Communism (c) Disinterestedness (d) Eat capitalism
114. Global warming as a result of carbon iv oxide emission can be curbed through emission can be curbed through ____ (a) Gas haring (b) Carbon sink (c) Bush burning (d) Deforestation
115. ____ grouped plants according to their locality and distribution (a) Valerius Cordus (b) Otto Brunfels (c) Giovanni Battista della porta (d) Andrea Casalpino
116. Herbalism in the history of biology was prominent in the ____ century (a) 15th (b) 17th (c) 18th (d) None of the above
117. The Paracelsus student who represents the transition from alchemy to modern chemistry was ____ (a) Jan Baptist Van Helmont (b) Jane Battiste Von Helmont (c) Karl Marx (d) Karl Popper
118. Advances in Biology was accredited to the invention of ____ (a) Computer (b) Telescope (c) Microscopes (d) Stethoscope
119. The three chemical elements that constitute Von Hohenheim "Geber" are ____ (a) Iron, Combustible Sulphur and residual salts (b) Volatile mercury, sulphur and residual salts (c) Silver, mercury and iron (d) Mercury, gold and sulphur
120. The two major forms of energy are ____ (a) Chemical and Kinetic (b) Electrical and chemical (c) Potential and kinetic (d) Potential and electrical
121. Positivism as a scientific method was first used by ____ (a) Auguste Comte (b) Henri Saint-Simon (c) Francis Bacon (d) None of the above
122. ____ is attributed to critical rationalism (a) Karl Raymund Popper (b) Thomas Kuhn (c) Paul Feyerabend (d) Bertrand Russell
123. Scientific progress of knowledge as canvassed by Thomas Samuel Kuhn is known as ____ (a) Structure of scientific evolution (b) Paradigm shifts (c) Progressive knowledge (d) All of the above
124. "Farewell to reason" is among the major works of ____ (a) Imre Lakatos (b) Thomas Kuhn (c) Karl Popper (d) Paul Feyerabend
125. The Vienna circle group chaired by Moritz Schlick had the following members (a) Philip Frank, Hans Hahn and Otto Neurath (b) David Hilbert, Felix Klein and Ludwig Boltzmann (c) Otto Neurath, David Hilbert and Philip Frank (d) All of the above
126. The Vienna circle group was associated with the logical positivists who anchored their notion of scientific truth on ____ (a) Falsificationism (b) Verisimilitude (c) Verificationism (d) Objectivism
127. A patient with problem in the absorption is likely to be diagnosed of ____ (a) Rickets (b) Osteoporosis (c) Osteomalacia (d) All of the above
128. Another name for Type II diabetes is ____ (a) Glucose elevation (b) Glucose intolerance (c) Diabetes mellitus (d) All of the above
129. Lactose is a disaccharides composed of two monomers ____ and ____ (a) Glucose and fructose (b) Maltose and galactose (c) Glucose and galactose (d) None of the above
130. The major greenhouse gas causing global warming is ____ (a) CH₄ (b) NO₂ (c) CO₂ (d) O₃