

**ABIA STATE UNIVERSITY, UTURU**  
**DIVISION OF GENERAL STUDIES**  
**SECOND SEMESTER EXAMINATION FOR 2016/2017 SESSION**  
**COURSE: GST 106 HISTORY AND PHILOSOPHY OF SCIENCE**  
**TIME ALLOWED: 1 HOUR INSTRUCTION: ANSWER ALL THE QUESTIONS**

1. Which of these type of smog is known as industrial smog (a) nitric acid (b) grey air (c) ozone (d) hydrocarbons
2. Whatsapp as founded by an American called \_\_\_\_ (a) Robert Lawyer (b) Alistair Lawyer (c) Jan Kaun and Brain Action (d) Hanebrink and Co.
3. \_\_\_\_ founded the facebook (a) Mark Zucherberg (b) Socrates (c) Tony Fadell (d) Lionel Tiger
4. Wikipedia was founded in 2001 by \_\_\_\_ (a) Niklas Zennstrom (b) Julius Sachs (c) Jimmy Wale and Lamy Sanger (d) Thomas Mrogan
5. An example of Brown air type of smog is \_\_\_\_ (a) soot (b) sulphur oxides (c) Nitric acids and Nitric oxides (d) smoke
6. Which of these is non-metal found in the Lithosphere (a) copper (b) zinc (c) sulphur (d) Gold
7. Example of metallic mineral found in the Lithosphere is \_\_\_\_ (a) Diamonds (b) Gems (c) Granite (d) Coal
8. Which of these is formed from decayed vegetation (a) Diesel (b) petrol (c) natural gas (d) Coal
9. Ozone and PAN Oxidants can cause \_\_\_\_ (a) Headaches (b) eye irritations (c) respiratory infections (d) all of the above
10. \_\_\_\_ is the main source of photochemical smog (a) automobile (b) bakeries (c) A and B (d) none of the above

11. PH of acid rain is \_\_\_\_ (a) 5.7 (b) 4.6 (c) 7.0 (d) 8.0
12. Thinning of ozone layer can cause \_\_\_\_ (a) eye cataract (b) skin cancers (c) weak immune systems (d) all of the above
13. \_\_\_\_ is the most serious indoor air pollutant (a) radon (b) carbon monoxide (c) asbestos (d) nitrogen dioxide
14. Forest resources are used in \_\_\_\_ (a) latex (b) gums (c) vegetable oil (d) all of the above
15. Marsh gas refers to \_\_\_\_ (a) carbon dioxide (b) biogas (c) sulphur dioxide (d) none of the above
16. Biogas is made up of \_\_\_\_ percentage of methane (a) 10-20% (b) 50-60% (c) 40-50% (d) 70-30%
17. Purification of crude oil involves \_\_\_\_ (a) removal of sulphur compounds (b) removal of water (c) polymerization (d) none of the above
18. Prolonged exposure to methyl mercury compounds causes \_\_\_\_ (a) kidney failure (b) loss of sight (c) mental retardation in children (d) all of the above
19. Lines of latitude are drawn from \_\_\_\_ (a) North to South (b) East to West (c) South to North (d) North to west
20. Example of sedimentary rock is \_\_\_\_ (a) quartz (b) coal (c) marble (d) slate
21. \_\_\_\_ is an example of disorders due to change in chromosome structure (a) down syndrome (b) turner's syndrome (c) diabetes mellitus (d) all of the above
22. Disadvantage of science and technology include (a) wars (b) accidents (c) manufacture of deadly weapons (d) all of the above
23. Which of these is not an effect of noise pollution on humans (a) hearing impairment (b) sleep disturbances (c) hypertension (d) diabetes

24. \_\_\_\_\_ founded the facebook (a) Mark Zuckerberg (b) Socrates (c) Tony Fadell (d) Lionel Tiger
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35. Improper application of science often starts at home in the following ways except (a) using old frayed wiring with exposed loose ends (b) using incorrectly rated fuses for electrical appliances (c) use of dirty plug pins (d) connecting few appliances to one socket
36. The art of writing was invented in (a) Egypt (b) Babylon (c) Asia (d) Greece
37. The fundamental law of the universe is called \_\_\_\_\_ (a) the third law of the universe (b) Principle of conservation of energy (c) second law of conservation (d) fourth law of thermodynamics
38. In computer science, the two types of software are \_\_\_\_\_ (a) CPU and RAM (b) the systems software and the application software (c) ENIAC and UNIVAC software (d) background and general purpose software
39. \_\_\_\_\_ includes the production of shrimps, mollusks, crabs and plants as well as fish (a) food culture (b) fish culture (c) aqua culture (d) mollusk culture
40. \_\_\_\_\_ and \_\_\_\_\_ are the two forms of drugs of plant origin (a) natural and orthodox (b) ethical and OTC (c) modern and orthodox (d) herbal and crude form
41. One of these is not a warning sign of cancer (a) persistent lump or thickening in a tissue (b) irregular bleeding from any opening (c) any sore that does not heal (d) vernomia amygalina inhibitory effects on cancer cells
42. Food additives are generally used for the following except (a) colouring (b) flavouring (c) texture improvement (d) food poisoning
43. \_\_\_\_\_ are responsible for man's ability to adapt to new environment (a) gene mutations (b) adequate life (c) adaptation (d) tropical factors

44. Diabetes is caused by deficiency of (a) insulin (b) water (c) sugar (d) vitamin
45. The two main parts of evolution are \_\_\_\_ and \_\_\_\_ (a) inorganic and organic (b) man and animals (c) heaven and earth (d) monkeys and chimpanzees
46. The \_\_\_\_ is the only planet in the solar system that is known to harbour life (a) sun (b) moon (c) earth (d) stars
47. The cell theory states that all living things are \_\_\_\_ (a) composed of cells (b) composed of bones (c) composed of blood (d) composed of water
48. \_\_\_\_ is the day-to-day state of the atmosphere and its short term changes (a) climate (b) weather (c) ionosphere (d) stratosphere
49. The instrument used to measure the intensity of an earthquake is called \_\_\_\_ (a) seismograph (b) seismometer (c) seismic scale (d) seismic impulse
50. Examples of fossil includes all except (a) coal (b) petroleum (c) natural gas (d) hydropower
51. Some environmental issues and factors that threaten the existence of life on earth includes all except (a) natural environment (b) flooding (c) draught (d) earthquake
52. \_\_\_\_ is defined as any substance that can produce heat when it is burned in air (oxygen) (a) fuel (b) oil air (c) energy air (d) fossil air
53. \_\_\_\_ and \_\_\_\_ are described as non-biodegradable pollutants. (a) water and oil (b) oil and gas (c) heavy metals and nuclear wastes (d) air and fire
54. \_\_\_\_ radiation can cause skin cancer (a) fire (b) ultraviolet (c) skin torch (d) carcinogens
55. The primary source of wind energy is \_\_\_\_ (a) the sun (b) the moon (c) the stars (d) the wind

56. Household drugs can be grouped as all of the following except (a) stimulants (b) pain killers (c) sedatives (d) enzymes
57. \_\_\_\_\_ is a by product of combustion, especially in automobiles and jet aircraft (a) ozone (b) nitrous oxide (c) water vapour (d) carbon dioxide
58. \_\_\_\_\_ was known to have proposed that the earth rest on water (a) Miletus (b) Thales (c) Plato (d) Newton
59. What is the function of transponder (a) satellite device that measures high frequency signals (b) satellite device that receives signal (c) satellite device that receives, amplifies signal frequency and retransmits it
60. All but one cause flooding (a) failure of drainage network (b) melting of the ice caps (c) decreasing temperature (d) failures of embankments
61. What is drought (a) lack of inadequate moisture in the air and ground surface (b) increasing temperature (c) lack of inadequate water supply (d) none of the above
52. All but one are families of the igneous rock (a) orthoclase (b) plagioclase (c) breccias (d) pyroxene
53. State one texture of the sedimentary rock (a) dark coloured rocks (b) light coloured rock (c) angular pebbles (d) high plasticity index
54. State the name of the 7<sup>th</sup> Planet from the sun (a) mercury (b) mars (c) Neptune (d) earth
55. The hypothesis of spontaneous generation gave rise to two schools of thought, they are: (a) vitalistic and religious view (b) Louis Pasteur and Darwin view (c) mechanistic and vitalistic view (d) all of the above
6. The Chemical life of a cell is called (a) nucleolus (b) protoplasm (c) centrioles (d) none of the above
7. The revolution of the earth causes \_\_\_\_ (a) deflection of wind and ocean currents (b) daily rising and falling of tides (c) varying length of the day and night (d) midnight sun
8. Positive heat budget implies \_\_\_\_ (a) incoming solar radiation equal to outgoing terrestrial radiation (b) incoming solar radiation is greater than the outgoing terrestrial radiation (c) incoming solar radiation is less than the outgoing terrestrial radiation
9. All but one are metamorphic rocks (a) slate (b) phyllite (c) siltstone (d) brachiopods
0. State one importance of the ozone shield (a) increasing the impact of the ultra-violet rays (b) creates perforations for increasing rainfall for agriculture (c) reduces the impact of the ultra violet rays on the earth surface (d) increasing the body of the oceans.

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**ANS: SECOND SEMESTER GST 106 – HISTORY & PHILOSOPHY OF SCIENCE**

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| 1. B pg. 114  | 20. B pg. 92  | 39. C pg. 350 | 58. B pg. 11                   |
| 2. C          | 21. D pg. 55  | 40. A pg. 392 | 59. C pg. 324                  |
| 3. A          | 22. D         | 41. D pg. 412 | 60. D                          |
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| 6. C          | 25. C pg. 115 | 44. A pg.     | 63. C pg. 92                   |
| 7. A pg. 93   | 26. A pg. 115 | 45. A pg. 33  | 64. Uranus pg. 28<br>(Neptune) |
| 8. B pg. 94   | 27. A         | 46. C pg. 31  | 65. C pg. 36                   |
| 9. D pg. 115  | 28. B pg. 92  | 47. A pg. 46  | 66. B pg. 47                   |
| 10. C pg. 115 | 29. D pg. 95  | 48. B pg. 70  | 67. C                          |
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| 15. C         | 34. D pg. 119 | 53. A         |                                |
| 16. B         | 35. B         | 54. B pg 116  |                                |
| 17. A         | 36. B pg. 4   | 55. -         |                                |
| 18. D pg. 119 | 37. B         | 56. D         |                                |
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**ABIA STATE UNIVERSITY, UTURU**  
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**INSTRUCTION: ANSWER ALL THE QUESTIONS.**

1. Science can be defined as \_\_\_\_ a. a systematized body of knowledge derived from observation and verification of facts    b. a branch of knowledge especially that which systematizes facts, principles and methods    c. skills and techniques    d. all of the above.
2. The major civilization involved \_\_\_\_ arithmetic and geometric content, mummification, splendid tombs, temples and pyramid was \_\_\_\_ a. Greek    b. Egyptian    c. English    d. Roman
3. Under the Babylonian civilization, Hammurabi divided the \_\_\_\_ and \_\_\_\_ a. the day into 24 hours, circle into 360°    b. The chord, tangent    c. The height, triangle    d. Semi-circle and year
4. \_\_\_\_ Civilization predicted lunar eclipses with certainty    a. Babylonia    b. Egyptian    c. Roman    d. African
5. \_\_\_\_ applied trigonometry in astronomy to estimate the size of the earth's diameter    a. Hipparchus    b. Hammurabi    c. Socrates    d. Plato
6. The size of the earth's diameter was estimated as \_\_\_\_ a. 1,100    b. 1245    c. 1345    d. 1445
7. Some of these are the achievements of Hammurabi except    a. Provision of the equinoxes    b. estimation of the lunar    c. estimation of the sizes and distances of the sun and moon    d. building of pyramids
8. The Greeks were good in \_\_\_\_ a. industry    b. Agriculture    c. sculptures    d. Construction
9. Thales was known to come from \_\_\_\_ a. Africa    b. Athens    c. Rome    d. Miletus
10. \_\_\_\_ developed the technique for calculating the distance of a ship from observation taken at 2 points on land    a. Anaximander    b. Thales    c. Copernicus    d. Archimedes
11. \_\_\_\_ developed the art of alphabetic writing    a. Greek    b. Egyptians    c. English    d. Babylonians
12. \_\_\_\_ is a fusion of craft and area of study of science    a. Science    b. Technology    c. Agriculture    d. Physics
13. The stone age was around \_\_\_\_ a. 2500 BC    b. 3000 BC    c. 6000 BC    d. 10000 BC
14. \_\_\_\_ was discovered during the bronze age    a. Metal ores and fire    b. clay    c. wood    d. coal
15. \_\_\_\_ was the period of the middle age    a. 500-1500 AD    b. 100-200 AD    c. 50-100 AD    d. 10-90 AD
16. \_\_\_\_ were discovered in the Middle age except    a. Military tech    b. Clock    c. Printing    d. Aeroplane



17. The industrial revolution was characterized by \_\_\_\_  
a. factory systems      b. Wars      c. Crime  
d. Mathematics
18. \_\_\_\_ discovered electricity    a. John Wesley    b. Thomas Edison      c. Watson      d. Archimedes
19. Some of the following were discovered in the 19<sup>th</sup> and 20<sup>th</sup> century except  
Wireless radio      c. automobiles    d. Transgenic organisms      a. Telephone      b.
20. These are the resources of the hydrosphere except    a. sodium chloride      b. fish    c. water  
d. sugar
21. One of these is the resources of the lithosphere      a. metals and non metals    b. fossil fuel      c. rocks  
d. all of the above
22. The following are the resources of the biosphere except  
resources    d. wild life      a. soil    b. ozone layer      c. forest
23. Chemical energy can be obtained from      a. Petrol      b. sun    c. wind    d. flowing water
24. Nuclear energy can be produced from      a. Biogas      b. ethanol      c. Uranium      d. Petrol
25. Mechanical energy can be obtained from \_\_\_\_      a. wind    b. sun    c. coal    d. ethanol
26. Radiant energy is produced from    a. sun    b. coal    c. biogas      d. uranium
27. The unit of measuring of power is    a. volts    b. watts    c. kilogramme    d. millimetres
28. Electric current can be explained as      a. the amount of electricity flowing through the cable  
b. pressure of electricity    c. alternate current of power      d. mechanical energy
29. The following are the types of air pollutants we have except    a. sulphur oxides    b. nitrogen oxides  
c. carbon oxides    d. neon
30. Write this in Roman figure 165      a. CLXIV      b. CXLVI      c. CXLV      d. CLXV
31. The chemical life of cell is called \_\_\_\_    a. cell membrane      b. nucleus      c. cytoplasm      d.  
protoplasm
32. The process of gradual and continuous orderly changes that give rise to variety of organism is called \_\_\_\_  
a. succession      b. creation      c. mutation      d. evolution
33. Which of the factors constitute obstacle to global food security      a. rapid population growth  
b. low investment in agriculture    c. inadequate processing and storage facilities      d. all of the  
above
34. Forest are lost in a number of ways except \_\_\_\_      a. forest fire      b. high way construction    c.  
lumbering    d. afforestation
35. One of these does not belong to oil producing state in Nigeria      a. Kaduna      b. Abia    c. Delta  
d. Rivers
36. When natural gas occurs together with crude oil the gas is described as \_\_\_\_      a. adulterated gas  
b. liquefied gas    c. associated gas    d. diesel gas

37. The first step in processing the crude oil for products is to separate the hydrocarbons by a process called \_\_\_.  
a. Fractional distillation    b. internal combustion    c. chemical conversion    d. evaporation
38. An electronic machine that processes and stores information according to a given program is called \_\_\_.  
a. radio    b. television    c. computer    d. telephone
39. \_\_\_ is a group of technologies that is distinguished by the use of living cells and their molecules to make products that have a wide range of uses that improve human lives.  
a. molecular technology    b. living technology    c. biotechnology    d. human technology
40. The main class of food required by the body is \_\_\_.  
a. Carbohydrates    b. vitamins  
c. proteins    d. all of the above
41. One of these is not the cause of genetic defects and disorder.  
a. sleeping    b. nutrition  
c. infection    d. radiation
42. The following are among the treatment of genetic diseases except \_\_\_.  
a. X-rays    b. diet  
c. surgical correction    d. chemotherapy
43. \_\_\_ determine the characteristics of cells as they are passed from generation to generation.  
a. cytoplasm    b. enzymes    c. mitochondria    d. genes
44. \_\_\_ is a natural satellite of the planets moving round the planet under the influence of gravity?  
a. the sun    b. the moon    c. the star    d. the earth
45. The smallest planet in the solar system is called \_\_\_.  
a. Jupiter    b. the earth    c. the sun  
d. Pluto
46. The angular distance of a point on the earth's surface measured north or south of the equator is called \_\_\_.  
a. longitude    b. equator    c. latitude    d. arctic circle
47. The boiling point of water is \_\_\_.  
a.  $100^{\circ}$     b.  $50^{\circ}$     c.  $10^{\circ}$     d.  $0^{\circ}$
48. \_\_\_ is the day to day state of the atmosphere.  
a. climate    b. temperature    c. weather  
d. sunshine
49. The wind that is responsible for the harmattan we experience during the month of November to March in Nigeria is known as \_\_\_.  
a. south east wind    b. north east wind    c. dry season wind  
d. rainy season wind
50. The following are major parts of philosophy except \_\_\_.  
a. metaphysics    b. axiology    c. epistemology  
d. cosmology
51. Most household appliances are operated between \_\_\_ and \_\_\_.  
a. 220-240    b. 250-300  
c. 200-220    d. 150-200
52. The following are common causes of household hazards except \_\_\_.  
a. use of metal plates in microwave cookers    b. rinsing plates with little or no water    c. application of hair dye    d. bathing with soft water
53. Data can be sent to the computer with all the following except \_\_\_.  
a. barcode readers    b. modem    c. printer    d. keyboard

54. When a lot of computers in a big town are interconnected by telephone wires, it is called \_\_\_\_ a. WAN (wide Area Network) b. LAN (Local Area Network) c. MAN (Metropolitan Area Network) d. Internet
55. The major raw material for the production of paper is \_\_\_\_ a. pulp b. gum c. colouring d. plastic
56. Forest can be lost through the following ways except \_\_\_\_ a. over-cultivation b. cattle ranching c. production of paper d. planting of trees
57. The following are structures for aquaculture except a. cage b. fence c. ponds d. burrow
58. The following are aquatic foods except a. crabs b. shrimps c. molluscs d. waterleaf
59. The part of the plant used for herbal medicine include \_\_\_\_ a. roots b. stem c. all of the above d. none of the above
60. \_\_\_\_ is a disadvantage of herbal medicine a. natural and devoid side effects b. effectiveness c. no specified dosage d. complete elimination of disease
61. Inhalation by non-smokers of tobacco smoke released into the atmosphere by smokers is known as a. secondary smoking b. active smoking c. passive smoking d. inactive smoking
62. The active ingredient in alcohol beverages, directly or indirectly responsible for the peculiar feeling of intoxication is known as \_\_\_\_ a. ethanol b. alkane c. ethane d. methane
63. The migration of tumour cells to tissue sites from the primary site of tumour formation is called \_\_\_\_ a. cancer b. metastasis c. tumours d. lump
64. The following disease has no medical cure except \_\_\_\_ a. HIV b. AIDS c. Cancer d. Stroke.
65. \_\_\_\_ is not a Green Home Gas \_\_\_\_ a. hydrogen oxide b. chlorofluorocarbon c. methane d. nitrous oxide
66. Which of the following is not a nucleotide base a. Guinin b. Adenin c. Thymine d. Cytosine
67. Penicillin antibiotic was discovered by \_\_\_\_ a. Zacharias Janssen b. Demos Shakarian c. Robert Hook d. Alexander Fleming
68. \_\_\_\_ was reputed to be intellectually the most important mathematician that ever lived a. Johann Joachim b. George Ernest c. Pythagoras d. Chika Obi
69. \_\_\_\_ is anything that occupies space and has mass and inertia a. matter b. time c. speed d. velocity
70. Which one of these is not a method of waste disposal a. open dumps b. sanitary landfills c. pollutant d. incineration

**ANSWERS TO GST 106 EXAM – HISTORY AND PHILOSOPHY OF SCIENCE  
2017/2018 SESSION**

**SECTION A**

- |                     |                            |
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| 1. D pg. 1          | 36. A                      |
| 2. B pg. 3          | 37. A pg. 100              |
| 3. A pg. 3          | 38. C pg. 300              |
| 4. A pg. 3          | 39. C pg. 212              |
| 5. A pg. 3          | 40. D                      |
| 6. B pg. 3          | 41. A pg. 58               |
| 7. D pg. 3, 4       | 42. A pg. 59               |
| 8. B pg. 4          | 43. D pg. 49               |
| 9. D pg. 4          | 44. B pg. 64               |
| 10. B pg. 4         | 45. D pg. 27               |
| 11. A pg. 4         | 46. C pg. 64               |
| 12. B pg. 4         | 47. A pg. 71               |
| 13. A pg. 5         | 48. C pg. 70               |
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| 15. A pg. 6         | 50. D pg. 14, 15           |
| 16. D pg. 6         | 51. A pg. 232              |
| 17. A pg. 6         | 52. D pg. 237, 245         |
| 18. B pg. 6         | 53. C pg. 278              |
| 19. D pg. 6         | 54. C pg. 320              |
| 20. D pg. 90        | 55. A pg. 347              |
| 21. D pg. 91 – 93   | 56. D pg. 342              |
| 22. B pg. 95        | 57. D pg. 350              |
| 23. A pg. 99        | 58. D pg. 350              |
| 24. C pg. 105       | 59. C                      |
| 25. A pg. 104       | 60. C pg. 389              |
| 26. A pg. 106       | 61. C pg. 431              |
| 27. B pg. 104       | 62. A pg. 432              |
| 28. A pg. 104       | 63. B pg. 406              |
| 29. D pg. 111 – 112 | 64. D pg. 414              |
| 30. A pg. 160       | 65. C pg. 250              |
| 31. D pg. 47        | 66. A (Spelling - Guanine) |
| 32. D pg. 33, 34    | 67. D                      |
| 33. D pg. 367       | 68. C                      |
| 34. D pg. 341       | 69. A                      |
| 35. A               | 70. C                      |

Time 1hr

*Answer all questions in OMR sheet provided. Be sure to shade your name, Matriculation number and Department properly with pencil on the sheet provided.*

Instruction: Students carrying over this course should be seated separately.

- 1) A catastrophic event occurring near the end of life of a star in which the star collapses and explodes is known as a. Volcano b. supernova c. Eclipse d. Earthquake
- 2) The process of gradual and continuous orderly changes that gives rise to variety organisms is called \_\_\_\_ a. succession b. creation c. mutation d. evolution
- 3) The theory of evolution by natural selection was propounded by (a) Baptist Lamarck (b) Carolus Linnaeus (c) Charles Darwin (d) Gregor Mendel
- 4) \_\_\_\_ is the basic functional and structural unit of all living things (a) cell (b) tissue (c) Gene (d) Atom
- 5) The process of cell division that gives rise to growth is called (a) Meiosis (b) Mitosis (c) Mutation (d) Metabolism

- 6) Which of these is a genetic disease common in people that live in mosquito prone areas such as Nigeria (a) Down's syndrome (b) Galactosemia (c) sickle cell anaemia (d) phenylketonuria
- 7) Line joining places of equal pressure is known as (a) Isotherm (b) Isohyet (c) Isobars (d) Isopre
- 8) \_\_\_\_\_ is a collection of program or programs used to direct the computer in solving problems (a) hardware (b) software (c) keyboard (d) CPU
- 9) Distance in space is measure in: (a) Kilometers (b) Light years (c) Miles (d) Feet
- 10) The universe is believed to have come into existence after an event termed (a) Eclipse (b) Reation (c) Big Bang (d) explosion
- 11) The intellectual life of the medieval period suffered a tremendous calamity due to (a) the fall of Rome (b) the death of Albert Magnus (c) The absence of Matera Medica (d) The failure of the Babylonian Abacus
- 12) What is data \_\_\_\_\_ (a) outcome or information (b) raw material yet to be processed (c) numbers resulting from measurements (d) none of the above
- 13) A systematized body of knowledge derived from observation and verification of facts is known as (a) Philosophy (b) Science (c) Law (d) Theory
- 14) From the big bang theory, the universe came into existence in \_\_\_\_ (a) 15 million years ago (b) 1920 (c) 15 billion years ago (d) at some unidentifiable time
- 15) Some causes of oil spillage include the following except \_\_\_\_ (a) blow out at oil wells (b) pipelines vandalism (c) corrosion and leakages from pipelines (d) excessive rainfall

- 16) Chemistry as a course of study that affects only (a) the physical form of life (b) all forms of life (c) the mixing/reaction of chemicals in the laboratory (d) petroleum industry
- 17) Methods of science consist of processes involving (a) experimentation, observation and inference (b) observation, experimentation and inference (c) experimentation, inference and observation (d) observation, inference and experimentation
- 18) One of the following is not part of the solar system (a) sun (b) universe (c) earth (d) Pluto
- 19) The following contribute to the global warming except \_\_\_\_ (a) ozone layer Depletion (b) science and technology (c) radioactive fallouts and chemicals in the atmosphere (d) the sun
- 20) The History and Philosophy of science is a fascinating subject because (a) it begins its discourse with the definition of science (b) it is better appreciated by students (c) one does not only learn about the development of science but also the men who were responsible for its development (d) it systematizes facts, principles and methods
- 21) The biosphere is defined as \_\_ (a) the biological layer of the earth (b) the outermost layer of the earth (c) the part of the earth crust surrounded by water (d) the core of the earth.
- 22) The terrestrial planets also known as inner planets include all except (a) Mercury (b) Saturn (c) Venus (d) Mars
- 23) In computer \_\_\_\_\_ is an optional device to the keyboard (a) printer (b) CPU (c) mouse (d) screen
- 24) The various methods of treating surface water to remove pollutants include the following except (a) dredging (b) disposal of water into water

- channels (c) physical isolation of sediments (d) chemical treatment of sediments
- 25) Ebola virus disease first appeared in (a) 1975 (b) 1976 (c) 1977 (d) 1978
- 26) \_\_\_\_ isolated tobacco-mosaic virus. (a) August Weismann (b) Julius Sachs (c) Thomas Hunt Morgan (d) W.M. Stanley
- 27) Who discovered the causative agents for tuberculosis and cholera (a) Robert Koch (b) Schutz (c) Kitasato and Yassin (d) Klebs and Loeffler
- 28) The DNA molecule is made of \_\_\_\_ (a) a sugar, 4 nitrogen bases and 2 phosphates (b) 2 sugar, 4 nitrogenous bases and 1 phosphate (c) 1 sugar, 4 nitrogenous bases and 1 phosphate (d) 1 sugar, 4 nitrogenous bases and 1 phosphate
- 29) Which of these is not true about protoplasm? (a) it is the chemical life of the cell (b) consist of cytoplasm and the nucleus (c) area of the protoplasm outside the nucleus is called the cell membrane. (d) contains proteins, fats and carbohydrates
- 30) Sandy beaches, coral reef wildfire are examples of \_\_\_\_ (a) non-renewable resources (b) renewable resources (c) reusable resources (d) relatively renewable
- 31) One who applies the result of science to solve his daily social, economic, engineering and environmental problems is referred to as (a) technologist (b) socialist (c) physician (d) geographer
- 32) A systematic study of nature involving knowledge organized and formulated to discover general forms and truths is (a) philosophy (b) science (c) logic (d) history and philosophy
- 33) One of these is not true about biotechnology (a) it can be used to have started 20,000 years ago (b) involves transfer of genes (c) makes possible



- 43) \_\_\_described the theory of natural selection and the origin of species (a) Louis Pasteur (b) Charles Darwin (c) Alexander Fleming (d) Gregor Mendel
- 44) The introduction of contaminants into natural environment that causes adverse change is known as (a) pollution (b) climate change (c) natural phenomenon (d) contamination
- 45) Inhalation by non smokers of tobacco smoke released into the atmosphere by smokers is called (a) partial smoking (b) distance smoking (c) active smoking (d) passive smoking
- 46) The individual suffering from alcoholism is called \_\_\_(a) a drunk (b) an alcoholic (c) drunkard (d) a drug addiction
- 47) Good health is an individual's priceless asset and it is a function of the (a) Good hygiene (b) individual concerned (c) environment (d) health
- 48) Tumors are described as – if the perforating neoplastic cell invades adjacent tissues (a) malignant (b) benign (c) unbenign (d) primary
- 49) \_\_\_is a condition characterized by cholesterol deposits in various tissues of the body, including the skin (a) gall bladder stones (b) xanthomatosis (c) cardiovascular accident (d) arteriosclerotic plaques
- 50) One of the following is not an advantage of herbal treatment (a) natural and devoid of side effect (b) disease prevention (c) complements orthodox medicine (d) very expensive
- 51) Early human population was low and suffered setbacks as occasioned by factors such as \_\_\_except (a) famine (b) natural disaster (c) improved medicine facilities (d) climatic fluctuation
- 52) Which of the factors constitute an obstacle to global food security (a) rapid population growth (b) low investment in agriculture (c) inadequate processing and storage facilities (d) all of the above

- 53) An industrial process of rearing aquatic organism in properly partitioned aquatic is referred to as \_\_\_\_ (a) Agriculture (b) Aquaculture (c) industrial agriculture (d) Animal husbandry
- 54) Forests are lost in a number of ways except (a) forest fires (b) high way construction (c) indiscriminate felling of trees (d) afforestation
- 55) What is the greatest threat facing humanity today (a) ebola (b) global warming (c) natural disasters (d) anthropogenic activities
- 56) The science of astronomy was revolutionized by (a) (a) Robert Hooke (b) Leeuwenhoek (c) Galileo (d) Theodore Shawn
- 57) \_\_\_\_ is a byproduct of combustion in automobiles and air crafts (a)  $O_2$  (b)  $O_3$  (c)  $N_2O$
- 58) One of these is not true about cleft lip (a) cannot be corrected by surgery (b) there is always gap (c) can occur at the roof of the mouth (d) it is also known as a harelip
- 59) All these drugs are associated with birth defect except (a) Lysergic acid diethylamide (b) thalidomide (c) laratidine (d) cocaine
- 60) Which among these is not a birth defect? (a) Erythroblastosis fetalis (b) Turners syndrome (c) Hydrocephaly (d) cleft palate
- 61) All is true about sickle cell anaemia except (a) is common in Nigeria (b) is a heritable disorder (c) Haemoglobin S (HBS) is present (d) Haemoglobin A (HBA) is present
- 62) One of these is true about Diabetes Mellitus (a) absence of polydipsia (b) islets langerhans is usually affected (c) death is always imminent if not managed properly (d) there is permanent cure
- 63) The following are true about mitotic division except (a) the number of chromosome usually duplicates (b) four gametes are formed in the male

(c) two gametes are formed in the female (d) two kinds of gametes are produced

- 64) All are present in a typical animal cell except (a) large vacuole (b) golgi bodies (c) centrioles (d) cytoplasm
- 65) Communication network linking computers worldwide which serves as the nervous system of the world wide web is called (a) local area network (b) wide area network (c) internet (d) system process
- 66) The chemical life of a cell is called (a) cell membrane (b) nucleus (c) cytoplasm (d) protoplasm
- 67) All but one is causes of genetic disorder and defects (a) nutrition (b) erythroblastosis fetalis (c) infection (d) age often mother
- 68) The natural satellite of the planet moving round it under the influence of the planet's gravity is called (a) the moon (b) the sun (c) the solar system (d) the mercury
- 69) What is an isotherm (a) line joining places of equal rainfall (d) line joining places of equal temperature
- 70) What is a greenhouse effect? (a) house for nurturing plants (b) the warming of the seas (c) the warming of the atmosphere (d) indoor vegetable garden
- 71) All but one are the early symptoms of Ebola viral disease (a) rash (b) muscle pain (c) sore throat (d) sudden onset of fever
- 72) Convert 30°C to Fahrenheit (a) 84°F (c) 85°F (c) 86°F (d) 87°F
- 73) The outer layer of the earth crust is called (a) Biosphere (b) hydrosphere (c) lithosphere (d) atmosphere
- 74) All are true about fossil fuels except \_\_\_\_ (a) they are product of organic decay in the presence of oxygen (b) they are found in sedimentary rocks

- (c) coal and natural gas are examples of fossil fuels (d) they are hydrocarbons
- 75) The environment can be defined as (a) the totality of the conditions and influences of the place where we live (b) a recreational playground (c) the greater portion of the lithosphere (d) the home of the on earth
- 76) The field of science that studies the stars, planets, moons and other heavenly bodies is called (a) physics (b) astronomy (c) cosmology (d) metaphysics
- 77) Gas flaring's undesirable effects include the following except (a) high noise level's resulting from uncontrolled gas flow in the flare (b) heat radiation and thermal conduction in the environment (c) contribution of toxic gases and particulate materials such cause acid rain (d) no obvious side effect
- 78) The first man credited with observe bacteria and protozoans and who described microorganisms then as "animalcules" was (a) Louis Pasteur (b) Aristhòle (c) Robert Hooke (d) Anthon von Leeuwenhoek
- 79) The Greek mathematician who wrote the first book on geometry was (a) Socrates (b) Euclid (c) Ptolemy (d) Eratosthenes
- 80) Ebola viral disease is associated with the following symptoms except (a) fever (b) bleeding (c) vomiting (d) coughing
- 81) All but one are impurities found in kerosene (a) sulphur (b) nitrogen (c) volatile hydrocarbon (d) bitumen
- 82) The first true computer was designed by an English man known as (a) John von Neumann (b) Lady ADA' Lovelace (c) Abacus (d) Charles Babbage
- 83) The \_\_\_\_ is a communication network linking computers worldwide and it forms the nervous system of the World Wide Web (WWW) (a) computer (b) internet (c) operating system (d) central processing unit

- 84) A gradual but persistent rise in the atmosphere temperature of the earth is known as (a) global warming (b) climate change (c) greenhouse gasses (d) paleoclimatology
- 85) Which of these is not a good combination of the greenhouse gasses (a) carbon dioxide and methane (b) chlorofluorocarbons and water vapour (c) ozone and nitrous oxide (d) water vapour and oxygen
- 86) Force was first defined as a prime cause of change by (a) Sir Isaac Newton (b) Galileo Galileo (c) Johannes Kepler (d) Nicolaus Copernicus
- 87) As far back as 560 BC, \_\_\_\_\_ propounded the concept of biological evolution (a) Anaximander (b) Heraclitus (c) Anaximenes (d) Thales of Miletus
- 88) All but one is the group of eukaryotes known as algae (a) yellow algae (b) red algae (c) chlorella (d) green algae
- 89) The absorption process of alcohol is inhibited by \_\_\_\_\_ (a) excess alcoholic intake (b) presence of fatty food in the gut (c) presence of excess protein in the duodenum (d) none of the above
- 90) All but one are products of aquaculture (a) shrimps (b) molluscs (c) fish (d) algae
- 91) The main class of food required by the body is (a) carbohydrates (b) vitamins (c) proteins (d) all of the above
- 92) The theory of spontaneous regeneration was disproved in 1668 by (a) Louis Pasteur (b) vitamins (c) proteins (d) all of the above
- 93) The theory of spontaneous regeneration was disproved in 1668 by (a) Louis Pasteur (b) John Needham (c) Charles Sedillot (d) Francesco Redi
- 94) All but one is not a codon (a) ATA (b) TTB (c) CCG (d) TAT
- 95) The insulin recently used to treat diabetes was extracted from (a) dog pancreas (b) goat pancreas (c) pig pancreas (d) cat pancreas

- 96) Anything that has utility value and is used by man is referred to as (a) Natural resource (b) Resource (c) Anthropogenic resource (d) Human resource
- 97) \_\_\_\_\_ and \_\_\_\_\_ play important role in the transportation of pollutants locally and regionally (a) weather and climate (b) winds and climatology (c) winds and weather (c) weather and meteorology
- 98) \_\_\_\_\_ is a group of technologies that are distinguished by the use of living cells and their molecules to make products that have a wide range of uses that improves human lives (a) molecular technology (b) living technology (c) biotechnology (d) human technology
- 99) Among these, one is considered to be the founder of microbiology (a) Spallanzani Lazaro (b) John Needham (c) Robert Koch (d) Louis Pasteur
- 100) The Ebola virus specie causing the 2014 West African outbreak is called \_\_\_\_\_ (a) Sudan Ebola (b) Reston Ebola (c) Zaire Ebola (d) Bundibugyo Ebola

**GST 106 - HISTORY & PHILOSOPHY OF SCIENCE 2013/2014 SESSION**

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|---------------|---------------|---------------|---------------|
| 1. B Pg. 25   | 26. D Pg. 171 | 51. C         | 76. B         |
| 2. D Pg. 34   | 27. A Pg. 198 | 52. D         | 77. D         |
| 3. C Pg. 40   | 28. D Pg. 214 | 53. B Pg. 350 | 78. D Pg. 170 |
| 4. A Pg. 46   | 29. C Pg. 47  | 54. D         | 79. B         |
| 5. B Pg. 49   | 30. B Pg. 88  | 55. B         | 80. B         |
| 6. C Pg. 53   | 31. A Pg. 5   | 56. C         | 81. D         |
| 7. C Pg. 77   | 32. B Pg. 1   | 57. C Pg. 112 | 82. D         |
| 8. B Pg. 315  | 33. A Pg. 212 | 58. A Pg. 57  | 83. D         |
| 9. B Pg. 23   | 34. C Pg. 93  | 59. C         | 84. B Pg. 292 |
| 10. C Pg. 22  | 35. C Pg. 65  | 60. B Pg. 57  | 85. A         |
| 11. A Pg. 75  | 36. —         | 61. D         | 86. B         |
| 12. B Pg. 300 | 37. A Pg. 75  | 62. A         | 87. A         |
| 13. B Pg. 1   | 38. A         | 63. B Pg. 49  | 88. A         |
| 14. C Pg. 22  | 39. D Pg. 12  | 64. A Pg. 47  | 89. C Pg. 200 |
| 15. D         | 40. A         | 65. C Pg. 328 | 90. B         |
| 16. B Pg. 161 | 41. D         | 66. D Pg. 47  | 91. D Pg. 350 |
| 17. A Pg. 1   | 42. C Pg. 13  | 67. B Pg. 58  | 92. D         |
| 18. B Pg. 26  | 43. B Pg. 171 | 68. A Pg. 27  | 93. D         |
| 19. D         | 44. A Pg. 109 | 69. D Pg. 71  | 94. B         |
| 20. C Pg. 1   | 45. D         | 70. C         | 95. C         |
| 21. D         | 46. B         | 71. A         | 96. B         |
| 22. B         | 47. A         | 72. D Pg. 71  | 97. C         |
| 23. C Pg. 307 | 48. A         | 73. C Pg. 30  | 98. C Pg. 212 |
| 24. B         | 49. B         | 74. A Pg. 94  | 99. D Pg. 171 |
| 25. B         | 50. D         | 75. A         | 100. C        |

**ABIA STATE UNIVERSITY, UTURU**  
**DIVISION OF GENERAL STUDIES**  
**SECOND SEMESTER EXAMINATION FOR 2012/2013 SESSION**  
**COURSE: GST 106 HISTORY AND PHILOSOPHY OF SCIENCE: 1 HOUR**  
**INSTRUCTION: ANSWER ALL THE QUESTIONS**

1. Science can be defined as (a) Systemized body of knowledge derived from observation and verification (b) Arts and history (c) Philosophy and aesthetics (d) Observation of experiment
2. Science helps to (a) destroy property (b) fight wars (c) produce weapons of mass destruction (d) know and do things
3. All but one was the contribution of Hipparchus (a) Precision for the equinoxes (b) Estimation of the size and distance of the sun and the moon (c) the art of alphabetic writing (d) Devised the geometric epicycles and eccentrics
4. Axiology is the branch of philosophy that \_\_\_\_\_ (a) concerns the study of beauty (b) concerns the study of nature, method, origin, validity and the extent of human knowledge (c) concerned with the study of laws and values (d) concerned with the meaning of origin, structure and the composition of the universe
5. One of these is not an aspect of philosophy (a) Axiology (b) Metaphysics (c) Epistemology (d) Criminology
6. One of these is not a Jovian planet (a) Jupiter (b) Saturn (c) Uranus (d) Venus
7. \_\_\_\_\_ is an apostle of deductive reasoning (a) Thales (b) Plato (c) Parmenides (d) Aristotle
8. \_\_\_\_\_ propounded the theory of change (a) Isaac Watts (b) Socrates (c) Hippocrates (d) Heraclitus
9. \_\_\_\_\_ used mathematical equality signs to express some abstract philosophical problems (a) Plato (b) Hipparchus (c) Socrates (d) Heraclitus
10. Pollution can be defined as (a) Generation of waste (b) Waste disposal (c) Sewage treatment (d) Introduction of foreign harmful materials into the environment
11. Anything that has utility value which can be used by man is known as (a) Resource (b) Deposit (c) Material (d) Utility
12. Primary air pollutants include the following except (a) Carbon dioxide (b) Nitrogen oxides (c) Sulphur dioxide (d) Fertilizers
13. What is the Milky Way? (a) A Galaxy (b) an assembly of stars (c) Sun's galaxy (d) all of the above
14. Of the domains of the environment, which is referred to as the home of man? (a) Earth (b) Biosphere (c) Lithosphere (d) Atmosphere



15. State 2 components of cell theory (a) All living things are made of cells and cells are mutations (b) All Pre-existing cells are source of cells and living things are made of cells (c) Cell growth is continuous and non-living things has static cells (d) Cell growth in living things depends on age and they rarely die.
16. What is responsible for man's adaptation to new environment (a) Gene mutation (b) culture (c) Geographical location (d) Latitudinal location
17. Earth revolution causes? (a) Rising and falling tides (b) Deflection of the wind and ocean currents (c) seasons (d) Differences of one hour between two meridians
18. Convert  $30^{\circ}\text{C}$  to Fahrenheit (a)  $86^{\circ}\text{F}$  (b)  $87^{\circ}\text{F}$  (c)  $88^{\circ}\text{F}$  (d)  $85^{\circ}\text{F}$
19. Chemistry as a course of study affects only? (a) the physical form of life (b) All forms of life (c) the mixing/reaction of chemicals in the laboratory (d) Petroleum industry
20. Who invented aero planes and year? (a) Markfinely 1800 (b) Wilbur and Orville Wright 1900 (c) Maxwell Carridge 1605 (d) John Kennedy 1708
21. \_\_\_\_\_ is an auxillary device to the keyboard (a) Mouse (b) Printer (c) Scanner (d) UPS
22. What produces fossil fuels? (a) Heated rocks (b) A collision of two or more galactic particles (c) Product of organic decay in the absence of oxygen (d) Excessive solar radiation
23. All but one are the consequences of oil prospection in the Niger Delta region of Nigeria (a) Lowering in life expectancy (b) fall in fertility rate due to hydrocarbons and other noxious gases (c) higher incidence in child mortality (d) High birth rate
24. What is a file? (a) anything in computer (b) any work produced using computer application (c) any work saved in the computer (d) all of the above
25. What is the contribution of Lady Ada Lovelace in computer development? (a) Designed the analytical engine (b) configured the first robotic engine (c) founder of the computer hardware (d) founder of the computer software
26. State the two main kinds of philosophy (a) separation and precise (b) Dispersion and scientific (c) specific and theoretical (d) Crystallization
27. The organic matter load of a water body is described as (a) Total solids (b) Total salts (c) Biochemical Oxygen demand (d) Carbon extraction
28. Empiricism is \_\_\_\_\_ (a) Belief in knowledge gained through thinking (b) Belief in knowledge gained through logical reasoning (c) Belief in knowledge gained through experience in the immediate environment (d) belief in the knowledge of law

29. Whose finding strengthened the argument for a sun-centered earth (a) Galelio (b) Kepler (c) Sir Isaac Newton (d) Tycho Brake
30. State two psychotropic substances (a) tobacco and water (b) food and distilled liquor (c) water and food (d) Liquor and Tobacco
31. The field of science that studies the stars, planets, moons and other heavenly bodies is called (a) Physics (b) Cosmology (c) Astronomy (d) Metaphysics
32. What is the local time of a place located on longitude  $75^{\circ}\text{E}$  when the GMT is 9.00am (a) 4.00pm (b) 2.00pm (c) 4.00pm (d) 2.00pm
33. Two branches of metaphysics are (a) Axiology and epistemology (b) empiricism and rationalism (c) Ontology and theodicy (d) ethics and Aesthetics
34. State two sources of chemical energy (a) Petroleum and Uranium (b) Sun and wind (c) Ethanol and oil (d) water and biogas
35. What is the most serious indoor air pollutant (a) Radon (b) nitrogen dioxide (c) Formaldehyde (d) Ozone
36. State the two stages of oil exploration (a) Reconnaissance survey and strike (b) search stage and recovery stage (c) exploration stage and recovery stage (d) site clearing stage and drilling stage
37. All but one is the cause of oil spillage (a) Blowout at well-heads (b) corrosion and leakages from pipelines (c) pipeline vandalization (d) Excessive incoming solar radiation
38. State one economic importance of micro organisms (a) they cause a lot of harm to plants & animals (b) they are the source of dangerous bacteria (c) all of the above (d) they degrade dead organic matter
39. What is a greenhouse effect? (a) house nurturing plants (b) the warming of the seas (c) the warming of the atmosphere (d) indoor vegetable garden
40. What is an isotherm? (a) Line joining places of equal height (b) line joining places of equal pressure (c) line joining places of equal rainfall (d) line joining places of equal temperature
41. As far back as 560BC \_\_\_\_\_ propounded the concept of biological evolution (a) Anaximander (b) Anaximenes (c) Heroditus (d) Thales of Miletus
42. All these are sources of chemical energy except (a) Petrol (b) Coal (c) Biogas (d) Water
43. \_\_\_\_\_ invented the microscope (a) John Needham (b) Anton Leeuwenhoek (c) Lazzaro Spallanzani (d) Louis Pasteur
44. \_\_\_\_\_ is considered the father of medicine (a) Johannes Kepler (b) Hippocrates (c) Archimedes (d) Sir Isaac Newton

45. A great thinker, philosopher and scientist who was believed to have fallen into a well gazing into the sky is \_\_\_\_\_. (a) Thales of Miletus (b) Copernicus (c) Pythagoras (d) Anaximenes
46. A point on the earth's surface directly above the source of the earthquake shock is known as \_\_\_\_\_. (a) Caldera (b) Locus (c) Focus (d) Epicentre
47. The first book written on geometry was titled \_\_\_\_\_. (a) The elements (b) Deductive Reasoning (c) Spatial Quantity (d) Shapes and Angles
48. In a computer, all but one are input operations (a) Keyboarding (b) Scanning (c) Mouse (d) Printing
49. The main difference between Science and Philosophy is \_\_\_\_\_. (a) both explore facts (b) Science is objective (c) both explore natural laws (d) all of the above
50. The first man credited with the observation of bacteria and protozoans and who described micro-organisms as animalcules is (a) Louis Pasteur (b) Aristotle (c) Anthony Van Leeuwenhoek (d) Robert Hooke
51. The various methods of treating surface water to remove pollutants include the following except (a) dredging (b) physical isolation of sediments (c) Chemical treatment of sediments (d) disposal of water into water channels
52. Which of these is true? (a) the time along each line of latitude is the same from east to west (b) the time along each line of longitude is the same from north pole to south pole (c) the time along each line of latitude and longitude is the same at every point (d) All of the above
53. The theory of evolution purports the following except (a) that life originated spontaneously (b) that life originated from inanimate matter by a gradual process (c) that as the environment continuously changes, the organisms which could adapt survive and reproduce (d) that variation/diversity was a result of the adaptation by different organisms
54. Methods of science consist of processes involving \_\_\_\_\_. (a) Experimentation, observation and inference (b) observation, experimentation and inference (c) experimentation, inference and observation (d) observation, inference and experimentation
55. The Greek Mathematician who wrote the first book on geometry was \_\_\_\_\_. (a) Socrates (b) Euclid (c) Ptolemy (d) Eratosthenes
56. A catastrophic event occurring near the end of a life of a star in which the star collapses and explodes is called \_\_\_\_\_. (a) Disaster (b) Eclipse (c) Supernova (d) Earthquake
57. \_\_\_\_\_ was the first to define 'force' as the prime cause of change in motion, and thus invented calculus (a) Sir Isaac Newton (b) Galileo (c) Johannes Kepler (d) Nicolaus Copernicus

58. The scientific study of the universe, its origin and development is referred to as \_\_\_\_\_ (a) Meteorology (b) Climatology (c) Cosmology (d) Astronomy
59. The first of stars formed in the universe constituted purely of \_\_\_\_\_ and \_\_\_\_\_ (a) hydrogen and helium (b) hydrogen and sodium (c) Silica and Alumina (d) Chlorine and oxygen
60. One of these is not the effect of air pollution (a) Thermal inversion and smog (b) Acid deposit on and acid rain (c) Ozone thinning (d) Unequal distribution of wealth
61. The part computer system that provides instructions to operation of the computer is known as (a) Hardware (b) Software (c) Instructional manual (d) Operator
62. Overgrowth of green algae comes from (a) Eutrophication (b) rich nutrition of carbohydrates (c) increase in fat concentration (d) increase in water concentration
63. These are all components of the structure of the earth except (a) Atmosphere (b) Hydrosphere (c) Lithosphere (d) Planosphere
64. From the Big Bang theory, universe came into existence in (a) 1920 (b) 15 billion years ago (c) at some unidentifiable time (d) 15 million years ago
65. The theory of spontaneous generation was irrevocably refuted in 1862 by (a) John Needham (b) Lazzaro Spallanzani (c) Anton Van Leeuwenhock (d) Louis Pasteur
56. The following contribute to Global warm except (a) Ozone layer depletion (b) Science & technology (c) Radioactive fallouts & chemicals in the atmosphere (d) the sun



- The above represents (a) Respiration (b) Fermentation (c) Photosynthesis (d) Germination
8. Petrol possesses which form of energy (a) Thermal energy (b) Chemical energy (c) Nuclear energy (d) Mechanical energy
  9. Gas flaring undesirable effects include the following except (a) high noise levels resulting from uncontrolled in the flare (b) heat radiation and thermal conductor in the environment (c) contribution of toxic gases & particulate materials which cause acid rain (d) no obvious side effect
  10. In computing, the input unit includes the following except (a) keyboard (b) scanner (c) mouse (d) printing ink

71. The mercury unit of the computer is for strong programmes while the output unit is for (a) Feeding Information Into the system (b) displaying processed information (c) processing information (d) deleting information
72. The following encourage household accidents except (a) using old frayed wiring with exposed loose ends (b) spilling liquids on floors (c) overloading of electric circuits (d) the use of built into application
73. Some causes of oil spillage include the following except (a) blow outs of oil wells (b) pipeline vandalism (c) corrosion and leakages from pipelines (d) excess rainfall
74. Around 460 – 370BC \_\_\_\_\_ introduced the use of plants for curing different types of diseases (a) Plato (b) Zeno (c) Demarcritus (d) Hippocrates
75. \_\_\_\_\_ occurs when the sun, earth and the moon are in a straight line (a) Eclipse (b) revolution of the earth (c) rotation of the earth (d) earthquake
76. The process of gradual and continuous orderly succession of changes is called \_\_\_\_\_ (a) generation (b) regeneration (c) revolution (d) evolution
77. Which of these scientists insisted that not immutability is the rule of the universe (a) Charles Darwin (b) Jean Lamarck (c) Alfred Wallace (d) Anton Leuwenhoek
78. The process by which organisms inheritable characters that suit them in a given environment survive, while the less suited are eliminated is known as \_\_\_\_\_ (a) Organic evolution (b) Biological development (c) spontaneously organism (d) Natural selection
79. The acronym DNA stands for (a) Deoxyribonucleic acid (b) Deoxyribonitrogen acid (c) Distincoxyribonudel acid (d) Deoxyribonucleic acid
80. \_\_\_\_\_ is regarded as the father of engineering (a) Pythagoras (b) Archimedes (c) Ptolemy (d) Euclid
81. The origin of science and technology can be traced to the \_\_\_\_\_ (a) Industrial evolution (b) Stone age (c) Middle age (d) Bronze age
82. \_\_\_\_\_ is the application of scientific and engineering principles to the processing of materials by biological agents to provide goods and services (a) Engineering (b) Science (c) Biotechnology (d) Economic
83. Charles Darwin and \_\_\_\_\_ jointly wrote the paper that revolutionized biological thought (a) Gregor Mendel (b) Wallale (c) Isaac Newton (d) Aristotle
84. An but one are evidence of Biological evolution (a) Fossils (b) Genetics (c) Cell structure (d) Adaptation
85. State one of the texture of the sedimentary rock (a) light coloured rocks (b) dark coloured rock (c) angular pebbles (d) high plastic index
86. \_\_\_\_\_ is a hereditary material (a) DNAase (b) DNA (c) RNA (d) RNAase

87. Biotechnology has impacted soil fertility by (a) reducing toxicity through the use of synthetic fertilizers (b) reducing the fertility of the soil (c) increasing the toxicity of the soil (d) none of the above
88. The instrument used in measuring sun's intensity is called (a) Sun guage (b) strokes recorder (c) meteorological station (d) Telescope
89. Convert  $140^{\circ}\text{F}$  to centigrade (a)  $60^{\circ}\text{C}$  (b)  $65^{\circ}\text{C}$  (c)  $58^{\circ}\text{C}$  (d)  $63^{\circ}\text{C}$
90. The chemical life of a cell is called (a) Centuries (b) Protoplasm (c) Nucleous (d) none of the above
91. Who invented the Telescope (a) Galilee Galileo (b) Isaac Newton (c) Aristotle (d) Louis Pasteur
92. \_\_\_\_\_ radiation can cause skin cancer (a) fire (b) ultraviolet (c) skin touch (d) carcinogen
93. In computer science, two types of software are (a) CPU and RAM (b) background and general purpose software (d) System and Application software (d) ENIAL and UNIVAL software
94. \_\_\_\_\_ are responsible for man's ability to adapt to new environment (a) Adequate life (b) Gene Mutations (c) Adaptation.
95. The cell theory states that all living things are \_\_\_\_\_ (a) composed of cells (b) composed of blood (c) composed of bones (d) composed of water
96. The instrument used to measure the Internship of earthquake is called (a) Seismograph (b) Seismic scale (c) Seismic scale (d) Seisomometer
97. Diabetes is caused by deficiency of (a) Glucose (b) Insulin (c) Vitamin B (d) Melatonin
98. The DNA molecule is made of \_\_\_\_\_ (a) 1-sugar, 4-nitrogenous bases, 3 Phosphate (b) 1-sugar, 4-nitrogenous bases, 1 phosphate (c) 2 sugar, 3-nitrogenous bases, 2 phosphate (d) 1 sugar, 5 nitrogenous bases, 1 phosphate
99. \_\_\_\_\_ and \_\_\_\_\_ are described as non-biodegradable pollutants (a) oil and water (b) oil and gas (c) heavy metals and nuclear wastes (d) air and fire
100. Examples of natural renewable resources are (a) Rock and waterfalls (b) food and sand beaches (c) soil and water (d) Minerals and Landforms

**NO ONLINE REGISTRATION OF COURSES, NO RESULTS! GST CARRYOVER STUDENTS MUST PAY THEIR CARRYOVER FEES AT THE BANK IN ORDER TO HAVE RESULTS! HAVE YOU PAID YOUR SCHOOL FEES?**

1. A Pg. 1	34. A Pg. 98	61. B Pg. 313	87. A Pg. 212
2. D Pg. 1	35. A Pg. 117	62. C Pg. 200	88. A
3. C Pg. 14	36. B	63. D Pg. 29	89. A Pg. 71
4. C Pg. 15	37. D	64. B Pg. 22	90. B Pg. 47
5. D Pg. 14-	38. C	65. D Pg. 36	91. A Pg. 158
6. D Pg. 27	39. C pg.86	66. D	92. B Pg. 116
7. C Pg. 13	40. D Pg. 71	67. C	93. C Pg. 315
8. D Pg. 12	41. A Pg. 12	68. B Pg. 98	94. B Pg. 51
9. A Pg. 13	42. D Pg. 98	69. D	95. A Pg. 46
10. D Pg. 109	43. B Pg. 194	70. D Pg. 302	96. A Pg. 80
11. A Pg. 87	44. B Pg. 170	71. B Pg. 303	97. B Pg. 52
12. D Pg. 111	45. A Pg. 11	72. D	98. B Pg. 214
13. B Pg 21-23	46. D Pg. 80	73. D	99. C Pg. 109
14. A Pg. 29	47. A Pg. 156	74. D	100. B Pg. 88
15. B Pg. 46	48. D	75. A	
16. A Pg. 51	49. B Pg. 10	76. D Pg. 33	
17. C Pg. 29	50. C Pg. 194	77. A Pg. 40	
18. A Pg. 71	51. D	78. D	
19. B Pg. 161	52. D Pg. 65	79. D Pg. 214	
20. B Pg. 183	53. A Pg. 33	80. B Pg. 156	
21. A pg. 307	54. A Pg. 1	81. B	
22. C Pg. 94	55. B Pg. 156	82. C Pg. 212	
23. C Pg. 300-	56. C Pg. 25	83. B Pg. 41	
24. D Pg. 303	57. A Pg. 158	84. D Pg. 41	
25. D Pg. 10	58. C Pg. 15	85. C Pg. 92	
26. C	59. A Pg. 24	86. C Pg. 49	
27. C	60. D Pg. 114		
28. C Pg. 15			
29. C Pg. 158			
30. D			
31. C			
32. D Pg. 66			
33. C Pg. 15			

**ABIA STATE UNIVERSITY, UTURU**  
**DIVISION OF GENERAL STUDIES**  
**SECOND SEMESTER EXAMINATION FOR 2018/2019 SESSION**  
**COURSE: GST 106- HISTORY AND PHILOSOPHY OF SCIENCE**

**TIME ALLOWED: 1 HR**

**20Mins.**

**INSTRUCTION: ANSWER ALL THE QUESTIONS.**

1. Mark Zuckerberg founded the \_\_\_\_ a. Whatsapp b. Instagram c. Facebook  
d. Twitter
2. \_\_\_\_ is an example of sedimentary rock a. coal b. slate c. marble d. quartz
3. Probable solutions to global warming include \_\_\_\_ a. Slow the growth of human population  
b. planting trees c. A+B d. none of the above
4. Which of these gases is a green house gas a. nitrous oxide b. methane c.  
methane d. all of the above
5. Household drugs grouped as pain killers include \_\_\_\_ a. Aspirin b. Novalgin c.  
Panadol d. all of the above
6. \_\_\_\_ is an inorganic water pollutant a. Tree b. Ammonia c. Grease d. motor oil
7. Which of these is an example of organic water pollutant a. Petrol b. insecticide  
c. detergent d. all of the above
8. Water pollutant from a single identifiable source is known as \_\_\_\_ a. non-point source b.  
discrete source c. point source d. run off source
9. Convert 20°C into Fahrenheit a. 86 b. 68 c. 70 d. 39
10. Main gas of the atmosphere of 78% is a. Oxygen b. Hydrogen c. methane  
d. Nitrogen
11. SIMA means \_\_\_\_ a. Silica + magnesia b. Silica + manganese c. Silica + magnesium d. none  
of the above
12. SIAL means \_\_\_\_ a. silica + Alum b. Silica + Argon c. Silica + Alumina d. none of the above
13. Which of these is a behavioural disorder a. Drug abuse b. Alcoholism c. Smoking  
d. all of the above
14. \_\_\_\_ is the main line of latitude a. Equator b. Tropic of cancer c. Arctic circle d.  
North Pole
15. Which of these is an example of inner planet a. Jupiter b. Earth c. Pluto  
d. Uranus
16. Giant planets are also known as \_\_\_\_ a. Inner planets b. Terrestrial planets c.  
Jovian planets d. Pluto
17. Assembly of stars is known as \_\_\_\_ a. clusters b. milky way c. Galaxy d.  
universe
18. \_\_\_\_ is an example of waste disposal a. Dredging b. open dump c. addition of activated  
charcoal d. none of the above
19. Which of these is a major contribution of Egypt to civilization \_\_\_\_ a. construction of tombs  
b. construction of library at Alexandria c. Mummifications d. all of the above
20. Pythagoras, the greatest mathematician discovered a. Irrational numbers b. the world is  
made up of numbers c. the earth is spherical d. all of the above



21. \_\_\_ is the father of medicine a. Hippocrates b. Socrates c. Plato d. Aristotle
22. \_\_\_ is one of the effects of acid rain a. corrodes marble b. corrodes plastics c. corrodes nylon d. all of the above
23. Which of these is not a pollutant a. herbicides b. stream c. pesticides d. carbon
24. \_\_\_ is an example of house solvent a. Kerosine b. water c. benzene d. all of the above
25. Chemical substances used in the home and farms to kill insects and small animals are called \_\_\_ a. Pesticides b. house solvents c. benzene d. fluorides
26. The Greeks were known for \_\_\_ a. magic and divination development b. compiled first star catalogue c. developing art of alphabetic writing d. none of the above.
27. \_\_\_ is the cradle of civilization a. Babylonia b. Asia c. Egypt d. Greece
28. The division of the day into 24 hours and circle into 360 degrees were developed by \_\_\_ a. Russia b. Babylonia c. Egypt d. Asia
29. Which of these is not a household drug a. feldine b. paracetamol c. caffeine d. cocaine
30. \_\_\_ is a household appliance not powered by electricity a. lantern b. iron c. television d. fan
31. \_\_\_ is one of the effects of noise pollution a. stress b. hypertension c. hearing impairment d. all of the above
32. Chemical treatment of water involves a. activated charcoal b. additional of iron salts c. addition of aluminium salts d. all of the above
33. Example of ozone eaters \_\_\_ a. nitrogen oxides b. carbon tetrachloride c. fungicide d. all of the above
34. Ozone causes \_\_\_ in the earth a. smog b. reduce air visibility c. stress plants d. all of the above
35. Which of these is the largest source of carbon monoxide a. automobiles b. man c. plants d. none of the above
36. Which of these was the first tool in stone age a. bus b. car c. sharp stones d. arrows
37. What is the correct sequence of technological development a. middle age → stone age → bronze age → industrial age b. stone age → bronze age → middle age → industrial age c. Bronze age → middle age → stone age → industrial age d. none of the above
38. \_\_\_ discovered penicillin in 1929 a. Robert Brown b. Louis Pasteur c. Alexander Fleming d. Watson and Crick
39. \_\_\_ described the theory of natural selection and the origin of species a. Charles Darwin b. Theophrastus c. Dioscoride d. Robert Hooke
40. \_\_\_ discovered the law of inheritance a. W. M Stanley b. Julius Sachs c. Gregor Mendel d. Alexander Fleming
41. \_\_\_ was addicted to emphasis of the good and preached that "a sound mind must have to be exposed to the studies of arithmetic, geometry, astronomy and harmony" a. Euclid b. Aristotle c. Socrates d. Plato

42. The theory of syllogism in mathematical logic was developed by \_\_\_\_ a. Aristotle b. Archimedes c. Kepler d. Copernicus
43. \_\_\_\_ wrote the first book on geometry a. Archimedes b. Galileo c. Euclid d. Vesalius
44. The first book ever written on geometry was titled \_\_\_\_ a. Geomatrix b. integration c. Eudoxos d. The elements
45. The world's most disastrous nuclear accident occurred on 26-04-1986 in the Soviet Union at a. Ukraine reactor b. Moscow Reactor c. Georgia reactor d. Chernobyl reactor
46. \_\_\_\_ percent of the entire area of all countries in the world according to the International Union for the Conservation of Nature (IUCN) should be declared Protected Area (P.A) a. 10 b. 5 c. 20 d. 15
47. BOD is a measure of \_\_\_\_ a. biodegradable inorganic matter b. non-biodegradable inorganic matter c. non-biodegradable organic matter d. biodegradable organic matter
48. Which is the main cause of the rise of sea levels since the 20<sup>th</sup> century? a. melting of glaciers b. thermal expansion of water volume c. both A and B above d. Tsunamis
49. Acid rains are more prominent in \_\_\_\_ regions a. temperate b. tropical c. arid d. polar
50. Rainwater is classified as acidic if its pH is less than \_\_\_\_ a. 7.5 b. 7.0 c. 6.5 d. 5.6
51. A normal rain will generally be a. slightly alkaline b. slightly acidic c. highly alkaline d. highly acidic
52. Wood pulp from forests is used for making \_\_\_\_ a. paper b. chipboard c. plywood d. lumber
53. During photosynthesis, plants produce a. carbon monoxide b. nitrogen c. carbon dioxide d. oxygen
54. The magnitude of an earthquake is measured in \_\_\_\_ units a. Richter b. Ergs c. Joules d. centigrades
55. The driving force in an ecosystem is \_\_\_\_ a. solar energy b. producers c. plants d. biomass energy
56. The term ecosystem was proposed by \_\_\_\_ a. Odum b. Gardner c. Tensley d. Elton
57. \_\_\_\_ is considered as the father of medicine a. William Harvey b. Hippocrates c. Aristotle d. Herophilus
58. What is the equivalent of 60°F on the centigrade scale (°C)? a. 20°C b. 15.6°C c. 16.5°C d. 15°C
59. Convert 30°C to °F a. 86°F b. 90°F c. 76°F d. 212°F
60. The distance from the Earth to the sun during Perihelion is \_\_\_\_ million kilometers a. 50 b. 150 c. 151 d. 149
61. The Earth makes a rotation of 15° in a. 30 minutes b. 21 hours c. 10 minutes d. 1 hour
62. One year in Mercury is \_\_\_\_ days on Earth a. 365<sup>1</sup>/4 b. 88 c. 30 d. 7
63. When it is 8 a.m in a place located 15°W, what will be the time in another place located 60°W? a. 5 a.m b. 11 a.m c. 3 p.m d. 1 p.m

64. A grazing food chain starts with  
 a. cattle                      b. field                      c. a green plant  
 d. organic waste and dead organisms
65. The anti-malarial drug "Quinine" is obtained from  
 a. bark of cinchona tree                      b. Jelly  
 fish                      c. periwinkle plant                      d. a bacterium
66. The famous antibiotic "tetracycline" is obtained from  
 a. periwinkle plant                      b. Jelly fish  
 c. a bacterium                      d. bark of cinchona tree
67. The farthest planet from the sun is                      a. Mercury                      b. Saturn                      c. Jupiter                      d. Pluto
68. In the early 1900's, the majority of the energy sources were from  
 a. Coal                      b. Petroleum  
 c. Fuel wood                      d. Nuclear power
69. The word "ecology" was derived from two Greek words, which mean  
 a. study of life                      b. study  
 of life and land                      c. study of life and home                      d. study of home
70. Hydrological cycles involve movement of  
 a. hydrogen                      b. oxygen                      c. nitrogen  
 d. water

**ONLINE REGISTRATION OF COURSES, PAYMENT OF GST CARRYOVER AND SCHOOL FEES ARE COMPULSORY FOR STUDENTS TO HAVE RESULTS.**