**PATFIN HIGH SCHOOL, AKESAN, LAGOS STATE**

**MOCK EXAMINATION [2018/2019]**

**SUBJECT: BASIC SCIENCE AND TECHNOLOGY CLASS: J. S. S. 3**

**SECTION A OBJECTIVES**

**Instruction: answer all questions DURATION: 2 HOURS**

**BASIC SCIENCE**

1. Livestock means \_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)goats and sheep (b)cattle (c)animals raised mainly for food and hides o leather (d)pigs
2. Which of the following is not a product from animals? (a)hides (b)milk (c)meat (d)dyes
3. Which of the following is not a food crop? (a)maize (b)rice (c)potatoes (d)rubber
4. The mineral “limestone” is used in the manufacture of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)cement (b)flour (c)perfumes (d)petroleum
5. Lack of protein in the body causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)ricket (b)kwashiorkor (c)beriberi (d)blindness
6. Oil spillage is a good example of \_\_\_\_\_\_\_\_\_\_\_\_\_. (a)air pollution (b)land pollution (c)water pollution (d)noise pollution
7. Change in the direction of the light ray is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)reflection (b)fraction (c)refracted (d)translucent
8. An echo can be defined as \_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)sound made by a turning fork (b)a sound reflected by an obstacle (c)sound made by a table (d)sound produced by a noise
9. A body that produces its own light is said to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)luminous (b)opaque (c)transparent (d)non luminous
10. Ammeter is used to measure \_\_\_\_\_\_\_\_\_\_\_\_. (a)electric conductor (b)electric insulators (c)electric current (d)potential difference of current
11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ are called conductor because they conduct electricity by allowing electric current to pass through them easily. (a)magnet (b)element (c)compound (d)metals
12. Some radioactive elements are \_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)sodium, calcium, polonium. (b)uranium, polonium, radium (c)gold, silver, magnesium (d)radium, magnesium, sodium
13. Agricultural tools are the following except \_\_\_\_\_\_\_\_\_\_\_. (a)cutlasses (b)tractor (c)fishing hooks (d)none
14. Like poles repel, unlike poles attract. This is the law of \_\_\_\_\_\_\_\_\_\_\_\_ (a)lighteesm (b)magnetism (c)heat (d)soundeesm
15. The that travels through space is called \_\_\_\_\_\_\_\_\_\_\_. (a)heat (b)radiant (c)sun (d)light
16. Energy obtained in food is \_\_\_\_\_\_\_\_\_\_\_\_ energy. (a)food (b)solar (c)nuclear (d)chemical
17. Refraction of light occurs when rays of light \_\_\_\_\_\_\_\_\_\_\_\_\_. (a)fall on a rough surface (b)travel on a straight line (c)move from a medium to another (d)strike a polished material
18. Dairy products do not include \_\_\_\_\_\_\_\_\_\_\_\_\_. (a)cheese (b)egg (c)milk (d)yoghurt
19. A legal body which enforce forestry regulation is \_\_\_\_\_\_\_\_\_\_. (a)FEPA (b)NAFCON (c)NESREA (d)FAD
20. The pubertal changes occur at the \_\_\_\_\_\_\_\_\_\_\_\_\_ stage in life. (a)childhood (b)adulthood (c)widowhood (d)adolescent
21. The temperature at which a substance changes from liquid to vapour \_\_\_\_\_\_\_\_\_\_\_\_\_\_ point. (a)boiling (b)freezing (c)melting (d)vapour
22. The Ozone layer is located in the \_\_\_\_\_\_\_\_\_. (a)troposphere (b)ionosphere (c)stratosphere (d)photosphere
23. The temperature of the sun’s radiation \_\_\_\_\_\_\_\_\_\_\_. (a)60oC (b)600oC
24. The glass prism used in separation of colours of white is ­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)triangular (b)rectangular (c)cuboid (d)pyramid
25. The product of refinery used for road construction is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (a)bitumen (b)gasoline (c)paraffin (d)kerosene

**BASIC TECHNOLOGY**

1. Potter wheel is used when producing a product made of \_\_\_\_\_\_\_\_\_\_\_.
2. Rubber b) Plastic c) Metal d) Ceramics

The type of line above is used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Cutting plane b) Hidden details c) Dimension d) Centre line
2. The part supports and transmits the load of the building to the subsoil is \_\_\_\_\_\_\_\_.
3. Roof b) Wall c) Lintel d) Foundation
4. The best form of accident prevention in the workshop is to \_\_\_\_\_\_\_\_\_\_.
5. Work well b) Give first aid c) Avoid the use of machine d) Obey safety rules
6. A blue print shows one of the following
7. Plan, elevation and cross-section b) Elevation and cross-section only c) Plan and elevation only d) Plan only
8. A professional job from which we earn living in life is called \_\_\_\_\_\_\_\_\_\_.
9. Technology b) Career c) Employment d) Course
10. The diagram below represents
11. Timber b) Wash-hand basin c) Shower d) bath
12. Which of these is used to protect the hand against electric shock?
13. Leather glove b) Plastic glove c) Rubber glove d) Synthetic glove
14. The process of reducing moisture content in a timber is called \_\_\_\_\_\_\_\_.
15. Maintenance b) Conversion c) Seasoning d) Preservation
16. Which of the following is not a purpose of wall?
17. To enclose space b) To divide space c) To prevent moisture from the soil d) For security purpose
18. Holes can be produced in metals by these processes EXCEPT \_\_\_\_\_\_\_\_\_\_
19. Punching b) Drilling c) Using brace d) Welding
20. The property that distinguishes rubber from ceramics and plastic is its \_\_\_\_\_\_\_\_\_\_.
21. Malleability b) Elasticity c) Toughness d) Brittleness
22. The strongest form of corner-joint used in cabinet work is called \_\_\_\_\_\_\_ joint.
23. Halving b) Dovetail c) Bridle d) Butt
24. Which of these is not a woodwork joint?
25. Butt joint b) Bridle joint c) Band joint d) Dovetail joint
26. Pictorial drawing inclined at angle 300 to the horizontal plane is called \_\_\_\_\_\_\_\_ drawing.
27. Isometric b) Orthographic c) Oblique d) Perspective
28. Rubbers are classified into \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_.
29. Super and Synthetic b) Natural and Synthetic c) Thermo and Synthetic d) Latex and Artificial
30. This symbol  represents \_\_\_\_\_\_\_\_
31. Inductor b) Resistor c) Capacitor d) Transistor
32. Which of the following is used to show the working drawing of a building?
33. Orthographic b) Isometric c) Perspective d) Oblique
34. A platform on which workers perform the woodwork operations is called \_\_\_\_\_\_\_\_.
35. Workbench b) Bench hook c) Bench vice d) Bench stop
36. Which of the following simple machines is used for lifting water from the well?
37. Lever b) Pulley c) Gear d) wheel
38. The point where turning takes place in a lever is called \_\_\_\_\_\_\_\_\_\_\_.
39. Load arm b) Fulcrum c) Effort arm d) Lifting point
40. Which of the following is a metal work measuring tool?
41. Scriber b) Bradawl c) Calliper d) Try-square
42. The angle of inclination in isometric drawing is \_\_\_\_\_\_\_\_\_\_.
43. 300 b) 450 c) 600 d) 900
44. Which of the following is NOT a form of metal?
45. Cube b) Sheet c) Bar d) Pipe
46. In a scale of ratio 1:4, if the actual length of the object is 200mm, what is the length on the scale?
47. 25mm b) 50mm c) 75mm d) 800mm

**PHYSICAL AND HEALTH EDUCATION**

1. The stage or period at which the reproductive organs begin to mature is \_\_\_\_\_\_\_\_\_\_\_\_.
2. Infancy b) Adolescent c) Puberty d) Childhood
3. Gymnast is a performer of \_\_\_\_\_\_\_\_\_\_ activities.
4. Gymchronist b) Gymnastics c) Acrobatics d) Aquatic
5. Which of these is NOT a basic swimming stroke?
6. Front crawl b) Breast stroke c) Arms stroke d) Back stroke
7. The head of the family is \_\_\_\_\_\_\_\_\_\_\_\_.
8. The most senior person b) The father c) The mother d) The most junior person
9. The men events in athletics which are held on two consecutive days is called \_\_\_\_\_\_\_\_.
10. Pentathlon b) Triathlon c) Heptathlon d) Decathlon
11. How many lanes have a standard Olympic swimming pool?
12. 2-3 b) 4-6 c) 6-8 d) 9-10
13. \_\_\_\_\_\_\_\_\_ is the Nigeria’s first world class sprinter.
14. Mary Onyali b) Melvin Bibo c) Chidi Imoh d) Paul Kehinde
15. Teenage pregnancy is caused by the following except \_\_\_\_\_\_\_\_\_\_\_\_\_.
16. Curiosity b) Poverty c) Child marriage d) Sickness
17. Which of the following is not a pentathlon event?
18. Shooting b) Archery c) Swimming d0 Fencing
19. Cross \_\_\_\_\_\_\_\_\_ is an equipment in Pole vault.
20. Arm b) Leg c) Hand d) Bar
21. The activity done during leisure hour is \_\_\_\_\_\_\_\_\_\_\_\_.
22. Recreation b) Sports c) games d) Gymnastics
23. Meal that contains various classes of food in the right proportion is \_\_\_\_\_\_\_\_\_\_\_.
24. Vitamin b) Calories c) Balance diet d) Adequate salt
25. Which of these is NOT a type of computer game?
26. Nature pack b) Beach rally c) Scrabble d) Abula
27. Sewage primarily means \_\_\_\_\_\_\_\_\_\_\_\_ waste.
28. Liquid b) Solid c) Soluble d) Gaseous
29. These are the techniques of Javelin except the \_\_\_\_\_\_\_\_\_\_\_.
30. Landing b) Approach run c) Grip d) Release
31. Which of these swimming stroke is the best for beginners?
32. Front crawl b) Breast stroke c) Arms stroke d) Back stroke
33. The table tennis game is started by a \_\_\_\_\_\_\_\_\_\_\_\_\_.
34. Service b) Centre pass c) Bully d) Jumping
35. Which of the following diseases is a non-communicable disease?
36. Measles b) Scabies c) Dysentery d) Epileptic
37. The act of physical engagement between two unarmed persons is called \_\_\_\_\_\_\_\_\_\_\_.
38. Football b) Dribbling c) Gymnastics d) Wrestling
39. Which of the following bodies is responsible for enforcing law on narcotic drug usage in Nigeria?
40. NDAA b) NDLEA c) NAFDAC d) FRSC
41. A disease commonly found in children caused by malnutrition and of which one of its symptom is pot belly is \_\_\_\_\_\_\_\_\_\_.
42. Craw-craw b) Boil c) Scrapies d) Kwashiokor
43. Judo as a combative game was founded by a \_\_\_\_\_\_\_\_\_\_\_\_\_.
44. Korean b) Japanese c) Chinese d) German
45. Which of the following is NOT a component of physical fitness?
46. Speed b) Acceleration c) Agility d) Muscular strength
47. How many players make up a Hockey team?
48. 18 b) 22 c) 6 d) 11
49. When a bone end is displaced from joint, it is known as
50. Dislocation b) Bruise c) Muscle pull d) Fracture

**INFORMATION TECHNOLOGY**

1. RCN stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Registration Council of Nigeria b) Registration Committee of Nigeria c) Registration Computers of Nigeria d) Register Council of Nigeria e) None of the above
3. \_\_\_\_\_\_\_\_\_\_ is a visual representation of the relations between certain quantities plotted with reference to a set of axes.
4. Charts b) Graph c) Logo d) Menu e) Spread sheet
5. To create a new work sheet in Microsoft Excel, press \_\_\_\_\_\_\_\_\_\_\_.
6. Ctrl + Y b) Ctrl + U c) Ctrl + B d) Ctrl + V e) Ctrl + N
7. There are \_\_\_\_\_\_\_\_\_\_\_ types of entries.
8. 3 b) 4 c) 5 d) 6 e) 2
9. The short cut for save on the keyboard is \_\_\_\_\_\_\_\_\_\_\_\_.
10. Ctrl + S b) Ctrl + V c) Ctrl + U d) Ctrl + Y e) Ctrl + N
11. Spreadsheet is capable of creating graphs/charts like \_\_\_\_\_\_\_\_\_\_\_\_\_.
12. Scale b) Pie chart c) Graphs d) Excel e) Power point
13. \_\_\_\_\_\_\_\_\_\_ is an example of computer professionals.
14. System Analyst b) Computer Games c) System Controller d) Software Users e) None of the above
15. The quality that is expected of person intending to become computer professional is \_\_\_\_\_\_\_.
16. Bad manners b) Poor mathematical skill c) Inability to solve problems d) Excellent analytical skill e) None of the above
17. NCC stands for
18. Nigeria Communication Commission b) Nigeria Computer Council c) National Computer Control d) National Council of Computers e) None
19. Computer games are used for \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_.
20. Eating, drinking b) Entertainment, relaxation c) Solving equation, playing d) Disturbing, spraying e) None of the above
21. \_\_\_\_\_\_\_\_\_\_\_\_ developed a new type of arithmetic logic that today bears his name.
22. George Bane b) George Emmanuel c) George Bill d) George Bush e) George Boole
23. A good computer professional must \_\_\_\_\_\_\_\_\_.
24. Be lazy b) have an obligation the public c) have a non-challant attitude to work d) be arrogant to his employer or client e) be selfish
25. \_\_\_\_\_\_\_\_\_\_ are made of texts that are entered into the active worksheet.
26. Logos b) Labels c) Spreadsheet d) Worksheet e) None of the above
27. \_\_\_\_\_\_\_ are mathematical expressions which return calculated values.
28. Formulas b) Numbers c) Rows d) Columns e) Spreadsheet
29. \_\_\_\_\_\_\_\_\_\_\_ is an example of computer games.
30. Riot b) Scrabble c) Lotus d) BASIC e) Spreadsheet
31. The symbol of Auto sum in Spreadsheet package is \_\_\_\_\_\_\_\_\_\_\_.
32. ∑ b) W c) = d) “ ” e) Enter
33. \_\_\_\_\_\_\_\_ is used to ascertain the number of cells within a specified range that contains number.
34. Range b) Formula c) Count d) Worksheet e) Spreadsheet
35. A \_\_\_\_\_\_\_\_\_ is a circle graph divided into pieces, each displaying the size of some related piece of information.
36. Pie chart b) Bar chart c) Graph d) Scatter diagram e) Power point
37. In creating a bar chart, two groups of data are involved i.e the \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_ axis.
38. X, V b) N, M c) X, Y d) V, P e) A, B
39. \_\_\_\_\_\_\_\_ is someone who writes computer software.
40. System Analyst b) Computer Programmer c) Computer Operator d) Computer Educator e) None
41. One of the disadvantages of computer games is \_\_\_\_\_\_\_\_\_.
42. It leads to fatigue b) It saves time c) It is good for relaxing d) It reduces corruption e) It enhances creative skills
43. \_\_\_\_\_\_\_\_ is one whose duty is to train people on how to use computer hardware and software.
44. Database Administrator b) Computer Engineer c) Computer Operator d) Computer Educator e) None
45. \_\_\_\_\_\_\_\_ ensures that the computer is working as expected and also maintains and repairs the computer.
46. Computer Engineer b) Computer Programmer c) Computer Operator d) Graphic Artist e) Software Developer
47. Computer Professionals should not \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
48. Practice any act that will jeopardize the country b) Practice the ethics of the profession c) Practice self – appraisal d) Have good mathematical skill e) Have good swimming skill
49. One of the chief jobs of a network administrator is \_\_\_\_\_\_\_\_\_\_\_\_.
50. Problem solving b) Task accomplishment c) Connectivity d) Resolution e) Blue tooth