

UMMUL QURA HIGH SCHOOL
AROWONA BUS-STOP, AMULOKO-AKANRAN ROAD, IBADAN.
2020/2021 THIRD TERM EXAMINATION

SUBJECT: BST1
CLASS: JSS2

DURATION : 2hrs : 30mins
INSTRUCTION: Attempt section A and B

SECTION A: OBJECTIVES

1. Human being *uses* his intelligence to _____
 - A. Reproduce himself
 - B. Produce and fabricate tools
 - C. Protect himself from danger
 - D. Search for food and shelter
2. Growth can *best* be defined as _____
 - A. Ability to overcome environmental stress
 - B. Ability to function well
 - C. Irreversible increase in height and size
 - D. Decrease in height, weight and size
3. The energy of a moving body *is* _____
 - A. Romantic energy
 - B. Kinetic energy
 - C. Chemical energy
 - D. Potential energy
4. One of these is *correct*
 - A. Chemical bottles must be well labelled
 - B. Chemical must be stored in dry cool place
 - C. Safety signs and instructions must be strickly adhere to
 - D. None of the above
5. Work is mathematically *expressed* as _____
 - A. Power/time
 - B. $\frac{1}{2} mc$
 - C. Force \times distance
 - D. Mass \times velocity
6. What is the *kinetic energy* of a fired bullet of mass 0.5kg that moves with a velocity of 8m/s?
 - A. 8J
 - B. 4J
 - C. 2J
 - D. 16J
7. The *unit* of work done is _____
 - A. Joule
 - B. Amps
 - C. Volts
 - D. Newton
8. From which of these *methods* can heat be transformed by the vibration of the particles in the medium?
 - A. Diffusion
 - B. Convection
 - C. Radiation
 - D. Convection
9. The *method* of heat transfer which *does not* involve any material medium between the source of heat the object heated
 - A. Convection
 - B. Conduction
 - C. Radiation
 - D. Osmosis
10. Which of these *method* is applicable in the baking of bread, cake and grilling of suya?
 - A. Conduction
 - B. Radiation
 - C. Convection
 - D. Diffusion

11. Land and sea breeze is an **example** of _____
 A. Osmosis
 B. Conduction
 C. Convection
 D. Diffusion
12. _____ is application for ventilation of houses and **better** air circulation
 A. Radiation
 B. Convection
 C. Conduction
 D. Variation
13. A car travels at 20m/s with a force of 100n. **Calculate** the power of its engine in kw?
 A. 20kw
 B. 0.2kw
 C. 200kw
 D. 2kw
14. Aquatic **habitats** are classified into three, **based on**
 A. Water body
 B. Water volume
 C. Salinity
 D. Ph
15. What makes man **unique** is the _____
 A. Possession of bigger and highly developed brain
 B. Ability to walk uprightly on two legs
 C. Possession and audible speech
 D. Ability to move from place to place
16. When a chemical is dangerous and poisonous, it is **describe** as
 A. Non – hazardous and non – toxic
 B. Hazardous and toxic
 C. Explosive and corrosive
 D. Inflammable
17. Cooking **utensils** are usually made from metals that are _____ of heat
 A. Radiators
 B. Conductors
 C. Insulators
 D. Reflectors
18. Which of the following **converts** electrical energy to heat energy
 A. Pressing iron
 B. Electric fan
 C. Blender
 D. Bicycle
19. The sunlight **gets** to us through _____
 A. Radiation
 B. Conduction
 C. Convection
 D. Vibration
20. Which of these **methods** is applicable to the use of pressing iron for pressing our clothes?
 A. Diffusion
 B. Conduction
 C. Convection
 D. Radiation
21. A disease characterized by abnormal red blood cell is **known** as
 A. Obesity
 B. Kwashiokhor
 C. Sickle cell anaemia
 D. Asthma
22. Which of this is a **non-communicable** disease?
 A. Cholera
 B. Hiv/aids
 C. Measles
 D. Kwashiokhor
23. A disease characterized by high blood **pressure** is _____
 A. Headache
 B. Hypertension
 C. Cough
 D. Stroke
24. Asthma, cancer and hypertension **are** _____

- A. Individual disease
 - B. Communicable disease
 - C. Contagious disease
 - D. Non – communicable disease
25. Non communicable disease **are** _____ disease
- A. Contagious
 - B. Non – contagious
 - C. Incurable
 - D. Defective
26. Wheezing and chronic cough are **symptoms** of _____
- A. Apolo
 - B. Headache
 - C. Obesity
 - D. Asthma
27. The following are aspects of healthful school living **except**
- A. Proper sewage and refuse disposal
 - B. Hiv/aids education
 - C. Friendly staff and students relationship
 - D. Accident prevention
28. The release of **harmful** substances that contaminate the environment
- A. Pollutants
 - B. Pollution
 - C. Dust
 - D. Smoke
29. A state of **complete** physical, social mental and emotional well – being
- A. Training
 - B. School health
 - C. Exercise
 - D. Health
30. The following are programme components of school health **except**
- A. Community development
 - B. Health instruction
 - C. School health service
 - D. Healthful school living
31. Ability to take care of one’s health is **called** _____
- A. Personal health
 - B. Community health
 - C. Environment health
 - D. Industrial health
32. Which of the following is **not** an effect of environmental pollution?
- A. Respiratory disease
 - B. Outbreak of digestive tracts
 - C. Destruction of soil nutrients
 - D. Suitable environment
33. **One** of the following is a cause of hypertension
- A. balance diet
 - B. Stress
 - C. Extreme temperature
 - D. Physical exercise
34. Excess body fat is **caused** by _____
- A. Sedentary lifestyle
 - B. Regular physical exercise
 - C. Diet
 - D. Weight loss surgery
35. The following are **reasons** for human trafficking
- A. To glorify god
 - B. For exploration
 - C. For self satisfaction
 - D. For political ambition
36. Transportation and laboring of people by means of threat or force is **known** as _____
- A. Exhaustion
 - B. Human trafficking
 - C. Starvation
 - D. Exploitation
37. The solution to human trafficking include the following **except** _____
- A. Government action
 - B. Punishing the offenders
 - C. Public enlightenment on human trafficking
 - D. Compensation of the traffickers

38. Which of the following is a **group** of human trafficking victims?
- A. Layers
 - B. House maids
 - C. Teachers
 - D. Students
39. Which of the following is **referred** to acrobatic dance in yoruba land?
- A. Langa
 - B. Atilogwu
 - C. Bata
 - D. Hip-hop
40. Animals with backbones are **called**
-
- A. Invertebrate animals
 - B. Vertebrate animals
 - C. Bony animals
 - D. Skinny animals

SECTION B: THEORY PART

INSTRUCTION: ANSWER ANY TWO QUESTIONS

- 1a,i. Define **non-communicable** disease
- ii. List **three** factors responsible for non – communicable diseases
 - iii. Itemize **four** diseases that are not contagious in nature
- bi. What is child abuse?
- ii. List **three** types of child abuse
- c. Highlight **three** possible ways of combating human trafficking
- 2a,i. What is posture?
- ii. State **five** basic body position you know
- bi. What are the **causes** of postural defect
- ii. Describe the **process** through which heat flows from a hot body to a cold one when in contact
- ci. Explain heat radiation and state **one** of its application
- ii. Define **assault** in sport
- 3a,i. Differentiate **between** petroleum and petrochemicals.
- ii. Mention any **five** fractions/products of fractional distillation of crude oil
- bi. State **two** factors that affect evaporation
- ii. State and explain **two** types of mechanical energy
- ci. Calculate the **potential energy** of an object of mass 15kg at a height of 50m. (g =10m/s²)

- ii. Calculate the *kinetic energy* possessed when a car of mass 20kg moves at a velocity of 12m/s.

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INSTRUCTION: Attempt section A and B

SECTION A: OBJECTIVES

1. Hydraulic machine *uses* almost _____ liquid
 - A. Compressible
 - B. Incompressible
 - C. Underground
 - D. Electric
2. Pneumatics machines *uses* _____ to generate force at a point
 - A. Energy
 - B. Fluid
 - C. Power
 - D. Jack
3. A machine can also be *called* _____
 - A. Power
 - B. Device
 - C. Motor
 - D. Material
4. An *example* of liquid used by hydraulic machine include the following *except*
 - A. Diesel
 - B. Spirit
 - C. Petrol
 - D. Oil
5. Compressor are *often* driven by _____ motors
 - A. Mechanical
 - B. Electric
 - C. Chemical
 - D. None of the mentioned
6. Which of the following is *not* a component of hydraulic and pneumatic machine
 - A. Pipe
 - B. Reservoir
 - C. Mouth
 - D. Control valves
7. Another *name* for gear is
 - A. Driver
 - B. Driven
 - C. Cog
 - D. Motor
8. A rotating motion of the driven gear in a *direction* _____ to the direction of the driver gear
 - A. Similar
 - B. Alternative
 - C. Opposite
 - D. All of the mentioned
9. What shape does gear manually *has*
 - A. Rectangular
 - B. Square
 - C. Circular
 - D. Triangular
10. What is the *gear ratio* of a driven gear with 60 teeth to driver gear of 20 teeth
 - A. 2:6

- B. 1:3
C. 3:1
D. 40:20
11. What does rpm **stands** for
A. Rolling per minutes
B. Rotation per motion
C. Revolution per motion
D. Revolution per minutes
12. If a gear driver has 100 teeth and gear B has 25 teeth, what is the **gear ratio**
A. 25:15
B. 5:1
C. 4:1
D. 1:4
13. A _____ is usually a petroleum based product that **keeps** the moving parts of a machine functioning property
A. Moisture
B. Cream
C. Water
D. Lubricant
14. Both pneumatic and hydraulic machinery are tools used for the following **except**
A. Drilling
B. Lifting
C. Crushing
D. Harvesting
15. All these are **examples** of hydraulic machine **except**
A. Elevator
B. Barber's chair
C. Hydraulic jacks
D. All of the mentioned
16. Backaches, neck pains, wrist injuries are some of the **problem** that can be incurred by **computer users** when having
A. A bad sitting posture
B. A long keyboard
C. A flat screen monitor
D. Electricity
17. The use of anti -glove protector helps in protecting the eyes **against** _____ rays
A. Radioactive
B. Sun
C. Motor
D. Mechanical
18. Which of the following is **not** an electronic medium of information transmission?
A. Poster
B. Television
C. Radio
D. G.S.M
19. All the following are **impact** of IT on our society **except**
A. Knowledge acquisition has become expensive
B. It has turned the whole world into global village
C. Acquiring knowledge has become cheaper
D. Information can reach large number of people fast
20. What is the full meaning of **I.C.T**?
A. Information and communication technology
B. Information communication technology
C. Information communication and technology
D. Information common technology
21. URL **stands** for
A. Uniform resources longitudes
B. Uniform resources locator
C. Universal research locator
D. Universal remote longitudes
22. Which of these packages is appropriate for **presentation** of text and graphic for the audiences
A. Microsoft word
B. Corel draw

- C. Microsoft access
D. None of the mentioned
23. The following are the features of internet environmental **except**
A. Home
B. Front
C. Back
D. Refresh
24. www.jamb.org.represents
A. User name
B. Websites
C. E-mail address
D. Sign-up
25. Ummulqura @ yahoo.com is an **example**
A. Sign-up
B. E-mail address
C. User name
D. Websites
26. A graphical **representation** of program on the **screen**
A. Task bar
B. Microsoft word
C. Icon
D. None of the mentioned
27. An **example** of internet browser is _____
A. Microsoft word
B. Corel draw
C. Internet explorer
D. All of the mentioned
28. A good **example** of search engine is
A. Google
B. Giggle
C. Google
D. Websites
29. A.T.M simply means
A. Activation teller machine
B. Automated teller machine
C. Automation teller machine
D. Automated teller mercury
30. Eye strain can be **caused** inadequate _____ control
A. Wire
B. Desk
C. Lighting
D. Door
31. _____ package allow for **freehand drawing** and colouring by using the computer mouse
A. Microsoft
B. No excel
C. Ms-word
D. panting
32. There are _____ **categories** of graphic package
A. 5
B. 3
C. 6
D. 2
33. CAD **means** _____
A. Computer auto design
B. Computer artist design
C. Computer aided designer
D. Computer aided design
34. Which of the following gives a library of created graphic that can be **imported** to other program
A. Corel-draw
B. Ms-word
C. Mavis beacon
D. Instant artist
35. A place on a graphic package environment where design display is **known** as
A. Tool box
B. Photoshop
C. Website
D. Work-space
36. Pictures that are drawn or edited by paint are **called**
A. Bitmaps
B. Logo
C. Doc
D. None of the mentioned
37. Magnifying glass tool is also **called**

- A. Zoom tool
 - B. Form tool
 - C. Hand tool
 - D. Mirror
38. A _____ is an oval shape which look like a circle that **has**
- A. Ellipse
 - B. Eraser
 - C. Polygon
 - D. All of the mentioned
39. Which of the following is **not** an ICT gadget
- A. Gas cylinder
 - B. Laptop
 - C. Satellite
 - D. Printer
40. S.I.M. **stands** for
- A. Subscriber identity module
 - B. Subscriber identity mode
 - C. Suitable identity module
 - D. Switch on internet mode

SECTION B: THEORY PART

INSTRUCTION : ANSWER ANY (3) QUESTION FROM THIS PART

- 1a. Define gear ?
- b. State **three** uses of gear
- c. Calculate the speed of rotation of a 20 teeth gear when it is driven by a 40 tooth gear and rotate at 10rpm.
- 2a. Mention **five** safety measure for a computer user
- b. State any **five** paint tools and their functions
- 3a. What is graphic package
- b. List **five** example of graphic package
- c. State/Explain **three** features of graphic package
- 4a. What do you **understand** by ICT
- b. List **five** component/ gadget of ICT
- c. State **five** benefits of ICT gadget.

