EVALUATION AND ASSESSMENT

*TABLE OF SPECIFICATION FOR 15(QUESTIONS) ON INTEGRATED SCIENCE JHS 2*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Topic* | *Behaviour* | | | |
|  | *Knowledge* | *Comprehension* | *Application* | *Total* |
| *Mixtures* | *2* | *1* | *1* | *4* |
| *Water* | *1* | *1* | *1* | *3* |
| *Carbon Cycle* | *1* | *1* | *2* | *4* |
| *Weather ,Season and Climate* | *1* | *2* | *1* | *4* |
| *Total* | *5* | *5* | *5* | *15* |

Class :JHS 2

Duration of paper: 20 minutes

Subject :Integrated Science

Answer all question from number 1 to 15 and choose the correct answer from the option given .

1. Select a mixture from the following substances.
2. Water B. Air C. Hydroxide
3. Identify one method used to separate a mixture of nail and sand into its components.
4. Distillation B. Magnetization C. Filtration
5. Solute dissolves in a solvent .Indicate the validity of the statement. It is ……
6. True B. False C. None of the above
7. Applying , which mixture could be separated by using separating funnel?
8. Alcohol mixed with water.
9. Sand and Water
10. Cooking oil mixed with water
11. Identify which one is a soft water ?
12. Rainwater B. Well C. Distilled water
13. Recognize which one is not the property of water?
14. It boils at 100⁰ C .
15. It turns red litmus paper green .
16. Water freezes at 0⁰C.
17. Illustrate which one of following method softens water.
18. Distilling B.Chlorination C.Sedimentation

8.Predict the process whereby plants remove carbon dioxide from the atmosphere.

1. Transpiration B.Photosynthesis C. Respiration

9.Show one way carbon get into the atmosphere?

1. Photosynthesis B. Feeding C. Burning

10.Illustrate which of following disrupt carbon cycle except?

1. Planting B. Greenhouse effect C. Warming

11.Discover which one of following is not a fossil fuel?

1. Sun B. Kerosene C. Petrol

12.Choose which one best fit to explain what weather is.

1. Weather is experienced daily.
2. It is the month-to-month condition of atmosphere.
3. It takes short period of time .
4. I and II only
5. II and III only
6. I and III only
7. Choose one which best describe hard water.
8. Lathers with soap.
9. Used in the tanning industry.
10. Bing about strong bone
11. Select one importance from purification of water.
12. Remove impurities from water
13. Increase dirt in water
14. Germs are not killed
15. Predict a way of preserving water.
16. Chlorination
17. Repair pipes
18. Sedimentation

2.

Akenten Appiah Menka University of Skills Training

and Entrepreneurial Development

College of Technology,

Kumasi

Faculty of Technical Education

Department of Information Technology Education

Academic Year: 2020-2021 Semester: 2

Candidate Index No :\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\_\_\_ \_\_\_\_\_\_\_

Examination Type Continuous Assessment ( Quiz 1)

Paper / Code ITC 124

Paper Title Digital Electronics

Programme B. Sc. (Information Technology) Education

Level: 100 Duration: 30 mn

Lecturer Dr K. A. Dotche

Instructions: Answer all the questions in the question-booklet.

No calculator.

Exchanging or sharing of any material during the exam is prohibited.

Select the most suitable answer

1. Temperature variation is a/an

a. Analog quantity

b. Digital quantity

c. Either Analog or Digital quantity

d. None of these

2. Which number system has a base 16

a. hexadecimal

b. octal

c. Binary

d. decimal

3. What is a digital-to-analog converter?

a. It stores digital data on the computer.

b. It converts alternating current (AC)

into direct current (DC).

c. It converts electrical power into

mechanical power.

d. It takes the digital data from an audio

CD and converts it to a useful form.

4. The following hexadecimal number

(2F.43)16 is equivalent to

a. (57.506)8

b. (36.206)8

c. (35.506)8

d. (57.206)8

5. Convert (312)8 into decimal

a. (201)10

b. (202)10

c. (203)10

d. (204)10

6. Convert 101111110012 into octal

a. 27718 b. 27618

c. 47718 d. 34218

7. What is the addition of the binary number

101001+ 010011=?

a. 010100

b. 111100

c. 000111

d. 101110

8. What is the binary subtraction of 101001 -

010110 =?

a. 010011

b. 100110

c. 011001

d. 010010

9. What is the binary multiplication of 101 \*

111 =?

a. 100011

b. 011001100

c. 011011100

d. 011100011

10. Divide the binary number :

111001 ÷ 1101 and find the remainder

a. 1010

b. 0110

c. 0101

d. 0011

11. 1's complement of 11100101 is

a. 01001110

b. 01011001

c. 00011010

d. 01101100

12. 2's complement of 11001011 is

a. 00100011

b. 10110101

c. 10100011

d. 00110101

13. The decimal value of the signed number

00010111 is

a. 25

b. 23

c. 16

d. 32

14. The decimal value of the signed number

11100101 is

a. -25 c. -23

b. -26 d. -62

15. What does ‘bit’ mean?

a. best digit

b. binary digit

c. better digit

d. biais digit

16. This is not the advantage of digital

system

a. fast

b. light weight

c. immune to noise

d. required discrete inputs (values)

17. What are the bits in a binary system?

a. 0 trough 9

b. 0 through 9 plus A, B, C, D , E F

c. 0 and 1

d. all of the above

18. the conversion of (100001101111)2 in

hexadecimal is

a. N = (96F)16 b. N = (85D)16

c. N = (66A)16 d. N = (86F)16

19. The number N=(ECA)16 in binary is

a. N=(1010 1100 1011)2

b. N=(1011 1101 1010)2

c. N=(1000 1110 1110)2

d. N=(1110 1100 1010)2

20. The base in which the number

N=(34)? is written if it has a value of

N=(22)10

a. 8 c. 7

b. 3 d. 6