THEMI HILL SECONDARY SCHOOL
BIOLOGY REVISION QUESTIONS
FORM TWO 2020.

1. What is nutrition?
2. What is autotrophic nutrition? Name examples of organisms that undergoes this type of nutrition
3. What is heterotrophic nutrition? Name examples of heterotrophic organisms
4. Explain the meaning of holozoic nutrition.
5. Define the terms Parasitism , mutualism, commensalism and symbiosis.
6. Define the term “saprophytes ”and give examples .
7. Outline five (5) importance of nutrition in living things
8. What is digestion?
9. What is absorption?
10. What is assimilation?
11. What is egestion?
12. Define peristalsis.
13. What is balanced diet?
14. Mention the food substrate that constitute a balanced diet.
15. Outline (5) significance of water in the human body.
16. What are the functions of protein in the body?
17. What are the functions of carbohydrates in the body?
18. Outline the functions of lipids in the body of a mammal.
19. Mention the types of food recommended for people with constipation?
20. What are the importance of studying balanced diet in a real life?
21. Write any three factors which contribute to lack of balanced diet among children.
22. Explain nutritional requirement for old age people.
23. Explain why workers who most of the time work while seated need moderate amount of carbohydrates in their diet.
24. Explain why lactant mothers are advised to breast feed their babies during the first days.
25. Explain the causes, symptoms, effect and control measures of kwashiorkor.
26. Explain the causes , symptoms , affects and control measures of marasmus.

27. Explain the main causes of neuseria nervosa.
28. How do you differentiate child suffering from kwashiorkor from a child suffering from marasmus? Give four points.
29. How would you prevent yourself from being obese?
30. Draw a well labelled diagram of human digestive system.
31. Identify parts of the human digestive system.
32. In which part of mammalian digestive system does digestion of the following begin?
    I. Fats / oil
    II. Protein
    III. Starch
33. What is the role of digestive system?
34. Describe the Alimentary canal of the human body
35. Describe the digestion of starch in the mouth.
36. Trypsin acts at alkaline pH. What provides this alkalinity?
37. What are the functions of stomach?
38. Name (3) functions of hydrochloric acid (HCL) in digestion.
39. Describe the digestion of proteins in the alimentary canal of an adult human being.
40. Mention the substances that protein digesting enzymes digest and the products of their action.
41. The enzymes pepsin and trypsin are secreted as inactive precursor. What are the names of the precursor?
42. Explain why proteolytic enzymes in the gut digest dietary proteins but don't digest the wall of the gut.
43. Bile juice contain no enzymes yet it is important for digestion. Why?
44. What is the site of fat digestion in human?
45. Mention the end products of fat digestion.
46. Name the enzyme that digest fats
47. Name the enzymes of the pancreatic juice, the substrate they digest and their products of their digestion action.
48. What is the role of roughage in the diet?
49. Describe the digestion of carbohydrates in various parts of alimentary canal.
50. Distinguish between villi and microvilli.
51. Explain why if you stand on your head, it is still possible to swallow food.
52. Explain why liver damages leads to impaired digestion of fats.

53. State any three functions of the mucus which is secreted along the wall of the alimentary canal.
54. Explain why digestion of starch stops shortly after food enters the stomach.
55. Suppose during an operation a patients removed duodenum is removed, what problems would the patient face?
56. Explain why we should not take an excessive amount of water during eating process.
57. Explain why Vitamins B and C need to be taken regularly.
58. Doto bought a Kilogram each of beans, potatoes and coconuts. She also bought oranges and green vegetables.
    i. Mention the food nutrients found in each food substances she bought
    ii. Explain the functions of each nutrient to the body.
59. Name food substrate that is digested both in alkalinity and acidic media and the end product of digestion action.
60. Name the enzymes present in the intestinal juice and their role.
61. Name two nutrients that are absorbed in the mammalian gut without chemical reaction.
62. Describe the absorption of digested food in mammals
63. What is the first part of the small intestine.
64. Give two (2) major function s of the small intestine.
65. What are the adaptations of villi to it's function?
66. In what ways is mammalian small intestine adapted to it's function?
67. Compare the human digestive system with that of other herbivorous animals.
68. Ruminants can digest cellulose, human beings cannot explain
69. Outline common disorders and diseases of the human digestive system
70. Explain causes, symptoms, effects and control measures of heartburn.
71. Explain causes, symptoms , effects and control measures of ulcers.
72. Mention essential mineral elements in plant nutrition
73. Explain the roles of essential elements in plant nutrition.
74. Define photosynthesis.
75. List down the end products of photosynthesis process.
76. Name three conditions necessary for photosynthesis
77. Mention and define the two stages of photosynthesis.
78. What is photolysis?

79. Outline (5) importance of photosynthesis in the real life situation
80. In what ways is the leaf adapted to it's function?
81. Explain the factors that affect the rate of photosynthesis.
82. Why does leaving a plant in a dark for 48 hours results in destarching of the leaves?
83. Explain what happens to glucose formed by photosynthesis in a dicotyledonous leaf.
84. What are essential amino acids?
85. What are non essential amino acids?
86. What is food processing, food preservation and food storage
87. Explain briefly (4) importance of food preservation.
88. Mention various methods of food processing, preservation and storage
89. Differentiate between traditional and modern methods of processing preserving and storing food
90. Elaborate any three traditional and three modern methods used in food processing, preservation and storage.
91. Explain a method/ methods you would use to preserve the following foods.
    a. Fresh sardines
    b. Fresh sweet potatoes
    c. Fresh pumpkin leaves
92. A person with a deficiency of vitamin C is likely to become a victim of……
93. A food sample which was tested by boiling with Benedict's or Fehling's solution gave an orange precipitate. This showed that the food sample contained… ……
94. A secretion which contains enzymes that digest proteins and carbohydrates is known as……
95. Nutritional requirements in adult do not depend on weather conditions…..(TRUE/FALSE)
96. Amylase coagulates the milk protein casein (TRUE/FALSE)
97. Marasmus results from the dietary deficiency of protein (TRUE/FALSE)
98. Pancreatic amylase hydrolyses protein to amino acid (TRUE/FALSE)
99. Sucrose catalyzes the hydrolysis of sucrose to glucose and fructose….(TRUE/FALSE)
100. Cooking is the best method of preservation and storage for all types of food ……(TRUE/FALSE)
101. A brick red precipitate is formed when a bean seed extract is boiled

with iodine…(TRUE/FALSE)

102. A vein which transports digested food from the ileum to the liver…..
103. Food sample A turned blue- black when mixed with iodine solution. This concludes that sample A contained….
104. Deficiency diseases caused by prolonged lack of iron and iodine in human diet respectively….
105. The part of the digestive system where most absorption of the end products of digestion occurs…
106. Bile is made in…….and stored in……..and its function is……
107. Absorption of food takes place in the …
108. ……..is a semi digested food and …….is a fully digested food in intestine.
109. A method of preservation which involves heating and cooling is……
110. ……..is the method of food preservation in which food is heated at very high temperatures.
111. A disaccharide found in milk is called…
112. The part of the cell structure which carries out photosynthesis is…..
113. A vitamin that helps you to read properly by improving your vision…….....
114. A nutritional disorder whose one of the symptoms is loose or wrinkled skin-folds hanging over the buttocks and the armpit… ……
115. Marasmus is caused by lack of food mainly…….
116. When you drink milk, it will be coagulated by an enzyme called …….to form…..
117. malnutrition diseases
118. A leaf pore which allows gases to enter and leave the leaf is known as….
119. ……is a traditional method of preserving food in which food is kept in the sun to lose its water
120. ……..is caused by lack of roughage in the diet.
121. If you eat eggs, they will start being digested in the ….
122. Type of teeth used for grinding and (rushing food are known as…..
123. Write an essay on kwashiorkor using the following guidelines
    i. Causes
    ii. Symptoms
    iii. Methods of prevention
124. Write an essay on food preservation using the following guidelines
    - Meaning of food preservation

- Methods used in food preservation
- Examples of food preserved in each method.

125. Give the name of the storage organs for the following plants (I) Cassava (2) Irish potato (3) Onion (4) Sweet potatoes (5) Carrot