BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
BIOLOGY

Instructions:

- Answer **all** questions.
- Write your responses clearly in blue or black ink, and use a pencil for all biological drawings.

SHORT ANSWER QUESTIONS

1. When two blood vessels are cut accidentally during surgery, blood flows out with high pressure in one and low pressure in the other.
   i. Identify the two vessels.
   ii. Explain why one experiences high pressure while the other experiences low pressure.

2. Differentiate between a prokaryotic cell and a eukaryotic cell, providing two structural features for each.

3. State the main functions of the following plant cell organelles:

   (a) Nucleus (b) Chloroplast (c) Vacuole

4. Form two students classified a set of specimens into groups based on observable external features.

   (a) What type of classification system groups organisms primarily based on readily observable features rather than evolutionary relationships?

   (b) Give two advantages of using such a classification system.

5. Outline four major rules observed when writing scientific names under the Binomial Nomenclature system.

7. Define the term **balanced diet** and state two reasons why a balanced diet must contain adequate protein.

8. Explain the biological importance of water in the human body by giving four points.

9. A business person has a height of 2.0 m and a mass of 240 kg. Calculate their Body Mass Index (BMI) and describe their body condition based on standard health classifications.

10. Outline four preventive measures against the transmission and spread of malaria in tropical communities.

11. State four environmental or behavioral factors that can negatively affect human body immunity.

12. Distinguish between aerobic respiration and anaerobic respiration in animals, giving two distinct points of comparison.

13. State the specific respiratory surfaces used by the following organisms for gaseous exchange:

    (a) Mammals

    (b) Fish

    (c) Amoeba

    (d) Spiders

14. Give four key structural characteristics that make a respiratory surface efficient for gaseous exchange.

15. A student accidentally cut two blood vessels during a dissection practical; one bled with high pressure and the other with low pressure. Identify the two vessels and state two differences in their structural features.

17. Explain why the left ventricle of the mammalian heart has a much thicker and more muscular wall than the right ventricle.

18. State the specific functions of the following ecological and laboratory tools:

    (a) Pooter

    (b) Quadrat.

    (c) Sweep net

19. Explain three reasons why a biology laboratory should have its doors opening outward and be equipped with a working fire extinguisher.

20. Outline four practical benefits of learning Biology as a subject in our daily lives and communities.

ANSWER BOTH ESSAY PROMPTS BASED ON CORE BIOLOGICAL PRINCIPLES.

20. Write an essay on photosynthesis detailing its biological meaning, three essential environmental conditions required for the process to occur, and three reasons why photosynthesis is vital to life on Earth.

21. "Transpiration is a vital process in plants regulated by both internal plant features and external environmental factors." Discuss this statement using six biological facts.

BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
BUSINESS STUDIES

1. Visit local market and observe how sellers attract buyers. Pay close attention to their actions words and techniques. After the market visit. Reflect on your experience and answer this question: how did the sellers try to catch the attention of buyers and convince them to buy their products?
2. Set up any business in your community. Where would you place your business and why? How would you attract people to buy your product?
3. Implement your Form Two business idea in your local context. Then answer the following questions:
   (i) Why is it important for people to know about your business?
   (ii) How will marketing help your business grow?
   (iii) How will understanding your customers' help you sell more?
4. Visit several small businesses in your community, interview the operators or business owners about marketing strategies they use and ask why those strategies are crucial for their business's success
5. Refer to Form Two business idea, or think of a new one that could work in your community. Then, answer the following questions:
   i. What exactly will you sell or offer to the market? What makes it special or different from anything else in our area?
   ii. How much will you charge? Why did you pick that price?
   iii. Where will you sell your goods or services? How will people get or access them from you?
   iv. How will you inform or communicate to people about your business? What will your sign or logo or label look like?
   v. Who will help you run your business? How will you ensure they are friendly and helpful to customers and their needs?
   vi. What steps will you take to get your product to the customer? How will you make it easy for them?
6. Visit a nearby market in your community and engage with business to ask about the methods they use to set prices for their products.
7. Visit a local market business area in your community.
   (i) Interview at least three business owners about the promotional methods they Use to attract customers and why?
   (ii) Ask them about the effectiveness of the methods in use and what challenges they face in using them.
   (iii) Based on what you learned from business owners in your community. What promotional methods do you plan to use for your business idea and Why?

8. Imagine you live in a rural village. You have noticed that many people, especially children, spend significant time collecting water from distant sources. This often

   Interferes with their education plan and other essential activities.

   (a) What problem do you notice?

   (b) What are potential solution and potential benefits to the community?

9. Explain different documents used to manage inventory and their importance.

10. Visit any nearby warehouse and investigate what type of warehouse it is as well as Activities conducted, then;
    (a) Write down the information you have gathered.

    (b) Compare the information you have gathered with what you have loomed.

    (c) Identify new things you have learned from your visit.

11. **THINK:** Business without a storage facility.

BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
COMPUTER SCIENCE

Answer all questions.

1. (a) A school secretary needs to type letters, create budget reports, and print student reports.
   Identify four computer hardware devices categorized by their function (Input, Output, Primary Storage, Secondary Storage) that will help the secretary complete these tasks.

   (b) Explain the difference between hardware and software to a beginner using the secretary's workstation as an example.

2. (a) Juma left his desktop computer running during a severe thunderstorm. The power suddenly cut off and restored abruptly, causing his computer system to fail to turn on.

   i. Identify the physical factor that damaged Juma's computer.
   ii. Recommend two electrical protection devices Juma should install to prevent this problem in the future.

   (b) Describe two routine maintenance habits Juma should adopt to keep his computer hardware physically safe.

3. (a) A computer programmer is tasked with developing an automated system to calculate employee salaries. Before writing the code, the programmer needs to plan the logic.

   (i) Give two reasons why writing an algorithm is necessary before coding.
   (ii) Describe the function of two flowchart symbols the programmer would use to display the input of salary data and the decision for tax deduction.

   (b) Give two disadvantages of relying solely on flowcharts for complex program designs.

4. (a) Construct a pseudocode algorithm for a system at a school library that prompts a student to enter the number of days a book is overdue. If the days are greater than 7, the system displays "Fine Required"; otherwise, it displays "No Fine".

   (b) Explain two control structures (e.g., sequence, selection, iteration) applied in your pseudocode logic above.

5. (a) A graphic designer stored all her project files on a single internal hard drive. One morning, the drive crashed, and all project data was lost.
   (i) Identify two secondary storage devices she could have used as backup destinations.
   (ii) Explain two data protection measures she should implement to prevent future data loss.

   (b) Distinguish between primary storage and secondary storage in terms of data volatility and capacity.

6. (a) A school administration wants to block unauthorized access to confidential student results stored on an administrative computer connected to the internet. (i) Explain how creating strong passwords can improve the security of these files. (ii) Explain the importance of data encryption when transferring these results over the internet.
   (b) Mention two consequences of poor data security in an organization.

7. (a) Neema wants to search for past examination papers online and download them to her

computer.

i. Explain the difference between a web browser and a search engine in the context of Neema's task.
ii. Name two common web browsers Neema can use.

(b) Explain two safety measures Neema should take while downloading files from the internet to protect her computer against malware.

8. (a) An IT assistant notices that a computer in the laboratory has become very slow when opening saved files, even though the hard drive is not full.
   i. Identify the utility software process required to reorganize scattered data blocks and speed up file access.
   ii. Differentiate between system software and application software.

   (b) Describe two core functions of an operating system in managing system resources.

9. (a) Construct a flowchart diagram that takes a student's numerical score (0 to 100), checks whether the score is greater than or equal to 50, and outputs "PASS" if true or "FAIL" if false.

   (b) State two benefits of using flowcharts to communicate program logic to non-programmers.

10. (a) A business owner wants to transition from keeping manual paper sales registers to an electronic system on a computer.
    i. Identify two computer application software types suitable for managing sales records and calculating profits.
    ii. State two advantages of using computer software over manual record-keeping methods.

    (b) Explain two ethical issues related to software usage that the business owner must consider when installing new software.

11. (a) Define the term algorithm as used in computer problem-solving.
    (b) Explain the following control structures used in algorithms:

    i) Sequence (ii) Selection (iii) Iteration

12. (a) What is a computer virus? (b) State two common indicators that a computer system has been infected by malware.

    (b) Explain two methods used to prevent virus infections on personal computers.

13. (a) Define the term computer peripheral device. (b) Classify the following items as either Input, Output, or Storage devices: (i) Barcode Reader (ii) Dot Matrix Printer (iii) Solid State Drive (SSD) (iv) Touchscreen Monitor

14. (a) State the primary difference between volatile and non-volatile memory. (b) Identify the main function of each of the following components of the Central Processing Unit (CPU): (i) Arithmetic Logic Unit (ALU) (ii) Control Unit (CU)

15. (a) What is an Operating System? (b) Name two popular operating systems designed for

personal computers and two designed for mobile devices. (c) State two user interface types provided by modern operating systems.

BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
ENGLISH LANGAUGE

1. How dangerous are Mass Media to the youths? Explain six points citing vivid examples from Tanzanian youths.
2. Explain how students can use Artificial Intelligence responsibly to improve their academic performance.
3. Design an announcement to be delivered at the parade by the head prefect to the students about observing time appropriately with not more than 150 words.
4. Assess the components of an email and for each component state its importance.
5. With clear examples, explain six rules of changing direct speech to indirect speech.
6. Explain with vivid examples five things that prevent many Tanzanian students fail to speak English language
7. By giving examples per each point, explain six rules of question tags.
8. 'AI is the double-edged sword to the students'. How far is this statement true? Justify your answer by providing six points
9. Imagine you are listening to a teacher in the class. Outline 5 things that you must consider in order to fully understand the teacher's lesson.
10. Explain 5 changes that occur during passivization. Provide examples to verify your point.
11. Write a composition describing six major cross cutting issues facing the world currently particularly Tanzania that people must be aware about them and take necessarily measures upon them.
12. How potential is internet to the students especially during holiday? Describe using 6 points by giving relevant examples.
13. In which ways will you apply simple present tense in your daily conversations? Show 5 ways with relevant examples.
14. Explain three types of conditional sentences and show how they are used in English language.
15. With clear examples, define and explain the following concepts as used in English language.
    a. Coordinators
    b. Determiners
    c. Quantifiers
    d. Non verbal cues
    e. Affixation
    f. Cohesive devices
    g. Stress
    h. Modal auxiliary verbs

i. Adverbs
j. Sentence

BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
HISTORY

Instruction; answer all questions.

1. Arrange the following sentences in a chronological order by writing their Roman below numbers in the table provided:
   (i) Regular Trade contacts between East Africa and the middle East Began in the 8th century
   (ii) Effective Omani Control was established during the second half of the 19th century
   (iii) Trade contacts led to the growth of East African coastal city states
   (iv) Later this prosperity was disturbed by the Portuguese invasion
   (v) In 1698 the Omani Sultanate to defeat them.
2. Sort the explanation in the box about the features of nomadic and sedentary pastoralism and write the answer in the space provided.

Moved from one place to another, war like people based on classes, lived in the settled life, did not occurred in Africa, located near water resources.

Nomadic pastoralism.	Sedentary pastoralism.
(i)_____	(i)_____
(ii)_____	(ii)_____

1. Sort the explanation in the box into the characteristics of human during the early Atone Age and Iron Age and write the answer in the space provided.

Ended slave trade, involved in trade, lived in caves, gathered fruits, practiced smelting, discovered fire.

Early stone Age.	Middle stone Age.
(i)_____	(i)_____
(ii)_____	(ii)_____

Shortly answer this questions in **not less than three lines** of explanation.

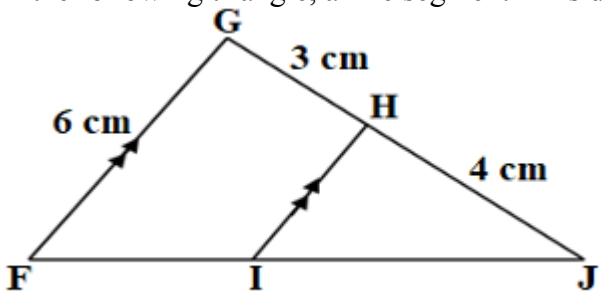
2. Explain five factors for the delay of the abolition of slave trade in East African coast.
3. Mention five ways through which people become slaves during slavery mode of production in pre-colonial Africa.
4. Explain five effects of Portuguese rule in East African coast.
5. What were characteristics of pre-colonial African education? Explain five of them.

ESSAY.

6. At different times South Africa experienced intruders who took control over the century. 1652 Dutch East India Company (DEIC) established settlement at the table bay under Jan van Riebeeeck and most of Dutch's family arrived in South Africa. Why did the settle in South Africa. Six points.

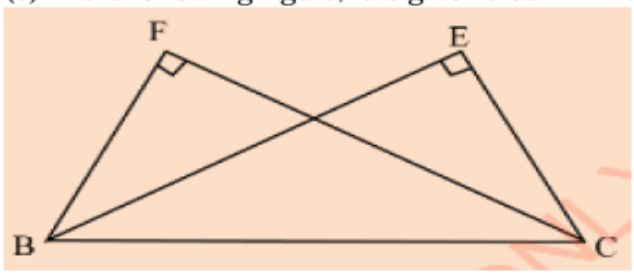
BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
MATHEMATICS

1. There a 1000 students at Baobab secondary school. Out of these, 680 students like football, 350 students like volleyball, and 100 students like neither game. Let F and V be sets of those who like football and volleyball, respectively. Use a Venn diagram to find the number of students who like;
   i. Both games.
   ii. Either football or volleyball.
   iii. Football only.
   iv. Volleyball but not football.
2. a) A plane flies 7 km due north and then 24 km due east. (i) Sketch the journey. (ii) How far is the plane from its starting point when it reaches the end of its journey?
   b) A flagstaff is secured by a straight rope which is 20 metre long. The angle between the rope and the flagstaff is 45°. Evaluate the height of the flagstaff. Leave the answer in surd form.
3. (a) In the following triangle, a line segment HI is drawn parallel to GF.



   (i) Prove that triangle HIJ is similar to triangle GFJ.
   (ii) (ii) What is the length of a line segment HI?

(b) In the following figure, it is given that $\overline{BF} = \overline{CE}$, prove that $\overline{CF} = \overline{BE}$



4. (a) Find the value of x if $5\log 4(x\ 10)=125$.

   (b) Simplify $(\sqrt{3}+\sqrt{2}\ )\div(2\sqrt{3}-\sqrt{2}\ )$ by rationalizing the denominator.

5. a) A man and a woman share a bingo prize of Tsh. 2,000,000 between them in the ratio 1:4. The woman shares her part between herself, her mother, and her daughter in the ratio 2:1:1. How much does her daughter receive?

b) If a shirt is sold for Tsh. 27,000, the shopkeeper incurs a loss of 10%. What should his selling price be to gain a profit of 10%?

6. (a) Use the elimination method to solve the following system of linear equations:

$24x+5y=1{,}000$

$18x+10y=950$

(b) The area of a larger square garden exceeds twice that of a smaller square garden by 56. If the difference between their perimeters is 24 metres, find the length of one side of each garden.

7. (a) The distance from Asteria's home to school is 2 km 52 m. She goes to school in the morning and returns in the evening every day. What distance does she cover from Monday to Friday?

(b) Given the number 0.004040. Write the number:

(i) Correct to three (3) significant figures

(ii) Correct to three (3) decimal places

(iii)In standard form

8. Express each of the following in exponential form.

(a) $\log_2 8 = 3$
(b) $\log_2 64 = 6$
(c) $\log_4 1024 = 5$
(d) $\log_{10} 0.001 = -3$

9.

. Find the values of each of the following:

(a) $\log_{2\sqrt{3}} 1728$
(b) $\log_{2.25} 0.\overline{4}$
(c) $\log_{(\sqrt{2}+\sqrt{3})}(5+2\sqrt{6})$
(d) $\log_{(5+2\sqrt{6})}(5-2\sqrt{6})$

10. Solve the following simultaneous logarithmic equations.

$$\begin{cases} \log_2(x-1) = 1+\log_2 y \\ 2\log_3 x = 2+\log_3 y \end{cases}$$

BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
PHYSICS

1. Briefly explain the following: (a) capacitor (b) capacitance
2. A 3 μF capacitor has a p.d of 12 V. Determine the total charge on the capacitor
3. If a cell of voltage 1.5 V is used to charge a capacitor, calculate the capacitance of the capacitor when the charge is 90 C.
4. A 1000 μF capacitor has been charged to a p.d of 25 V. What is the charge on the plate of the capacitor?
5. The p.d across the terminals of a cell is 1.1 V when a current of 0.20 A is being drawn from the cell. If the p.d across the cell is 1.3 V when a current of 0.10 A is being drawn, determine the: (a) internal resistance of the cell (b) cell's e.m.f
6. Differentiate between variable resistors and fixed resistors. Give three examples of each.
7. Distinguish between electric current and the convectional current
8. Briefly explain what is meant by a coulomb of electricity.
9. (a) Explain four ways in which magnets are used in daily life.
   (b) In which part of a fridge or a microwave oven do magnetic strips installed? Why?
10. How can you store magnets for effective and durable use of their magnetism?
11. An object 5.0 cm high is placed 35 cm away from a concave mirror of focal length 15 cm. By drawing a ray diagram, determine the position, size and nature of the formed image.
12. An object, 5 cm high, is placed 10 cm away from a convex mirror of focal length 15 cm. By drawing a suitable ray diagram, determine: (a) the position, size and nature of the image formed. (b) the magnification of the image.
13. What is dispersion?
14. How are rainbows formed?
15. Why do clouds appear white?
16. Explain why an object which appears yellow in day light, appears red when illuminated with red light and black when illuminated with a blue light?
17. What is the difference between secondary colour and complementary colour in light?

SHULE YA SEKONDARI BAOBAB
KIFURUSHI CHA NYUMBANI KWA KIDATO CHA PILI
KISWAHILI

Maelekezo:

Tumia daftari la mazoezi (msomi)

1. Fafanua vipashio vifuatavyo vya kimuundo na kila kipashio ufafanue aina zake kwa mifano.
   a) Neno
   b) Kirai
   c) Kishazi
   d) Sentensi.

   NB: Kila kipashio fafanua aina zake kwa mifano.

2. Eleza tofauti tano zilizopo kati ya lugha ya maandishi na lugha ya mazungumzo.
3. Andika mazungumzo mafupi yanayozingatia mtindo mahususi wa lugha wa maeneo yafuatayo.
   a) Kituo cha polisi
   b) Michezoni
   c) Shuleni
   d) Jeshini
   e) Dukani
   f) Kwenye nyumba za ibada
4. Bainisha dhima za rejesta katika mazungumzo.
5. Andika kumbukumbu za kikao cha darasa lako kilichofanyika siku ya kufunga shule.
6. Andika insha za wasifu ya kisanaa kuhusu shule yako.

NB: JARADIA DAFTARI LAKO UKIWA NYUMBANI

SHULE YA SEKONDARI BAOBAB
KIFURUSHI CHA NYUMBANI KWA KIDATO CHA PILI
ELIMU YA DINI YA KIISLAMU

1. Ni kwa namna gani umbile la mwanadamu linafanya ahitajie kuwa na dini?
2. Onesha namna dini inavyoweza kuisaidia kuleta haki katika jamii.
3. Tathmini umuhimu wa dini katika kushughulikia changamoto za kijamii kama dhulma kwa kujibu wa uislamu
4. Tofautisha mtazamo wa Kiislamu na wa Kikafiri kuhusu asili na kazi ya dini , kisha eleza jinsi tofauti iliyopo kati ya dini ya Kiislamu, Kikafiri , Ushirtikina na Utawa.
5. Kwa kutumia mwonekano wa kalamu ndani ya glasi yenye maji ,Eleza kwa ufupi udhaifu wa milango ya fahamu katika kutambua ukweli wa jambo.
6. Chambua hoja tano zinazothibitisha kuwa kumuamini Allah (sw) si suala la kurithi au kufuata mkumbo.
7. Mwanafunzi mwenye Imani ya kweli juu ya kuwepo kwa Allah (sw) huoinesha sifa gani katika maisha yake ya Shule na nje ya Shule ? Toa mifano mitatu katika ufafanuzi wako.
8. Eleza hatua mbili za kushushwa kwa Qur’an
9. Eleza juu ya hatua mbali mbali zilizotumika katika kuhifadhiwa kwa Qur’an wakatui wa Mtume (saw) .
10. Pamoja na baadhi ya Waislamu kutoa Zakat lakini lengo la ibada hiyo halifikiwi, undhani ni kwa nini ?
11. Orodhesha mali zinazojuzu kutolewa Zakat na Nisaab zake.
12. Ainisha sunnah tano zinazoambatana na funga ya Ramadhani
13. Orodhesha haki tano za watoto kwa wazazi.
14. Uislamu umeweka mwongozo wa kina kuhusu sifa za kuzingatia kwa mwanamume katika kuchagua mchumba , Fafanua sifa hizo.

15. Wazazi ni nguzo muhimu katika maisha ya mtoto , na utiifu kwao ni sehemu ya maadili mema yanayofundishwa mashuleni, Elezea juu ya faida mbali mbali za kuwatii wazazi katika maisha ya kila siku.

BAOBAB SECONDARY SCHOOL
FORM TWO HOLIDAY PACKAGE
BIBLE KNOWLEDGE

1. What were the three characteristics of the Passover lamb or meal?
   a) Mention two store cities built by Hebrews in Egypt
   b) When Moses delayed to come down, what did Israelites do

2. "Take the Census of all the congregation of the children of Israel, by their families, by their fathers' houses, according to the number of the names, every male, by their polls;" Numbers 1:2
   (i) From which age were supposed to counted
   (ii) What was the purpose of that census?
   (iii)Mention two importance of census in our community.

3. God said to Abraham "And I will make my covenant between me and thee, and will multiply thee exceedingly"
   a) What is covenant
   b) Mention two types of covenant
      (i) What was the sign of Abraham covenant with God?
      (ii) What was the sign of the covenant between Noah and God

4. a) In each of the following stations state the events occurred when the Hebrews travel to the promised land
   (i) At Marah in the wilderness of Shur (Exodus 15:22-26)
   (ii) At Elim (Exodus 15:27)
   (iii)In the Wilderness of Sin (Exodus 16)
   b) Mention two women who are mentioned in the book of Judges as deliverer of Israelites

5. a) Explain how the city of Jericho was taken by Israelites.
   b) Mention a person and things which were taken by Israelites.
   c) Mention two groups of Ten Commandments of God. Exodus 20

6. Write short notes on the following items (**4marks each)**
   (i) Mount Nebo
   (ii) Gilgal
   (iii) Mount Moriah
   (iv)Mount Ararat
   (v) Moses

7. Dinah, the daughter of Jacob and Leah, went to visit some of the women of the city. She was seen by Hamor's son Shechem, the leader of the Hivites, who grabbed and raped her. Shechem was much attracted to Dinah… (Genesis 31:1-4). Basing on the story, explain the consequences of rape in the society today.

ORA ET LABORA
"Make me to know your ways, O lord; teach me your paths" PSALMS 25:4