

The Ambassadors College, Ota

PRE – SS 1

Third Term

Mid – Term Holiday Assignment

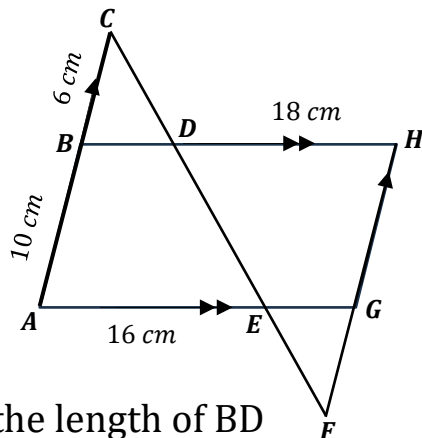
HOLIDAY ASSIGNMENT

2025/2026 Academic Session

Name: _____

MATHEMATICS

1. In the diagram, ABC , $CDEF$, FGH , BDH and AEG are straight lines. BH is parallel to AG , AC is parallel to FH , $AB = 10\text{cm}$, $BC = 6\text{cm}$, $AE = 16\text{cm}$ and $DH = 18\text{cm}$.



- (a) Calculate the length of BD
- (b) Find the length of EG and of FH
2. If p is directly proportional to q .
- (a) Find the relationship between p and q if $p = 16$ when $q = 12$
- (b) Find the value of p when $q = 24$
- (a) Construct ΔPQR such that $|PQ| = 6\text{cm}$, $|QR| = 6\text{cm}$ and $\hat{P}QR = 75^\circ$
- 4.3.
- (b) If the bisector of \hat{R} meets the perpendicular bisector of \overline{PR} at T , measure $|QT|$.

ENGLISH LANGUAGE

Answer only one question from this section. Your letter should be about 350 words.

1. Your younger sister in SSII has written for your advice on what subjects she should study for the SSCE. As someone who knows her ability in the different subjects, write a letter to her giving advice on why she should choose certain subjects rather than others. There has been an outbreak of an epidemic in your area.

Mid – Term Holiday Assignment

2. Write a story that ends with “I should have known that this night would not be like other nights”
3. Write a letter to the Commissioner for Agriculture in your state deploring the low level of food production in the state and suggesting measures which the government should take to ensure that there is sufficient food for all.
4. Your friend mentioned in their last letter that “I don’t know what to do about my upcoming examination. I think I am going to fail.” Write a letter of encouragement and suggest at least three tips on how to beat examination jitters.

BASIC SCIENCE

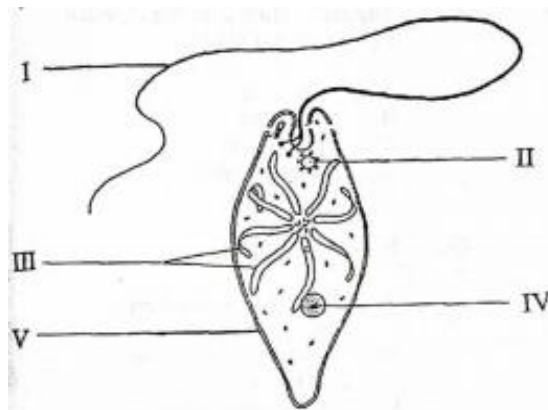
BIOLOGY

1. a. Name the scientific name of the following organisms:
 - i. Lion
 - ii. Rice
 - iii. Dog
 - iv. Orange4marks
- b. Complete the table below. 4marks

Organism	Unicellular /Multicellular Organism	Prokaryotic cell/ Eukaryotic cell	Reproduction
Paramecium			
Rhizopus			
Fern			
Mushroom			

2. Euglena is a spindle-shaped aquatic unicellular organism found in fresh water. Name the part labelled I-IV. 4marks

Mid – Term Holiday Assignment



- a. State the function the part labelled 1, II, III, IV. 4marks
- b. Outline three characteristics of pteridophytes. 3marks

CHEMISTRY

1. State and explain five laboratory apparatus
2. Do a research on electrolysis and write down your findings.

PHYSICS

1.
 - a. Define the term “Motion”
 - b. State and explain the types of forces that you know
2.
 - a. A motorcyclist moving with an initial velocity of **5 m/s** accelerates uniformly at **2 m/s²** for **10 seconds**.
Calculate:
 - i) The final velocity of the motorcyclist.
 - ii) The distance travelled during the 10 seconds.
 - b. A block of mass **8 kg** rests on a rough plane inclined at **30°** to the horizontal. The coefficient of friction between the block and the plane is **0.25**.
Calculate:
 - i) The normal reaction of the plane on the block.
 - ii) The frictional force acting on the block.
 - iii) The resultant force acting on the block down the plane.