SENIUOR QUESTION OLMPIAMD PRACTICAL

You are provided with specimens A and B.

(a)Using a hand lens examine specimen B and make a clear large labeled diagram

1. Measure the length of spacemen B………………………………………………………. cm
2. Calculate its magnification

Magnification =

Magnification = ………………………………………….. (8)

( b)What three observable features are differentiate specimen A from B

(i)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(ii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(3)

( C) Specimens A and B are photosynthetic organs, state three special features that makes specimen B suitable to carry out that function.

(i)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(ii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_( 3)

1. Specimens A and B were taken from different plants. Identify with two reasons the class of plants where the two specimen were taken from.
2. Specimen A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reason 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reason 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(3)

1. Specimen B:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reason 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reason 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(3)

2. you are provided with spacemen W 12.

Carry out buerate test , emulsion test and a reducing sugar test using the specimen above.

W 1is beurate test, W 2 us emulsion test, W 3 reducing sugar test.

|  |  |  |  |
| --- | --- | --- | --- |
| Category | Method | Observation | Inference |
| W 2 | ……………………………………………  ……………………………………………  ……………………………………………..  ……………………………………… | ………………………………  …………………………….  …………………………….. | ………………………………..  ……………………………….  ……………………………….. |
| W 3 | ……………………………………………..  …………………………………………….  ……………………………………………  ……………………………………………. | ……………………………  …………………………….  ………………………………  ……………………………… | ………………………………..  ……………………………….  ……………………………….  …………………………….. |
| W3 | …………………………………………….  …………………………………………..  ………………………………………….  ………………………………………… | …………………………….  …………………………….  …………………………….  ……………………………. | ………………………………  ………………………………  ………………………………  ………………………………. |

(18)

Give an explanation to justify the observation made to spacemen W3 ……………………………

………………………………………………………………………………………………………………………………………….

…………………………………………………………………………………………………………………………… (2)

GENERAL KNWOLEGE SENIUOR 2013

1. Who was the first Zambian black minister of education?...........................

John mwanakatwe

1. America is to hoolyhood as india is to…………………….

Bollyhood

3.how did the first republican president Dr. Kenneth Kaunda this year 2013?....................

1. ears

4.Is a spider an insect or not? One attempt.

It is not an insect

5. what do we call the structure which grows out of an animals body?

Appendage

6. Homo is a greek word which means ………..

A wise man

7. Zambia has had how many republics?..............

8. Neil Amstrong was the man who first travelled to the Moon and died in the year …………

9.At which stadium in Angola was the opening ceremony of the Africa cup of Nations held

In 2010? 11th November stadium.

10.who was the first UN envoy sent to Syria and later stapped down and non compliance t

To peace talks by both the opposition and the government of Syria.

Koffi Annan

11.Which north African President under went trials while in hospital bed after being rusted

from power.?

Hossein Mubarak

12. Danube river passes through how many countries?

Six

13.What made John the Baptist to be killed?

The promise

14.In which year did Zambia National perish on the coast of Gabon?

1993

15.Which disease results in thebreak down ofalveoli?

Emphysema

16.Which country in the far east was declared as an axis of evil by the former US president Gearge J Bush?

North Korea

17.Winter Kabimba referred to as the state council.What does this mean?

He advisor to the state on legal matters.

18.Zambia played all her games in the 2013 AFCON at the stadium called \_\_\_\_\_\_\_\_\_\_in South Africa.

Mbombela

19.What is the name of currency used in Germany?

Dortchmark

20.What system of government is in United states of America?

Federal system of government

21.Which leader in USSR made policies that made several states to be dismembered from it?

Micheal Gorbachev

22.In which river did the Hindus wash their sins according to their ceremony in 2013 after 12 years of the last religious ceremony?

The Gangi river.

23.When was the University of Zambia opened?

1966

24.What does the term PIN code on a phone stand for?

Personal Identification Number

25.The current Zambian president comes from which district?

Mpika.

26.Which country in southern Africa is still under absolute mornachy?

Swaziland.

27.Who was the promoter of Aster Phiri until her resignation?

Mwamba Antony from exodus tables.

28. Lenshina Lubumba Mulenga was a religious activist .In which District did she comes from?

Chinsali

29.In which was the nation of isreal declared as an independent state?

1948

30.Which Zambian political icon entered politics at the age of 21 and was sent into fereign missions?

Vernon Mwamba.