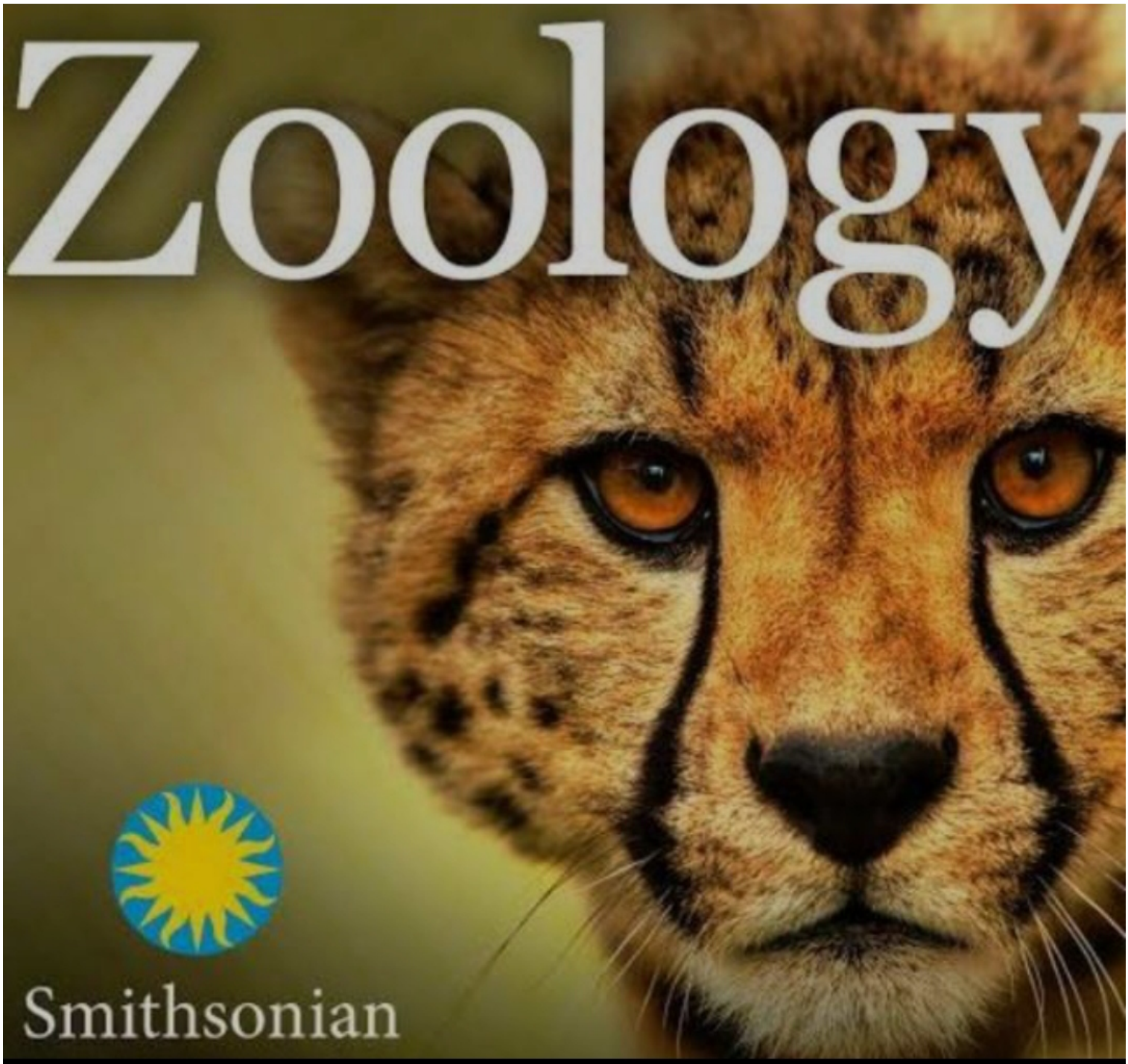
Zoology



Smithsonian

Question # 3 of 10 (Start time: 05:43:57 PM, 29 June 2022) Total Marks: 1

Paraffin wax with _____melting point is used for embedding.

Select the correct option

- ○ Higher ✓
- ○ Constant
- ○ Variable
- ○ Lower

Question # 1 of 10 (Start time: 05:42:17 PM, 29 June 2022) Total Marks: 1

The key feature of fluorescent microscopy is that

Select the correct option

- It employs transmitted rather than reflected light
- It employs reflected rather than transmitted light



Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 05:45:32 PM, 29 June 2022) Total Marks: 1

Who is the father of microtomy?

Select the correct option

- Pythagoras
- None
- Wilhelm His ✔
- Ada lovelace

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Quiz Start Time: 12:44 PM

Question # 6 of 10 (Start time: 12:49:56 PM, 29 June 2022)

Which of the following is used in certain specific histological preparations

Select the correct option

- ○ Chromic acid
- ○ Potassium permanganate
- ○ Potassium dichromate
- ● All of the above

Click to Save Answer & Move to Next Q

Question # 1 of 10 (Start time: 05:42:17 PM, 29 June 2022) Total Marks: 1

The key feature of fluorescent microscopy is that

Select the correct option

- It employs transmitted rather than reflected light
- It employs reflected rather than transmitted light

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Quiz Start Time: 12:44 PM, 29 June 2022

Question # 5 of 10 (Start time: 12:48:01 PM, 29 June 2022)

Total Marks: 1

At - 90 degree, light is passed through a phase shift ring in

Select the correct option

- Neutral phase
- None of these ✔
- Positive phase
- Semi positive phase

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 05:43:03 PM, 29 June 2022) Total Marks: 1

In microtomy method, staining involves?

Select the correct option

- Clearing
- Dehydration
- Section cutting
- Deparaffinization ✓

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 12:52:04 PM, 29 June 2022)

Shadowing is particularly useful in studying

Select the correct option

- ○ Virus morphology
- ○ DNA
- ○ Prokaryotic flagella
- ● All of above

Click to Save Answer & Move t

ZOO101:Quiz 2

Quiz Start Time: 12:44 PM, 29 June 2022

Question # 7 of 10 (Start time: 12:50:36 PM, 29 June 2022)

Total Marks: 1

Which one moves block holder either towards the knife or away from knife is called?

Select the correct option

- ○ Microtome
- ○ Microscope
- ● Coarse handwheel
- ○ Handwheel

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 05:47:58 PM, 29 June 2022) Total Marks: 1

Physical method of fixative include _____.

Select the correct option

- Quick freezing
- Fixation by heating
- Chemical method
- Both a&b

- not sure

Click to Save Answer & Move to Next Question

Time Left sec(s)

ZOO101:Quiz 2

Quiz Start Time: 12:55 PM, 29 June 2022

Question # 1 of 10 (Start time: 12:56:00 PM, 29 June 2022)

Total Marks: 1

The Instrument that used to cut the extremely thin sections (40nm to 500nm) is called

Select the correct option

- ○ Electric charge
- ● Ultra-microtome
- ○ Microscope
- ○ Staining

Click to Save Answer & Move to Next Question

Question # 10 of 10 (Start time: 12:53:26 PM, 29 June 2022) Total Marks:

The first prototype electron microscope, capable of four-hundred-power magnification, was developed in ____.

Select the correct option

- 1950
- 1931
- 1921
- 1831

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2 Quiz Start Time: 12:55 PM, 29 June 2022

Question # 4 of 10 (Start time: 12:58:45 PM, 29 June 2022) Total Marks: 1

Which of the following microtome produces extremely thin sections?

Select the correct option

- ○ Rotary rocking microtome
- ○ Sliding microtome
- ● Ultra microtome
- ○ Vibrating microtome

Click to Save Answer & Move to Next Question

Time Left sec(s)

ZOO101:Quiz 2

Quiz Start Time: 12:55 PM, 29 June 2022

Question # 9 of 10 (Start time: 01:02:52 PM, 29 June 2022)

Total Marks: 1

In which year, Schwartz and Cantor developed pulsed-field gel?

Select the correct option

- 1989
- 1984
- 1948
- 1849

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Quiz Start Time: 12:55

Question # 3 of 10 (Start time: 12:57:57 PM, 29 June 2022)

To obtain maximum resolution of DNA fragments the speed of Agarose gel should be at

Select the correct option

- ○ 3-8 V/cm
- ○ 4-8 V/cm
- ● 5-8 V/cm
- ○ 2-4 V/cm

Click to Save Answer & Move to N

Question # 7 of 10 (Start time: 12:59:52 PM, 29 June 2022)

SYBR Gold method can detect ds DNA in Agarose gel up to

Select the correct option

- ○ 10pg
- ● <20pg
- ○ 20pg
- ○ >20pg

Click to Save Answer & Move to N

12:58 PM
Quiz
quiz.vu.edu.pk

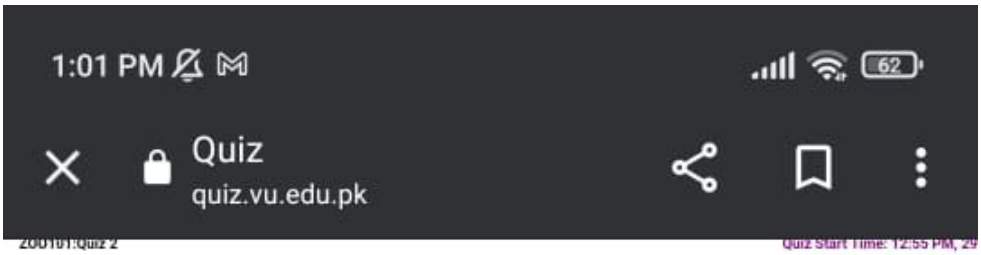
Question # 6 of 10 (Start time: 12:59:26 PM, 29 June 2022) Total M

The smaller is the wavelength of light (λ)

Select the correct option

- (●) The greater is its ability to resolve the points on the object
- ( ) The smaller is its ability to resolve the points on the object

Click to Save Answer & Move to Next Question



Question # 8 of 10 (Start time: 01:01:15 PM, 29 June 2022)

Explosive chemical is usually accompanied by the production of _____.

Select the correct option

- ○ Heat
- ○ Light
- ● All of the above
- ○ Sound & pressure

Click to Save Answer & Move to Next Ques

12:50 PM
Quiz
quiz.vu.edu.pk

uestion # 8 of 10 (Start time: 12:51:11 PM, 29 June 2022)

The effect of absence of ions on the migration of DNA is

elect the correct option

- Fast
- None of the above
- Remains constant
- Slow

Click to Save Answer & Move to N

12:56 PM
Quiz
quiz.vu.edu.pk

Question # 2 of 10 (Start time: 12:57:11 PM, 29 June 2022)

Phase- contrast microscopy was first described in__.

Select the correct option

- 1933
- 1935
- 1934
- 1936

Click to Save Answer & Move t

12:43 PM

Quiz
quiz.vu.edu.pk

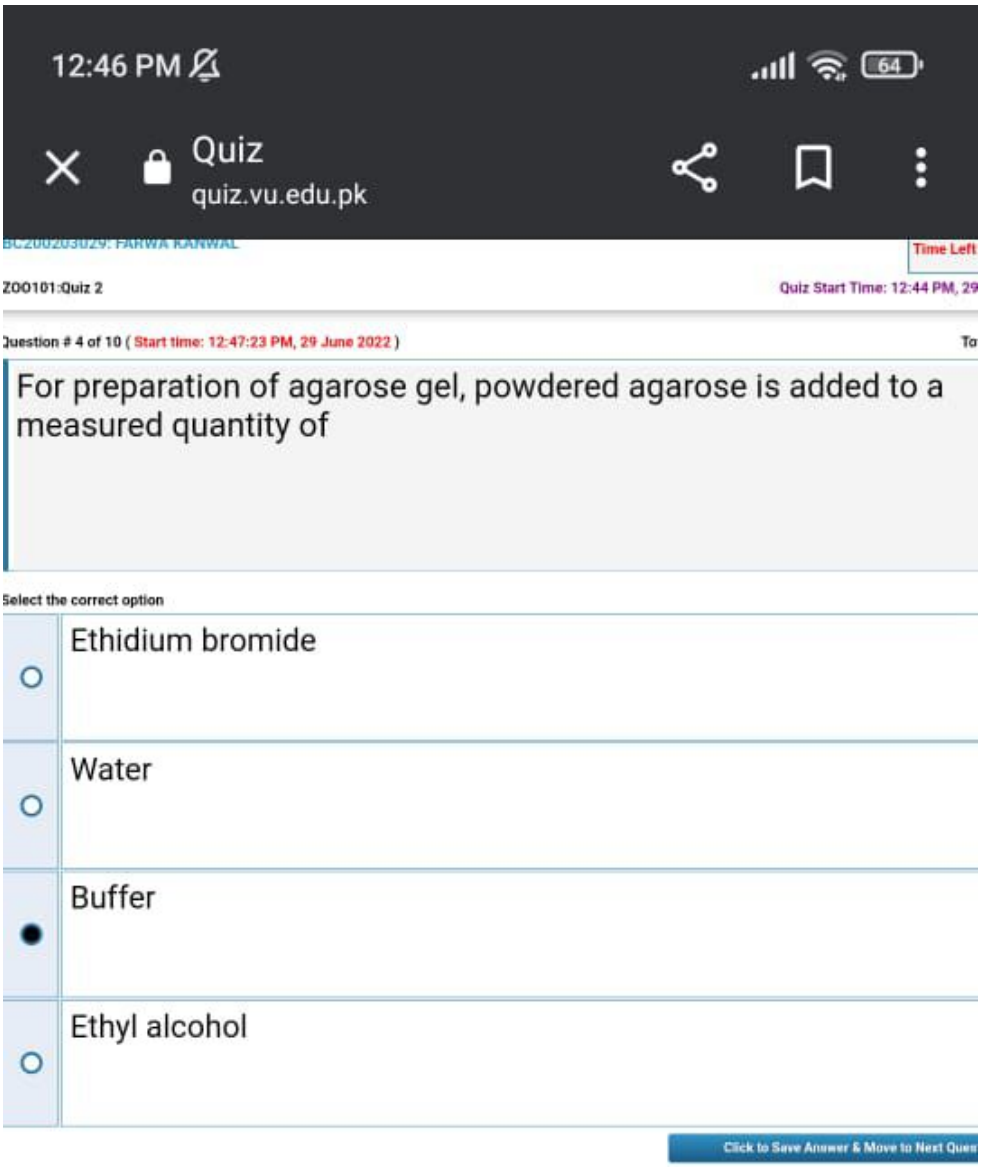
Question # 1 of 10 (Start time: 12:44:16 PM, 29 June 2022)

Light microscopes have a resolution limit of about

Select the correct option

- 0.3 µm
- 0.1 µm
- 0.5 µm
- 0.2 µm

Click to Save An


12:46 PM
64
Quiz
quiz.vu.edu.pk
Time Left
ZOO101:Quiz 2
Quiz Start Time: 12:44 PM, 29
Question # 4 of 10 (Start time: 12:47:23 PM, 29 June 2022)
For preparation of agarose gel, powdered agarose is added to a measured quantity of
Select the correct option
Ethidium bromide
Water
Buffer
Ethyl alcohol
Click to Save Answer & Move to Next Ques

ZOO101:Quiz 2

Quiz Start Time: 03:01 PM, 30 June 2022

Question # 6 of 10 (Start time: 03:07:30 PM, 30 June 2022)

Total Marks: 1

Bright-field microscopy typically has

Select the correct option

- Low contrast
- None
- High contrast
- Very high contrast

12:44 PM
Quiz
quiz.vu.edu.pk

Question # 2 of 10 (Start time: 12:44:36 PM, 29 June 2022)

SYBR Gold method has high affinity for?

Select the correct option

- Both DNA & RNA
- DNA
- Proteins
- RNA

Question # 7 of 10 (Start time: 03:08:16 PM, 30 June 2022)

Total Marks: 1

To observe the sample through a fluorescence microscope, it should be first labeled with

Select the correct option

- Giemsa
- Fluorophore
- Iodine
- All of above

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 03:04:43 PM, 30 June 2022)
Total Marks: 1

Different processing fluids are moved in and out of a single station sequentially.

Select the correct option

- ○ All of the above
- ○ Hydraulic processor
- ○ Open processor
- ○ Closed processor ✓

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Quiz Start Time: 03:01 PM, 30 June 2022

Question # 10 of 10 (Start time: 03:12:53 PM, 30 June 2022)

Total Marks: 1

_____ is a physical or chemical agent that changes the genetic material, usually DNA, of an organism.

Select the correct option

- Explosive
- None
- Both a&b
- Mutagen ✓ not sure

ZOO101:Quiz 2

Quiz Start Time: 03:01 PM, 30 June 2022

Question # 9 of 10 (Start time: 03:12:03 PM, 30 June 2022)

Total Marks: 1

The pH of Trisphosphate (TPE) buffer at a concentration of 50Mm is

Select the correct option

- 7.5-7.8 ✓
- 8.7-8.9
- 7.2-7.5
- 5.7-7.8

ZOO101:Quiz 2

Quiz Start Time: 03:01 PM, 30 June 2022

Question # 1 of 10 (Start time: 03:01:48 PM, 30 June 2022)

Total Marks: 1

Wheel action is translated into back & forth movement in which one?

Select the correct option

- ○ Staining
- ○ Ultramicrotome
- ○ Cryostat
- ○ Rotary Microtome ✓

ZOO101:Quiz 2

Quiz Start Time: 03:01 PM, 30 June 2022

Question # 5 of 10 (Start time: 03:06:24 PM, 30 June 2022)

Total Marks: 1

Zenker's fixative is employed to prepare specimens of _____ for microscopic study.

Select the correct option

- Microbial cell
- Both a & B ✓
- Vegetable tissue
- Animal Tissue

Time Left sec(s)

ZOO101:Quiz 2

Quiz Start Time: 03:01 PM, 30 June 2022

Question # 2 of 10 (Start time: 03:03:39 PM, 30 June 2022)

Total Marks: 1

For preparation of agarose gel, powdered agarose is added to a measured quantity of

Select the correct option

- Water
- Ethidium bromide
- Ethyl alcohol
- Buffer ✓

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Quiz Start Time: 02:48 PM, 30 June 2022

Question # 4 of 10 (Start time: 02:53:35 PM, 30 June 2022)

Total Marks: 1

UV radiations absorbed by the DNA at wavelength of

Select the correct option

- 250nm
- 200nm
- 254nm
- 354nm

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Quiz Start Time: 02:48 PM, 30 June 2022

Question # 10 of 10 (Start time: 03:01:24 PM, 30 June 2022)

Total Marks: 1

The process used to separate, identify and purify DNA fragments is called

Select the correct option

- ○ Fragmentation
- ○ Staining
- ○ Electrophoresis ✓
- ○ Distillation

Click to Save Answer & Move to Next Question

ZOO101:Quiz 2

Question # 2 of 10 (Start time: 02:20:50 PM, 30 June 2022)

It is also called Minot microtome, after its inventor Professor Minot.

Select the correct option

- ○ Sliding microtome
- ○ Rotary rocking microtome ✓
- ○ Base sledge microtome
- ○ Vibrating microtome

Question # 10 of 10 (Start time: 02:21:56 PM, 30 June 2022)

For preparation of agarose gel, powdered agarose is added to a measured quantity of?

Select the correct option

○	1.5mg/ml
○	1.5µg/ml
○	0.3µg/ml
○	0.5µg/ml ✔

Type here to search

Question # 9 of 10 (Start time: 02:20:43 PM, 3

Noble prize in physic was awarded to ...in 195

Select the correct option

- Robert hook
- Hans Janssen
- Girolamo Fraccastoro
- Fritz Zernike ✓

Type here to search

ZOO101:Quiz 2

Question # 3 of 10 (Start time: 02:21:33 PM, 30 June 2022)

The resolution of which DNA is better in TAE than in TBE

Select the correct option

- Single stranded
- Helical
- Supercoiled
- Linear ✓

Question # 7 of 10 (Start time: 02:18:57 PM, 3

In microtomy method, staining involves?

Select the correct option

- ○ Clearing
- ○ Section cutting
- ○ Deparaffinization ✓
- ○ Dehydration

Question # 5 of 10 (Start time: 02:17:41 PM, 30 June 2022)

The bending of light in microscope is determined by _____?

Select the correct option

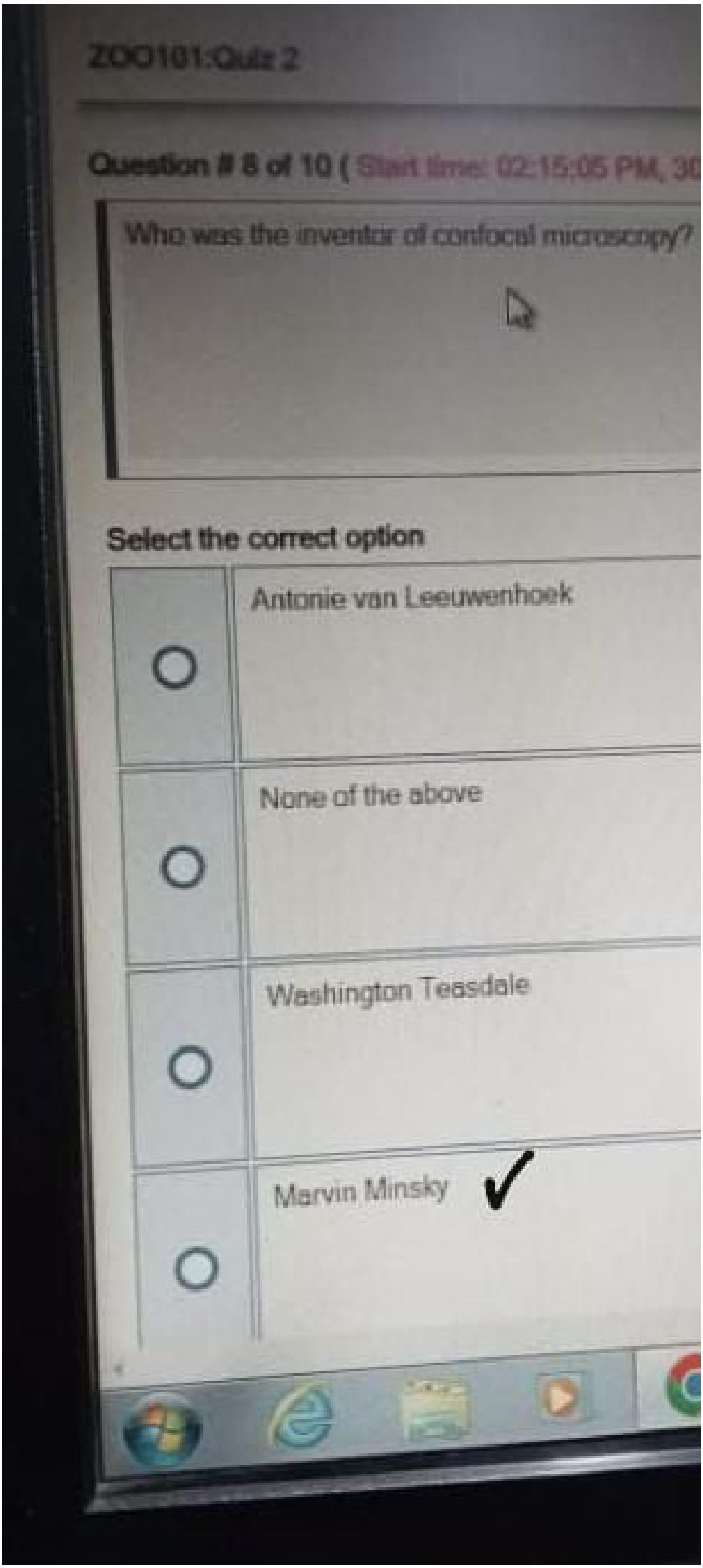
- ○ Diopter
- ○ Lens Tube
- ○ Optical Tube
- ○ Refractive index ✓

Question # 6 of 10 (Start time: 02:18:15 PM, 30 Jun

Who was the inventor of confocal microscopy?

Select the correct option

- ○ Marvin Minsky ✓
- ○ Washington Teasdale
- ○ Antonie van Leeuwenhoek
- ○ None of the above


ZOO101:Quiz 2
Question # 8 of 10 (Start time: 02:15:05 PM, 30
Who was the inventor of confocal microscopy?
Select the correct option
Antonie van Leeuwenhoek
None of the above
Washington Teasdale
Marvin Minsky

Question # 8 of 10 (Start time: 02:20:03 PM, 30 June 2022)

OSMIUM TETRAOXIDE is often used as a _____ fixative.

Select the correct option

- ○ Primary
- ○ Secondary ✓
- ○ None
- ○ Double layered

Question # 4 of 10 (Start time: 02:16:1

Normal shape of specimen holder is

Select the correct option

- Simple round
- Round metal ✓
- Wrinkle
- Oval

ZOO101:Quiz 2

Question # 7 of 10 (Start time: 02:14:21 PM, 30 June 2022)

Which knives are used to cut ultrathin slices of samples for electron and light

Select the correct option

- Diamond knives
- Sapphire
- Steel knives
- Glass knives ✓

Question # 9 of 10 (Start time: 02:15:39 PM, 30 June 2022)

During Gel staining bands of double stranded DNA can be detected by

Select the correct option

○	None of the above
○	X-ray radiations
○	UV radiations ✓
○	Infrared radiations

Question # 2 of 10 (Start time: 02:14:33 PM, 3

Occular micrometer is used inside the _____

Select the correct option

- ○ Objective lens
- ○ Base
- ○ Eyepiece ✓
- ○ Illuminator

Question # 6 of 10 (Start time: 02:13:58 PM, 30 June 2022)

Which of the following is fast freezing chemical?

Select the correct option

- Water
- Liquid Nitrogen
- Ether
- Isoamyl alcohol

ZOO101:Quiz 2

Question # 2 of 10 (Start time: 02:09:23 PM

Vibratome produces slices of thickness?

Select the correct option

- 35-45 micrometres
- 30-40 micrometres
- 30-50 micrometres ✓
- 20-30 micrometres

ZOO101:Quiz 2

Question # 5 of 10 (Start time: 02:13:22 PM,

Bright field illumination is useful for samples

Select the correct option

- Which have an intrinsic colour
- Which have dull colour
- Which have extrinsic colour
- None of above

Question # 1 of 10 (Start time: 02:13:08 PM, 30 June 2022)

Images of ethidium bromide stained gels may be captured by integrated systems containing?

Select the correct option

- ○ Thermal printers
- ○ Fixed focus digital cameras
- ○ All of the above ✓
- ○ Light sources

ZOO101:Quiz 2

Question # 4 of 10 (Start time: 02:11:17 PM, 30 June 2022)

A series of _____ alcohol concentrations are used to avoid excessive distortion of the tissue

Select the correct option

- Variable
- Constant
- Decreasing
- Increasing ✓

Question # 4 of 10 (Start time: 05:44:36 PM, 29 June 2022) Total Marks: 1

Phase contrast microscopy reveal_____.

Select the correct option

- Cellular structure ✔
- Tissue structure
- None
- both tissue and Cellular structure

Click to Save Answer & Move to Next Question