

Practical Microtechnique Question Bank

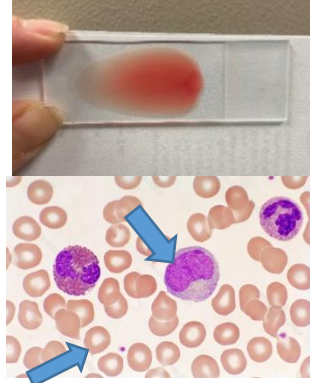


Q1/ A- Write the name of the method?

B- Identify the labeled parts in the 2nd picture?

C- Write the name of the stain and mounting media used?

D- How you prepare the slide, explain in brief?



Q2/ Identify the picture. Why you do it in the lab. What anestheticizer used?



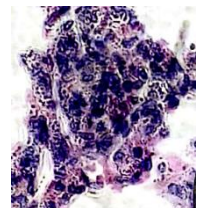
Q3/ How and why you fixate the fresh tissue?

Q4/ Is time interval in your procedure important? Why?

Q5/ Why you should record and label every information in the laboratory?

Q6/ A- Identify this slide? Which stain used?

B- Mention the followed stages?



Q7/ A- Identify this instrument? In which method and step used?



Q8/ What is 5 μ m ribbon?

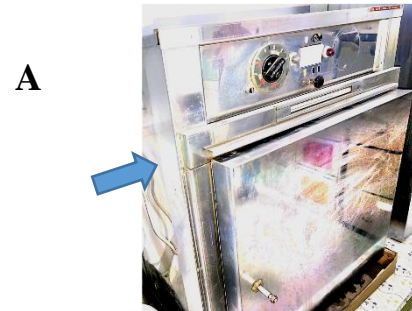
Q9/ Why you should record and label every information during your work in the laboratory?

Q10/ A- What are the instruments and labeled tools in the picture? In which technique and step used and mention their functions?

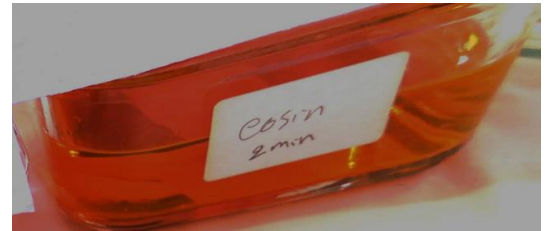
Q11/ What is the purpose of using the following:

1. Mayer's stick
2. 70% ethanol + HCL
3. Sodium phosphate monobasic
4. Canada Balsam
5. Sodium bicarbonate
6. 1 xylene + 1 paraffin
7. 10% formalin
8. Blade
9. Brush
10. Slide

Q12/ A- Identify the picture? In which step is used?



Q13/ Identify the picture? Mention the followed steps?



Q14/ What is P.V.P ?

Q15/ A- Write the name of the method?

B- What is EDTA?



C- Illustrate the procedure with diagram in brief?

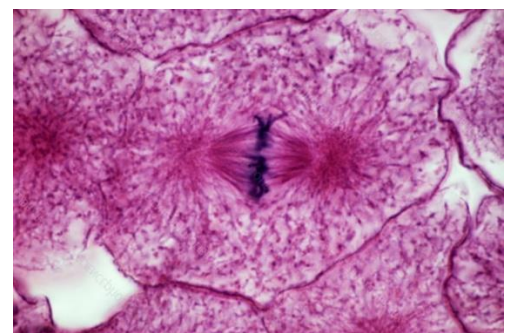
Q16/ A- Identify this slide?

B- Write the name of method used?

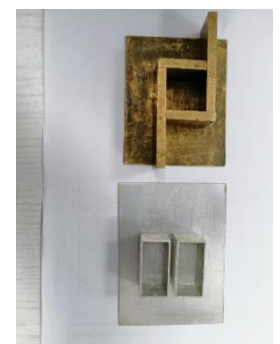


Q17/ Identify this slide and describe it?

Q18/ Mention the stages of mitosis division?



Q19/ What is the tool in the picture? In which technique and step used?



Q20/ What is the purpose of using the following:

1. Dispenser
2. ethanol
3. microscope
4. p.v.p
5. HCL

Q21/ A- Identify this instrument?

B- What is the purpose of using it?



Q22/ Why you should be aware from hazardous materials during your work in the laboratory?

Q23/ What we mean by Dehydration? Why we should do it?

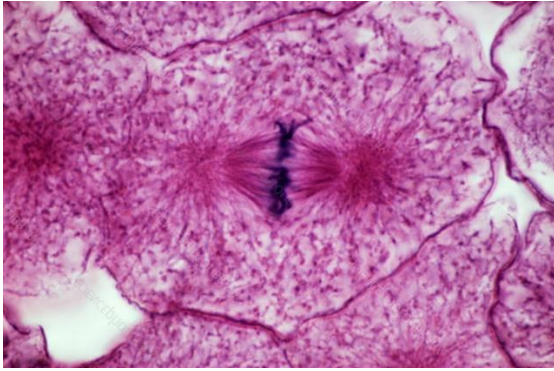
Q24/ Give the reason, Why use onion roots for viewing mitosis?

Q25/ what is the purpose of using the following: -

1. Sterile syringe
2. Blade
3. Dispenser
4. Onion root tip
5. Slide
6. Benzene
7. Hematoxylin
8. Sodium carbonate
9. Canada Balsam
10. Glacial acetic acid

Q26/ Why you should be aware from hazardous materials during your work in the laboratory? (10)

Q27/ A- Identify this slide (30)



B- Mention the step after it

C- How can u detect them?

Q28/ Count types of fixation, then mention the fixatives you used in the laboratory.

Q29/What we mean by Dehydration? Why we should do it?

Q30/ Identify this instrument? What is the purpose of using it?



Q31/ How can you do infiltration for your sample?

Q32/Why you should record and label every information during your work in the laboratory?

Q33/Enumerate methods in microscopic techniques, then mention the differences between them. (20)

Q34/ what we mean by Guard cells? How can you detect in?

Q35/ Explain by a diagram preparation of blood smear slide.

Q36/ Answer the following

A- Identify this slide

B-Mention the step before this step

C-Write the name of stains used to stain this slide

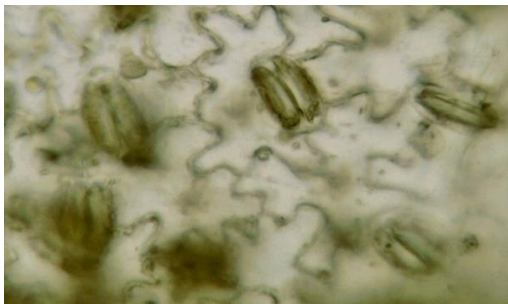
D-Could doing this slide permanent slide? How?



Q37/ A- Mention the method preparation of this slide

B- Write the procedure to prepare this slide from stem

C-Write the name of stain used to stain this slide



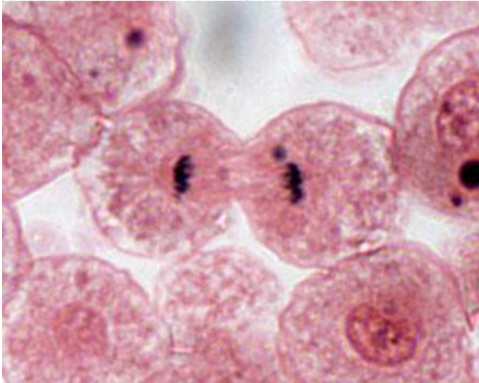
Q38/ As a technician what is meaning Records and labeling for you (5 Marks)

Q39/ Mention the main differences between sectioning and non-sectioning methods

Q40/ Identify the pointed parts with mention the interphase of the cell through division



Q41/ A- Identify the below slide:



B- Illustrate cell cycle.

Q42/ Why we chose onion in our experiment?

Q43/ Mention the laboratory rules then explain one of them.

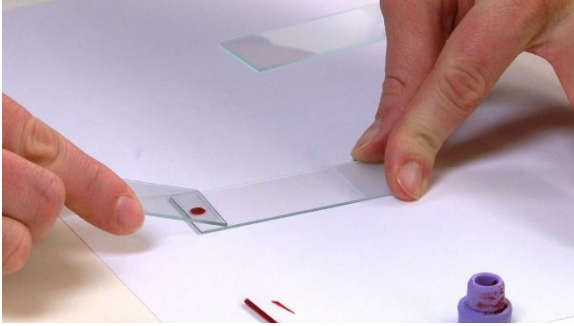
Q44/ A- Identify the below slide:



B- Mention the methods we prepare it.

C- Mention the stain that have been used to stain it.

Q45/ A- Mention the next step for the following slide:



B/ How did you fix the prior slide?

C/ Mention the materials used during the preparation of that slide.

D/ What is the principle of that procedure?

Q46/ A- Identify the following instrument:



B/ What is the purpose of using it?

Q47/ Mention the properties of fixative then briefly explain what we mean by perfusion?

Q48/ A- How can you prepare Mayer's adhesive?

B/ What is the purpose of using it?

C/ Where did you use it?

Q49/ What is the composition of the following solutions:

1. Bluing solution.
2. Eosin Y working solution.

Q50/ What is the purpose of using the following:

1. Disposable table towel.
2. DPX.
3. Alcohol.
4. Benzene.
5. Blade.
6. Hematoxylin.
7. Paraffin wax + Xylol.

8. HCL + Alcohol.

Q51/ A- Draw and label the following:

1. Stomata.

2. Types of blood cells.

B- Mention the prior and the later step of the following procedure:

