



Department of ---Environmental Sciences and Health

College ofScience.....

University ofSalahaddin.....

Subject: Haematology (Practical)

Course Book – (Fourth stage)

Lecturer's name MSc. Jamal Kamal Mohammedamin

Academic Year: 2023/2024

Course Book

1. Course name	Haematology (Practical)
2. Lecturer in charge	Jamal Kamal Mohammedamin
3. Department/ College	Environmental Sciences and Health/Science
4. Contact	E-mail: Jamal.muhammedamin@su.edu.krd Tel:009647504687552
5. Time (in hours) per week	Practical: 4 hrs
6. Office hours	2 hours in a week
7. Course code	
8. Teacher's academic profile	I am Jamal Kamal Mohammedamin. I have got MSc. in Environmental Science/Environmental Pollution in 2014 at Environmental Department in College of Science-Salahaddin University. In addition, I got Bachelor degree in 2009 at the biology department at Salahaddin university. I participated in different training courses such as, English course and Teaching method courses.
9. Keywords	
10. Course overview:	Throughout the course, students will have the opportunity to learn laboratory work, case discussions, and clinical observations to apply their knowledge practically.
11. Course objective:	The course objective of practical haematology typically focuses on providing students with a comprehensive understanding of the laboratory techniques and diagnostic procedures used in the field of haematology.
12. Student's obligation	Every student must have examinations, the attendance, classroom activities and the weekly quizzes.
13. Forms of teaching	Different forms of teaching will be used to reach the objectives of the course: PowerPoint presentations for the head titles and definitions and summary of conclusions, classification of materials, and any other illustrations, the worksheet will be designed to let the chance for practicing several aspects of the course in the classroom, furthermore, students will be asked to prepare research papers on selective topics and summarize articles contents published in English into either Kurdish or Arabic language, those articles need to be from printed media or internet articles. There will be classroom

discussions and the lecture will give enough background to translate, solve, analyze, and evaluate problems sets, and different issues discussed throughout the course.

To get the best of the course, it is suggested that you attend classes as much as possible, and read the required lectures, and teacher's notes regularly as all of them are foundations for the course. Lecture notes are for supporting and not for submitting the reading material including the handouts. Try as much as possible to participate in classroom discussions, preparing the assignments given in the course given in the course.

14. Assessment scheme

**(3) / گروپی نه و بابه تانهی که تیوری و کردارین (2 کاتژمیر تیوری (15%) , 2 کاتژمیر کرداری (35%):
نمره ی کۆشش له 50%**

فۆرمی راگه یاندنی کۆششی کۆتایی کۆرس بۆ بابه ته کانی تیوری و کرداری به و شیوه یه بیته:

نمره ی کۆشش له 50%		کرداری 35%				تیوری 15%		ناری میانی قوتایی
نمره ی کۆشش له 50%	نمره ی کۆشش له 50%	Activities (Seminars, Labs, or Fields) 6%	Weekly reports (Results, Discussion, References) 8%	Quizzes %6	Mid- term exams %15	Activities (Quizzes ,Seminars, Reports ,Assignments) %5	Mid- term exams %10	

15. Student learning outcome:

- 1- Performing Hematological Tests
- 2- Sample Collection and Handling
- 3- Safety and Ethical Practices

16. Course Reading List and References:

- 1- Bain, B. J. (2011). Practical hematology.
- 2- Thelml, H., Diem, H., & Haferlach, T. (2004). Color atlas of hematology: practical microscopic and clinical diagnosis. Thieme.
- 3- CLS 241 Practical Haematology
(https://faculty.ksu.edu.sa/sites/default/files/pdf_copy_haematology_laboratory_manual_cls_241.pdf)

17. The Topics (Practical)

-Biosafety	Week 1
-Blood Drawing	Week 2
- Blood Drawing	Week 3
-Clotting Time Test	Week 4
- Bleeding Time Test	Week 5
- Erythrocyte-Sedimentation-Rate (ESR)	Week 6
- Blood Group	Week 7
- Crossmatch	Week 8
- WBC counting	Week 9
- Differential Leukocyte Count	Week 10
- Determination of Packed Cell Volume (PCV)	Week 11
- RBC Count	Week 12
-First Examination	Week 13
- Seminar	Week 14

18. Extra notes:

Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks.

19. Peer review

پیداچوونہوہی ہاوہل

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

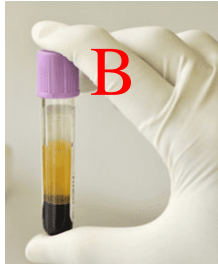
(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

نہم کورسبوو کہ دہبیت لہ لایہن ہاوہل کی نہ کادیمیہوہ سہیر بکریت و ناوہرؤکی بابہتہکانی کورسہ کہ پہسہند بکات و جہند ووشہیہک بنووسیت لہسہر شیاوی ناوہرؤکی کورسہ کہ و واژووی لہسہر بکات. ہاوہل نہو کہسہیہ کہ زانیاری ہہبیت لہسہر کورسہ کہ و دہبیت پلہی زانستی لہ ماموستا کہمتر نہبیت.

Name:

Group:

Q1) Name A, B tubes and write the main difference between them.



Q2) Name the anticoagulants for these tubes and write one use for each tube.



Q3) Write the main difference between tubes 2, 4 and write one reason for this problem.



Q4) define hematology and bleeding time.

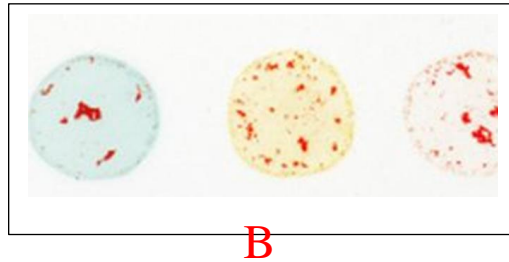
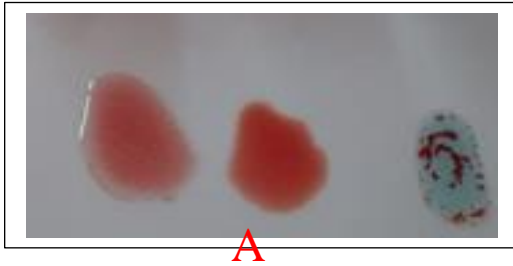
Q5) Name it and why we used for clotting time test?



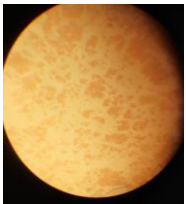
Q6) What is an ESR test and write the main difference between ESR and CRP TEST?



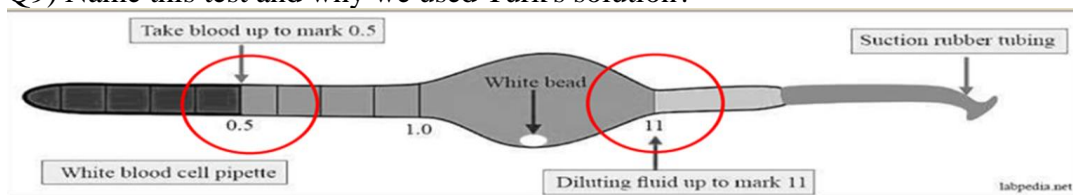
Q7) Determine the type of blood group and their Rh factor.



Q8) Name the test and why we do this test?



Q9) Name this test and why we used Turk's solution?



Q10) Why we used the following?

1-Tourniquet

2- Lancet

Jamal kamal Mohammedamin

Lecturer