Outer Cover Page

College Logo

University Logo

Name of the College…….

Name of University……..

SIDDHA MARUTHUVA ARIGNAR
BACHELOR OF SIDDHA MEDICINE AND SURGERY

SECOND PROFESSIONAL B.S.M.S

NOI NAADAL - II
(Principles of Modern Pathology)
SIDUG – NN2

PRACTICAL RECORD BOOK

Name of the Student : ----------

Institutional Roll No. : ----------

AcademicYear: ----------

DEPARTMENT OF NOI NAADAL NOI MUDHAL NAADAL(PATHOLOGY)

Inner FirstRight Page

UNIVERSITY LOGO

COLLEGE LOGO

NCISM LOGO

COLLEGE NAME……

APPROVED BY
NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE, NEW DELHI

AFFILIATED TO
UNIVERSITY NAME…….

SIDDHA MARUTHUVA ARIGNAR
BACHELOR OF SIDDHA MEDICINE AND SURGERY

SECOND PROFESSIONALB.S.M.S

NOI NAADAL - II

(Principles of Modern Pathology)

SIDUG – NN2

PRACTICAL RECORD BOOK

Name of the Student : ----------

Unique AYUSH ID No : ----------

University Register/Enrollment No.:----------

Institutional Roll No. : ----------

Academic Year: ----------

DEPARTMENT OF NOI NAADAL NOI MUDHAL NAADAL(PATHOLOGY)

2nd Right Page-Certificate

UNIVERSITY LOGO

COLLEGE LOGO

NCISM LOGO

COLLEGE NAME……

APPROVED BY
NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE, NEW DELHI

AFFILIATED TO
UNIVERSITY NAME…….

CERTIFICATE

This is to certify that, Mr./Mrs./Miss…… (Name of student) bearing Roll No…… and University Register/Enrollment No…… has satisfactorily completed all the Practical of Noi Naadal - II= SIDUG – NN 2 prescribed by the National Commission for Indian System of Medicine as a part of second Professional B.S.M.S Course

HEAD OF THE DEPARTMENT

Submitted for the Practical Examination Conducted by …… (University Name), held on…… (date) at……(College name).

EXAMINERS

Date:---------- **Internal: ----------**

Place:---------- **External: ----------**

3rd Right Page-Index

INDEX

Sr. No.	Date	Name of Practical	Term	Page No.	Signature of Faculty
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INSTRUCTIONS & GUIDELINES

General

1. The common format for the practical prescribed by the NCISM is aiming to maintain uniformity among colleges/institutions across the country.

Instructions to Students

2. The student will prepare the practical record book, including the cover page, first inner page, certificate page, and index page as per the format prescribed by the NCISM here.

3. The student will record in the practical record book handwritten immediately after each practical and get the signature of the concerned teaching faculty.

4. The student will use the specific format/template for recording each practical in the practical record book.

Instructions to Teachers/HOD

5. It is the responsibility of the department to conduct practicals as per the list, schedule, method, etc., specified in the curriculum.

6. The teacher must instruct the student to record his/her work as per the specific format prescribed by the NCISM here.**(List of practical and format references are enclosed herewith)**

7. After each practical, the concerned teacher must verify the completion of the record work and put the signature in the index page.

8. The certificate page of the practical record will be certified and signed by the concerned head of the department.

9. Normal values or any other important information confined to the subject, if any, may be printed in the last pages.

List of Practical and Format Reference

S. No.	Name of the Practical	Format reference
P.1	**Hematology***	
1.	Estimation of Bleeding time	I
2.	Estimation of Clotting time	I
3.	Estimation of Haemoglobin	I
4.	Estimation of Erythrocyte Sedimentation Rate	I
5.	Estimation of Total red blood cell count	I
6.	Estimation of Total wbc count	I
7.	Estimation of Differential count	I
8.	Estimation of Platelet count	I
9.	Peripheral Blood Smear – Blood picture	I
P.2	**Urine Analysis**	
10	Analysis of presence of glucose	II
11	Analysis of presence of protein	II
12	Analysis of presence of ketones	II
13	Analysis of presence of bile salts/ bile pigments	II
14	Analysis of presence of blood	II
P3	**Hematopathology Slides**	
15	Anaemia	III
16	Leukaemia	III
P4	**Histopathology Slides**	
17	Fatty liver	III
18	Granuloma	III
19	Chronic venous congestion lung	III

20	Chronic venous congestion liver	III
21	Chondroma	III
22	Thrombus	III
23	Atheroma	III
24	Pneumonia	III
25	Bronchiectasis	III
26	Tuberculosis lung/lymph node	III
27	Gastric ulcer	III
28	Tuberculosis intestine	III
29	Cirrhosis	III
30	Chronic pyelonephritis	III
31	Adenocarcinoma colon	III
32	Renal cell Carcinoma	III
33	Lipoma	III
34	Osteoclastoma	III
35	Papillary Thyroid Carcinoma	III
36	Leiomyoma	III
37	Fibroadenoma breast	III
38	Carcinoma breast	III
39	Vaginal smear	III
P5	**Specimen**	
40	Pneumonia	IV
41	Bronchiectasis	IV
42	Tuberculosis lung/ lymph node	IV

43	Tuberculosis Intestine	IV
44	Adenocarcinoma colon	IV
45	Cirrhosis	IV
46	Chronic pyelonephritis	IV
47	Renal cell Carcinoma	IV
48	Gastric ulcer	IV
49	Leiomyoma	IV
50	Fibroadenoma breast	IV
51	Carcinoma breast	IV
P6	**Radiological**	
52	Cardiothoracic	V
53	Renal	V
54	Gastrointestinal	V
55	Bone and joint	V
P7	**Case based learning****	
56	Infectious diseases	VI
57	Environment / nutritional diseases	VI
58	Haematological disorders	VI
59	Cardiothoracic diseases	VI
60	Gastrointestinal diseases	VI
61	Hepatobiliary diseases	VI
62	Renal diseases	VI
63	Neurological diseases	VI
64	Urogenital diseases	VI

Format -I

(For the practical P1)

Practical of Haematology

(Diagram Left side and description right side)

- Name of the experiment
- Objective
- Principle*
- Requirements
- Procedure
- Diagram/Table/Calculation
- Result
- Clinical significance

Format II

(For the practical P2)

Practical of Urine Analysis

- Name of the experiment
- Objective
- Principle*
- Requirements
- Procedure
- Observation
- Inference
- Clinical significance

Format – III

(For the practical P3 and P4)

Practical of Haematology/Histopathology Slide

(Diagram Left side and description right side)

- Diagram
- Microscopical features
- Haematological/Histopathology diagnosis
- Clinical significance

Format – IV

(For the practical P5)

Practical of Specimen

(Diagram Left side and description right side)

- Diagram/picture
- Gross features
- Pathological diagnosis
- Clinical significance

Format – V

(For the practical P6)

Practical of Radiology

(Diagram Left side and description right side)

- Diagram/picture
- Part and View
- Radiological findings
- Radiodiagnosis
- Clinical significance

Format – VI

(For the practical P7)

Case Based Learning

- Details to be given – Case scenario with or without investigation
- Questions can be asked –
    - Investigation/ further investigation
    - Differential Diagnosis
    - 3. Diagnosis

*Wherever applicable

** Minimum three cases from each topic mentioned under case-based learning in practical index SIDUG-NN2 - II B.S.M.S, NCISM.

NORMAL VALUES	
COMPONENT	**REFERENCE VALVE**
ERYTHROCYTES	
Erythrocyte Sedimentation Rate	Males – 0-15mm/hr Females- 0-20 mm/hr
Haemoglobin	Male – 13 -18 gm /dl Female – 11.5 -16.5 gm/dl
Erythrocyte Total Count	Males -4.5 – 6.5 million cells per /µL Females – 3.8 – 5.8 million cells / µL
Erythrocyte Diameter	6.7 – 7.7 µm
Red Cell Distribution Width (RDW)	Males – 12.2 – 16.1 % Females – 11.8- 14.5 %
ERYTHROCYTE (AbsoluteValues)	
Mean corpuscular Haemoglobin	27 -32 Picograms Per Cell
Mean Corpuscular Volume	77-93 femtolitres
Mean Corpuscular Haemoglobin Concentration	30-35 gm /dl
Haematocrit (PCV)	Males – 40-54 % Females – 37-47 %
LEUCOCYTES	
Total Leucocyte Count	Adults – 4,000-11,000 / µL Infants at Birth – 10,000 -25,000 /µL Infants (1year) – 6,000 – 16,000 /µL
Differential Leucocyte Count	Neutrophils – 40-75 % (2,000 -7,500 /µL) Lymphocytes – 20-50 % (1,500 -4,000 /µL) Eosinophils – 1-6 % (200 -800 /µL) Monocytes – 2-10% (40 – 400 /µL) Basophils - < 1% (10-100 / /µL)
PLATELETS	
Bleeding Time	2-7 minutes
Clotting Time	4-9 minutes

Fibrinogen	200-400 mg / dl
Fibrin degradation products	<10 µg /ml
Partial thromboplastin time	30-40 sec
Prothrombin time	10-14 secs
Thrombin time	≤ 20 secs
Platelet count	1,50,000 – 4,00,000 / µL
URINE EXAMINATION	
Volume (24 hr volume)	600-1,800 ml
pH	5.0 -9.0
Specific Gravity	1.002 1.028
Protein Excretion (24 hr urine)	< 150 mg /day
Glucose Excretion (24 hr Urine)	50-300 mg / day
Urobilinogen (24 hr Urine)	1.0-3.5 mg / day
LIVER FUNCTION TESTS	
BILIRUBIN	
Total	0.3 -1.3 mg / dL
Direct (Conjugated)	0.1-0.4 mg/ dL
Indirect (Unconjugated) `	0.2-0.9 mg / dL
Alkaline Phosphatase	33-96 U/L
Aminotransferases	
Aspartate (AST , SGOT)	12-38 U/L
Alanine (ALT ,SGPT)	7-41 U/L
Total Protein	6.7-8.6 g /dL
Albumin	3.5 -5.5 gm /dL
Globulin	2.0-3.5 gm /dL
A/G ratio	1.5 – 3: 1
RENAL FUNCTION TESTS	
Glomerular Filtration Rate	180 L/day
Renal Blood Flow	1200 mL/ min
Urea	20-40 mg/ dL

Uric acid	Males: 3.1 – 7.0 mg /dL Females: 2.5 – 5.6 mg/dL
Creatinine	0.6 – 1.2 mg /dL
Blood Urea Nitrogen	7- 20 mg / dL
Urea creatinine Ratio	10 : 1
THYROID FUNCTION TESTS	
Thyroxine total	5.4 – 11.7 µg / mL
Triiodothyronine total	77 -135 ng /dL
Thyroid stimulating hormone	0.4 -5.0 µU /mL