

Otorhinolaryngology (ENT)  
Syllabus of ENT 4<sup>TH</sup> and 6<sup>th</sup> semester

## EAR

1. Surgical anatomy of the ear
2. physiological consideration with special emphasis on the conduction and perception of sound
3. Audiology and vestibulometry.
4. Diseases of external auditory canal and different types of foreign bodies in the ear and their management e.g. wax and otomycosis.
5. Inflammatory disorders of middle ear ASOM and CSOM. With their complications and management.
6. Secretory otitis media, otosclerosis, Stapedectomy
7. Different types of deafness, causes and their management.
8. Vertigo – causes, investigations and management; meniers diseases and acoustic neuroma
9. Ototoxicity
10. Noise induced hearing loss
11. Methods of screening a deaf child and their rehabilitation

## NOSE AND PARANASAL SINUSES

1. Brief anatomy of the nose and paranasal sinuses.
2. Function of the nose, PNS and physiology of olfaction.
3. Common injuries of the nose and mid facial fractures
4. Epistaxis – causes, investigations and management.
5. Common diseases of nose and PNS – rhinitis (atrophic rhinitis), vestibulitis, sinusitis
6. Foreign body of nose – types and management- maggots in nose
7. Cysts and tumors of the nose and paranasal sinuses
8. Angiofibroma of the nasopharynx
9. Carcinoma nasopharynx
10. Nasal polyps, deviated nasal septum

## PHARYNX, OESOPHAGUS LARYNX

1. Brief anatomy of the pharynx and esophagus
2. Physiology of taste and deglutition
3. Functions of the sub epithelial lymphoid tissue around upper aero digestive tract
4. Common diseases of the pharynx with special emphasis on tonsils and adenoids
5. Laryngeal carcinoma, benign tumors, hoarseness, stridor and Dysphagia, their investigations and treatment.

## ENT

**TOTAL MARKS- 100**

**PASS MARKS – 50**

### MODULE OF QUESTION IN QUESTION PAPER

#### A.THEORY – 40 MARKS

1. PRE AND PARA SUBJECTS (ANY TWO) - 10(5X2) MARKS

Q1. ANATOMY OF TYMPANIC MEMBRANE.

Q2. MECHANISM OF MUCOCILIARY CLEARANCE NOSE & P.N.S.

Q3 PATHOLOGY OF THE TUBOTYMPANIC TYPE OF CSOM

2. OPERATIVE AND CLINICAL QUESTIONS (ANY TWO) - 10(5X2) MARKS

Q1 CORTICAL MASTOIDECTOMY – STEPS OF OPERATION, INDICATION AND COMPLICATION

Q2 CLINICAL FEATURES AND INVESTIGATION OF ANTROCHOANAL POLYP

Q3. PATCHES OVER BOTH TONSILS – TREATMENT PROTOCOLS

3. PROBLEM BASED QUESTUION - 10 MARKS

Q1. A MALE PATIENT AGED 6 YRS COMPLAINING OF HOARSENES OF VOICE FOR 3MONTHS- ATTENDING ENT EMERGENCY WITH STRIDOR – HOW WILL YOU MANAGE SUCH A CASE? -

4. SHORT NOTES (TWO OUT OF THREE) - 10(5X2) MARKS

A) LATERAL WALL OF NOSE

B) CHRONIC RETROPHARYNGEAL ABSCESS

C) CHOLESTEATOMA

#### B. ORAL; 10 MARKS

A) INSTRUMENTS (TWO)

B) X-RAY, OTHER IMAGING

C) FLYING ORAL

#### C. PRACTICAL – 30 MARKS

A) ONE LONG CASE - 20 MARKS

B) ONE SHORT CASE - 10 MARKS

#### D. INTERNAL ASSESSMEMNT : 20 MARKS

4<sup>TH</sup> AND 6<sup>TH</sup> SEMESTER - 10 MARKS

FINAL ASSESSMENT - 10 MARKS

## Clinical

### 4<sup>TH</sup> SEMESTER

OPD = FOUR DAYS A WEEK – THREE HRS PER DAY/ ONE DAY XRAY/  
INSTRUMENTS AND ONE DAY CLINICAL APPROACH.

OT= ONE DAY A WEEK – THREE HRS

WARD/ BEDSIDE CLINICS- ONE DAY A WEEK – THREE HRS

### 6<sup>TH</sup> SEMESTER

**DIDACTIC LECTURES** = 20 CLASSES/ 45MINS DURATION

EAR = 8 CLASSES (ANATOMY, PHYSIOLOGY, DISEASES OF EXTERNAL  
EAR, CSOM, ASOM, ETC)

NOSE= 6 CLASSES (DNS POLYPOSIS, EPISTAXIS, SINUSITUS)

THROAT= 6 CLASSES (ANATOMY PHYSIOLOGY DYSPHAGIA AND  
DEGLUTTON STRIDOR TRACHEOSTOMY ETC

### **CLINICAL POSTING**

OPD = TWO DAYS A WEEK – THREE HRS PER DAY/ ONE DAY XRAY/  
INSTRUMENTS AND ONE DAY CLINICAL APPROACH. = 24HRS

OT= TWO DAYS A WEEK – THREE HRS PER DAY / OBSERVING SOME  
OPERATIONS/ 4WKS = 24HRS

GROUP DISCUSSION AND SEMINARS- TWO DAYS IN A WEEK / THREE HRS  
DURATION / 4WKS = 24HRS (HORSENESS OF VOICE, COMPLICATIONS OF  
MIDDLE EAR INFECTION, OTOSCLEROSIS, OTOMYCOSIS, FOREIGN BODY  
IN EAR, CERUMEN, OTOTOXCITY, NOISE INDUCED HEARING LOSS, SOM,  
SUBEPITHELIAL LYMPHOID TISSUE AROUND UPPER AERODIGESTIVE  
TRACT, TRACHEOSTOMY)

## West Bengal University Of Health Sciences

### HISTORY TAKING REGISTER FOR OTORHINOLARYNGOLOGY

|                     |  |
|---------------------|--|
| CANDIDATES NAME     |  |
| COLLEGE ROLL NO.    |  |
| UNIVERSITY ROLL NO. |  |
| YEAR                |  |
| SESSION             |  |

### CASE RECORD BOOK

### DEPARTMENT OF OTORHINOLARYNGOLOGY

.....MEDICAL COLLEGE

|   |                                   |
|---|-----------------------------------|
| NAME OF STUDENT                             |                                   |
| CLASS ROLL NO.                              |                                   |
| UNIVERSITY ROLL NO.                         |                                   |
| UNIVERSITY REGISTRATION NO.                 |                                   |
| SESSION                                     |                                   |
| SEMESTER                                    | 4 <sup>TH</sup> / 6 <sup>TH</sup> |
| REMARKS                                     |                                   |
| SIGNATURE OF TEACHER IN CHARGE              |                                   |
| COMMENT AND SIGNATURE OF HEAD OF DEPARTMENT |                                   |

#### INSTRUCTIONS TO THE STUDENTS

|    |  |
|----|--|
| 1. | HISTORY OF TEN CASES BE FULLY RECORDED FROM THE ALLOTTED BEDS IN ENT WARDS   |
| 2. | THE FINDINGS AND INVESTIGATIONS SHOULD BE PERFECT AND COMPLETE AS FAR AS POSSIBLE AND THE STUDENTS SHOULD TAKE THE HELP TEACHING STFFS IN ATTAINING THIS OBJECTIVE                           |
| 3. | THE STUDENT SHOULD REGULARLY BRING THIS BOOK WITH THEM TO WARD AND GET ATTENDACE OF DAILY CLINIC SIGNED BY THE RESPECTIVE TEACHER  |
| 4. | IF THE STUDENTS FACE ANY PROBLEM IN THE PURSUIT OF THEIR PRACTICAL TRAINING WHILE IN THE WARD THEY ARE ALWAYS WELCOME TO APPROACH THEIR TEACHERS WITHOUT ANY HESITATION FOR ANS AND SOLUTION |

#### **LIST OF CLINICAL INTYRUCTIONS PROCEDURES AND DEMONSTRATIONS FOR THE STUDENTS IN THE WARDS**

|           |                |
|-----------|----------------|
| <b>1.</b> | HISTORY TAKING |
|-----------|----------------|

[www.FirstRanker.com](http://www.FirstRanker.com)

|   |  |
|---|--|
| 2 | CLINICAL EXAMINATIONS OF   |
|   | (A) NOSE AND PARANASAL SINUSES   |
|   | (B) THROAT   |
|   | (C) EAR  |
| A | <b>NOSE AND PARANASAL SINUSES</b>  |
| 1 | NASAL POLYP  |
| 2 | DEVIATED NASAL SEPTUM  |
| 3 | SINUSITIS  |
| 4 | ATROPHIC RHINITIS  |
| 5 | EPISTAXIS  |
| 6 | NEOPLASMS OF THE NOSE AND SINUSES  |
| 7 | ANGIOFIBROMA OF NASOPHARYNX  |
| 8 | ANY OTHER SUBJECT  |
| B | <b>THROAT</b>  |
| 1 | ACUTE TONSILLITIS  |
| 2 | PERITONSILLAR ABSCESS  |
| 3 | CHRONIC TONSILLITIS  |
| 4 | NEOPLASM OF THE TONSIL   |
| 5 | LARYNGEAL PARALYSIS  |
| 6 | CARCINOMA OF LARYNX  |
| 7 | CARCINOMA OF ESOPHAGUS   |
| 8 | ANY OTHER SUBJECT  |
| C | <b>EAR</b>   |
| 1 | FURUNCULOSIS OF THE EAR  |
| 2 | PERICHONDRIITIS  |
| 3 | ACUTE SUPPURATIVE OTITIS MEDIA   |
| 4 | CHRONIC SUPPURATIVE OTITIS MEDIA<br>a) Tub tympanic variety<br>b) Atticoantral variety |
| 5 | DEAFNESS<br>a) Conductive<br>b) Sensorineural  |
| 6 | VERTIGO  |
| 7 | ANY OTHER SUBJECT  |

**MISCELLANEOUS**

|   |   |
|---|---|
| 1 | BLOOD DYSCRASIAS PRESENTING IN ENT      |
| 2 | LYMPHADENOPATHY                         |
| 3 | RADIATION THERAPY IN RADIOTHERAPY DEPT. |
| 4 | CHEMOTHERAPY                            |

| <b>OPERATIONS ON NOSE, SINUSES AND NASOPHARYNX</b> |   |
|--|---|
| 1  | ADENOIDECTOMY   |
| 2  | NASAL POLYPECTOMY   |
| 3  | SUBMUCOUS RESECTION OF SEPTUM                                   |
| 4  | CAUTERISATION   |
| 5  | SINUS WASHING   |
| 6  | REMOVAL OF FOREIGN BODY   |
| 7  | TRANAPALATAL APPROACH FOR REMOVAL OF TUMOUR FROM NASOPHARYNX    |
| 8  | AND OTHER SUBJECT   |
| <b>EAR</b>   |   |
| 1  | SYRNGING, DEWAXING  |
| 2  | REMOVAL OF FOREIGN BODY   |
| 3  | INCISION AND DRAINAGE OF ABSCESS                                |
| 4  | AURAL POLYPECTOMY   |
| 5  | MASTOIDECTOMY<br>a) Simple<br>b) Modified radical<br>c) Radical |
| 6  | MYRINGOPLASTY   |
| 7  | TYMPANOPLASTY   |
| 8  | STAPEDECTOMY  |
| <b>OPERATION ON THROAT</b>                         |   |
| 1  | TONSILLECTOMY   |
| 2  | LARYNGOPHARYNGECTOMY  |
| 3  | LATERAL PHARYNGOTOMY  |
| 4  | D/L AND REMOVAL OF FOREIGN BODY                                 |
| 5  | ESOPHAGOSCOPY   |
| 7  | TRACHEOSTOMY  |
| <b>MISCELLANEOUS</b>                               |   |
| 1  | EXTERNAL AND ENDOSCOPIC BIOPSY                                  |
| 2  | BRONCHOSCOPY  |
| 3  | THYROIDECTOMY   |
| 4  | ANY OTHER SUBJECT   |

EACH ITEM SHALL HAVE 5 MARKS EACH IN THEORY AND PRACTICAL.  
 AVERAGE OF ALL THE ITEMS OF PRACTICAL AND THEORY IN 4<sup>TH</sup>  
 SEMESTER AND 6<sup>TH</sup> SEMESTER SHALL BE THE PRACTICAL MARKS AND  
 THEORY MARKS OF CONTINUOUS INTERNAL ASSESSMENT

FINAL INTERNAL ASSESSMENT OF ENT

| <b>TOTAL MARKS</b> | <b>MARKS OBTAINED</b> |
|--------------------|-----------------------|
| THEORY - 5         |                       |
| PRACTICAL-5        |                       |

|          |  |
|----------|--|
| TOTAL-10 |  |
|----------|--|

**INTERNAL ASSESSMENT OF ENT**

| CONTINUOUS ASSESSMENT |                       | FINAL ASSESSMENT   |                       | INTERNAL ASSESSMENT MARKS |                         | TOTAL           | PERCENTAGE                 |
|-----------------------|-----------------------|--------------------|-----------------------|---------------------------|-------------------------|-----------------|----------------------------|
| THEORY/<br>ORAL(a)    | PRAC /<br>CLIN<br>(b) | THEORY/<br>ORAL(c) | PRAC /<br>CLIN<br>(d) | THEORY/<br>ORAL(a+c)      | PRAC /<br>CLIN<br>(c+d) | (a+c)<br>+(b+d) | % out of total 20<br>marks |
|                       |                       |                    |                       |                           |                         |                 |                            |

| <b>CONTINUOUS INTERNAL ASSESSMENT (ENT), 4<sup>TH</sup> SEMESTER</b> |       |     |     |
|--|-------|-----|-----|
| ITEMS  | MARKS |     | SIG |
|  | Th.   | Pr. |     |
| 1 ANATOMY OF EAR   |       |     |     |
| 2 MECHANISM IF HEARING   |       |     |     |
| 3 CLINICAL AUDIOLOGY   |       |     |     |
| 4 CLINICAL VESTIBULOMETRY  |       |     |     |
| 5 ANATOMY OF NOSE AND PNS  |       |     |     |
| 6 OLFACTION  |       |     |     |
| 7 CLINICAL EXAMINATION OF NOSE                                       |       |     |     |
| 8 ANATOMY OF TONSILS AND ADENOIDS                                    |       |     |     |
| 9 ANATOMY OF PHARYNX AND ESOPHAGUS                                   |       |     |     |
| 10 MECHANISM OF DEGLUTITION  |       |     |     |
| 11 ANATOMY OOF LARYNX, TRACHEA AND BRONCHUS                          |       |     |     |
| 12 CLINICAL EXAMINATION OF THROAT (LARYNX AND TRACHEA)               |       |     |     |
| 13 THEORY MCQ  |       |     |     |

**CONTINUOUS INTERNAL ASSESSMENT (ENT)  
6<sup>TH</sup> SEMESTER**

|   | <b>TH</b> | <b>PRT</b> | <b>SIGNATURE</b> |
|---|-----------|------------|------------------|
| <b>SUBJECTS</b>                                       |           |            |                  |
| 14 AFFECHIOSIS OF EXTERNAL EAR                        |           |            |                  |
| 15 CSOM AND ASOM WITH ITS MANAGEMENT AND COMPLICATION |           |            |                  |
| 16 OTOSLEROSIS  |           |            |                  |
| 17 MIDDLE EAR EFFUSION                                |           |            |                  |
| 18 FACIAL PALSY                                       |           |            |                  |
| 19 VERTIGO AND ITS MANAGEMENT                         |           |            |                  |
| 20 SENSORINEURAL DEAFNESS                             |           |            |                  |
| 21 AFFECHIOSIS OF EXTERNAL NOSE AND PNS               |           |            |                  |
| 22 DEVIATED NASAL SEPTUM                              |           |            |                  |
| 23 ATROPHIC RHINITIS                                  |           |            |                  |
| 24 SINUSITIS AND NASAL POLYP                          |           |            |                  |
| 25 EPISTAXIS  |           |            |                  |
| 26 DIAGNOSIS OF TONSILITIS AND ADENOIDS               |           |            |                  |
| 27 DISEASES OF PHARYNX AND ESOPHAGUS                  |           |            |                  |
| 28 DISEASES OF LARYNX                                 |           |            |                  |
| 29 TRACHEA  |           |            |                  |
| 30 DSPHASIA   |           |            |                  |
| 31 HOARSENESS OF VOICE                                |           |            |                  |
| 32 THEORY   |           |            |                  |
| TOTAL MARKS IN CONYINUOUS ASSESSMENT                  |           |            |                  |

PRACTICAL 1-12 IN 4<sup>TH</sup> SEMESTER AND 14- 31 IN THE 6<sup>TH</sup> SEMESTER

**ALL STUDENTS SHOULD WRITE 10 ENT CASES IN HISTORY SHEETS IN EACH SEMESTER**