



"Workshops on Training of Examiners for OSPE, OSCE & TOACS"

FACILITATORS: Prof. Nasreen Sharif (CMHLMC, Lahore)
 Dr. Robina Sohail (SIMS, Lahore)
 Dr. Noor Fatima (FMH CMD, Lahore)

ATTENDANCE SHEET

Sr	Institutions	Name of the Faculty Member	Designation	Signature
1.	Allama Iqbal Medical College, Lahore	—		
2.	Nishtar Medical College, Multan	—		
3.	Punjab Medical College, Faisalabad	DR. M. ASHRAF	Professor	[Signature]
4.	Quaid-e-Azam Medical College, Bahawalpur	Prof. Dr. KHAWJA MUHAMMAD FAYYAZ	professor & Head	[Signature]
5.	Rawalpindi Medical College, Rawalpindi	Prof. MALIK SHAH ZAMAN LATIF	Professor of Biochemistry	[Signature]
6.	Services Institute of Medical Sciences, Lahore.	DR. M. ZAMIR AHMAD	PROFESSOR	[Signature]
7.	Sheikh Zayed Medical College, Rahim Yar Khan	PROF. Dr. M. Asghar Sultan	PROFESSOR	[Signature]
8.	CMH Lahore Medical College, Lahore.	NASREEN SHARIF	PROFESSOR	[Signature]
9.	Lahore Medical & Dental College, Lahore	BRIGIER) PROF KHALID SAEDA AHMAD CHAUDHRY	PROFESSOR AND HEAD OF DEPT	[Signature]
10.	Wah Medical College, Wah Cantt	Dr. Abdul Baseer	Professor	[Signature]
11.	Fatima Memorial Hospital College of Medicine & Dentistry Lahore	Dr. Sander Mahmood	Senior Demonstrator	[Signature]
12.	College of Medicine & Dentistry, University of Lahore, Lahore.	MAHBOOB ISHAQ	Professor	[Signature]
13.	Faisalabad Medical College, Faisalabad	Dr. MUHAMMAD ALI → M. IQBAL TANIR	Professor ASST. Prof.	[Signature]
14.	Independent Medical College, Faisalabad	Dr. Samina Kausar Robina Rashid	Asst. Prof. Senior Demonstrator	[Signature]
15.	Sargodha Medical College, Sargodha.	Prof M Zahoor-ul-Hassan	Principal & Professor of Biochemistry	[Signature]

Format (Practical Examination / OSPE)
MBBS First Professional Examination (Part-II)
BIOCHEMISTRY (PART-II)

Total Marks: 75

Total marks allocated to Oral and Practical Examination are 75

Internal Assessment: 7.5 Marks

General Viva (Theory Viva): 30 Marks

15 Marks are allocated to internal examiner and 15 marks to external examiner.

Practical Examination: 37.5 Marks

Practical examination comprises three components i.e. Yearly Workbook, OSPE and experiment.

A- Yearly Workbook: 3.5 Marks (Internal Examiner)

B- OSPE: 18 marks

OSPE comprises 8 stations (two observed stations carrying 3 marks each and 6 non-observed stations 2 marks each).

Observed Stations (3 minutes for each station)

- i. Spectrophotometer, flame photometer, chromatograph, and electrophoresis: 1 station
- ii. Blood collection materials/apparatus, centrifuge machine, pipettes: 1 station

List of Tests for Observed Stations:

- i. Spectrophotometer.
- ii. Centrifuge Machine.
- iii. Pipettes.

Non-Observed Stations (3 minutes for each station)

- i. Tests to determine the concentration of total cholesterol, HDL cholesterol, and triacylglycerols, in plasma : 1 station
- ii. Tests to determine the concentration of total proteins, and glucose in plasma and CSF, and albumin in plasma: 1 station
- iii. Determination of plasma uric acid and calcium: 1 station
- iv. Determination of creatinine and urea in plasma, and creatinine clearance: 1 station
- v. Determination of activities of ALT and alkaline phosphatase in plasma. Estimation of plasma bilirubin: 1 station
- vi. Determination of activities of creatine kinase, LDH, and AST: 1 station

C- Experiment: 16 marks

- Principle/supposed calculations of the experiment: 4 Marks (External Examiner)
- Performance of experiment and viva voce pertaining to experiment: 12 Marks
(6 marks reserved for internal examiner and 6 marks for external examiner; one day the Internal examiner will take the Viva Voce related to practical and the External examiner will examine the performance related to the practical and the order shall be altered on a day to day basis.)

Conduct of OSPE

- The Batches for Major viva voce and Practical / OSPE exam will be separate on any particular day and will be 26 students strong each.
- All OSPE Questions will be sent by the Department of Examinations, UHS in sealed confidential envelopes to each center clearly marked for each day of Examination and shall be kept secure in our Regional Safety Lockers at respective centres.
- For any particular day of Examination the same OSPE questions will be sent to each center to maintain standardization.
- The sealed confidential envelope containing the OSPE questions for that particular day will be collected from the UHS regional safe locker by both the Internal and External Examiners in the presence of the Principal or his nominee and the Regional Coordinator up to Two hours before the commencement of Examination.
- Each packet of examination material will contain for that particular day the complete set of six non-observed OSPE questions with keys and instructions for the candidates and the examiners as well as a set of two observed OSPE questions with key and instructions for candidates and examiners.
- Instruction/ questions for the candidates will be included in the examination material and should be placed on both the observed and non-observed stations.
- The Practical Answer Books for non-observed stations will be sent separately to each centre one for each candidate.
- The candidates are to carry the Practical Answer Books from station to station of the non-observed stations and are to register their responses to each question at these desks separately on the same Practical Answer Sheet in the designated areas.
- Before leaving the Assessment Hall the candidate should deposit the Answer Book either at the “Marking Desk” or with the organizer as per decision of the convener.
- The candidates leaves the OSPE Hall will not mingle with candidates awaiting assessment, who are to be kept under supervision in a separate holding bay.
- Each batch of the candidates while waiting for the OSPE in the waiting area should be briefed about the OSPE process and the layout of the OSPE hall as well as the flow of candidates through the hall. They are not to bring any mobile phones or any other technology that could be used for communication within the premises of the examination centre.
- Any student found having mobile phone or any other electronic medium should be removed from the OSPE examination centre and an Unfair Means Case registered against him/ her.
- All candidates will complete a mandatory “Feedback Proforma” and deposit the same confidentially in the sealed collection boxes provided.

Model Questions

OBSERVED STATION

(2 Marks)

Question: How will you proceed for the spectrophotometric analysis of the given sample of glucose?

Steps

1. Adjust the wavelength at 530nm. (0.5 Mark)
2. Add 1 ml of reagent blank into the cuvette. (0.5 Mark)
3. Place the cuvette in the cuvette holder. (0.5 Mark)
4. Adjust zero absorbance for the reagent blank. (0.5 Mark)
5. Add 1ml of sample into the cuvette and measure the absorbance. (1 Mark)

* **A comprehensive check list will be provided to the rater for each step of procedure.**

NONOBSERVED STATION

(2 Marks)

Question: Mention two indications for performing the 24-hour creatinine clearance. Write down the formula for the calculation of creatinine clearance.

Indications for performing creatinine clearance are

(1 Mark)

(any two indications are required, indications maybe other than the following mentioned three indications)

1. Potential kidney donors
2. Investigation of the patient with minor abnormalities of the renal function tests.
3. Calculation of the dose of a potentially toxic (nephrogenic) drug.

Formula to calculate creatinine clearance:

(1 Mark)

Creatinine Clearance in ml/min = $\frac{\text{(Plasma concentration in mg/dl} \times \text{24-hour urinary volume in ml)}}{\text{(urinary creatinine concentration in mg/dl} \times \text{1440)}}$

Note: Where **1440** represents number of minutes in 24 hours

OSPE STATIONS (ANSWER SHEET)
(First Professional MBBS Part – II, Biochemistry)

Station 1

Station 2

Station 3

Station 4

Station 5

Station 6
