CURRICULUM
M.D. (IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION)

Veer Narmad South Gujarat University Surat

Evaluation scheme [applicable from academic year 2019-2020]

Faculty: Medical

Name of course: Immunohaematology and Blood Transfusion (IHBT)

Degree: M.D. Immunohaematology and Blood Transfusion

Duration of Course: 3 Years [6 academic terms]

**ASSESSMENT SYSTEM:**

   [b] quarterly assessment 1: journal based /recent advances
      2: patient based/laboratory skills
      3: self directed learning & teaching
      4: Departmental/interdepartmental learning

[As per the curriculum, training in allied department and at Gujarat cancer research institute, Ahmadabad, the duration of training may be variable or shortened and to be determined as per the admission & availability of post graduate students in the department]

5: external/outreach/CME based

[As per MCI PG rules, it is desirable that post graduate student should have one research paper to be published in indexed journal and should have represented one poster in national conference of ISTM/ISBT/ISTM or in ATM [International].

The student should have attended Immuno hematology workshops/symposiums/outreach programs /visiting lectures at National level.

[c] Periodic: As per Annexure 1

[2] Summative [end of training; as per MCI PG regulations 2000]
- submission before 6 months of examination;
- to be assessed by separate set of 3 three examiners
- One internal & two external examiners, which are not assessing Theory & practical examination.
- Post graduate student is allowed to appear in examination after acceptance of thesis by university.

[2] Theory:
- For MD IHBT 4 papers; each consists of 3 hours and 100 marks;
- Total theory assessment of 400 marks
- 50% marks to be obtained in individual papers for passing.
- For Theory paper setting, either of two options can be followed.

<table>
<thead>
<tr>
<th>Option I:</th>
<th>TOTAL 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] One structured essay question</td>
<td>20 marks</td>
</tr>
<tr>
<td>[2] Six short answer questions</td>
<td>6*10= 60 marks</td>
</tr>
<tr>
<td>[3] Two problem based analysis/interpretation</td>
<td>2*10=20 marks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option 2:</th>
<th>TOTAL 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ten short answer questions (10*10)</td>
<td>100 Total marks</td>
</tr>
<tr>
<td>[1] Six [..............................]</td>
<td></td>
</tr>
<tr>
<td>[2] Four questions [Problem Based Analysis /Interpretation]</td>
<td></td>
</tr>
</tbody>
</table>
[3] Practical: [Clinical & oral] examination for 2 days

Total 600 marks

The Schedule of exercises & distribution of marks, to be arranged by examiners so that

It should be completed accordingly. If candidates are more than 6, then the days of

practical examination should be Increased proportionately.

[a] Long Immuno hematology exercise

- Consisting Minimum 6 exercises [work stations] varying each from 30 - 90 minutes;

- covers all aspects of transfusion medicine including Antenatal serology,

  Alloantibody & Autoantibody detection & Identification, Transfusion reaction

  Work-up, followed by oral viva-voce.

[b] Clinical short case [6 cases /each PG student]

- Administrative issues: Operation of Blood Transfusion Services
  (Donor management, inventory, aphaeresis & Transfusion Transmitted Infections Screening)

- Short exercises (Blood group discrepancy, Component Preparation, Quality Control of reagents & kits), will be followed by oral viva-voce.

(c) Hemotherapy exercises & short cases consisting of:

- Basic hematology – Hb, Hct, Platelet count, PBS examination, WBC

  Count, BT/CT, PT/ APTT etc.

- Specialized techniques – component preparation, stem cell isolation,

  Cryopreservation, automation etc, followed by viva-voce.
[d] Spotting ;   Total 10*5  [25+25]

   Includes [1] 5 spots related with clinical/laboratory situations        25

   [2] 5 spots are OSPE [objective structural practical ex.]           25

[d Oral examination/Viva voce                                      100

   Student will be assessed by all the examiners together, regarding
   Knowledge of subject, comprehension, analytical approach, expression &
   data interpretation.

[e] Communication/presentation skill—Discussion

   Thesis- 10 minute Power point presentation                        50

III) INTERNAL ASSESSMENT OF THE CANDIDATE

Periodic internal assessment of the candidate by the department

**Final marking scheme for MD Immunohaematology & Blood Transfusion**

<table>
<thead>
<tr>
<th>Heads of Passing</th>
<th>Maximum Marks</th>
<th>Minimum marks for passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory</td>
<td>400</td>
<td>200</td>
</tr>
<tr>
<td>Practical and viva-voce</td>
<td>600</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total marks</strong></td>
<td><strong>1000</strong></td>
<td><strong>500</strong></td>
</tr>
</tbody>
</table>

The Prototype distribution of marks to be arranged in mark sheet as follows

<table>
<thead>
<tr>
<th>Sr.no.</th>
<th>Clinical Long case 225</th>
<th>Clinical Short cases 225</th>
<th>Total clinical 450 [225+225]</th>
<th>Viva voce/oral 150</th>
<th>Total practical 600</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Includes 3[a] long ex. 200</td>
<td>Includes 3[b] short exe.200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidate1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidate2</td>
<td></td>
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</tbody>
</table>

It is compulsory for the candidate to pass in theory and practical examination separately in the same attempt.