

Bangladesh Medical University Department of Anatomy Assignments to be Completed by the Residents

*These are meant for assessing different types of competencies, including practical skills and some theoretical aspects important for a resident preparing for an active professional life as a teacher, a researcher, a consultant and a scholar *.*

For PHASE- A only

Serial no.	Assignment	Minimum no. of assignments (and other instructions)
Assignments related to teaching skills		
1.	Preparation of lesson plans of specific types of lesson (lecture / tutorial / practical)	1 in each Block
2.	Model-making and creative demonstration on anatomical topics	1 in each Year in group
3.	Teaching	1 formal 1-hour teaching session (lecture) in front of a departmental audience in each Phase. (In addition, 2 teaching sessions in each Block under the supervision of different Supervisors- from Phase- A Block- 2 onwards)
Assignments related to assessment skills		
4.	Preparation of broad essay questions	3 in each Block
5.	Preparation of SAQ	6 in each Block
6.	Preparation of MCQ	3 in each Block
7.	Preparation of problem-	2 in each Block

	based questions	
8.	Preparation of Structured Essay Questions (SEQs)	3 in each Block
9.	Preparation of OSPE question station with checklists	5 in each Block
Serial no.	Assignment	Minimum no. of assignments (and other instructions)
10.	Preparation of OSPE procedure stations with checklists	2 in each Block
11.	Preparation of illustration-based questions	2 in each Block
12.	Preparation of oral-practical cards following specified semi-structured formats	3 in each Block
13.	Moderation of questions	1 in each Block
Assignments related to instructional materials		
14.	Preparation of OHP transparencies	1 in each Block
15.	Preparation of static PowerPoint slides	1 in each Block
16.	Preparation of animated PowerPoint slides	1 in each Block
17.	Preparation of handouts	1 in each Block
18.	Preparation of models or other innovative instructional materials	1 in each Block
19.	Drawing & labelling	2 from each subject of each Block

Assignments related to in-depth understanding of topics		
20.	Essay-writing (by going through relevant literature)	1 for each Block
Assignments related to the dissection hall		
21.	Dissection of cadaver	The region of the body included in each Block by each batch in a team †
22.	Preparation of museum specimens	2 as a whole
Serial no.	Assignment	Minimum no. of assignments (and other instructions)
Assignments related to the laboratories		
23.	Preparation of hen's egg and its observation	1 as a whole
24.	Preparation of chick embryo whole mounts	Of 3 ages (12 hr / 24 hr / 48 hr / 72 hr)
25.	Preparation of chick embryo sections	3 different sections
26.	Preparation of histology slides- with routine stain	2 from each system
27.	Preparation of histology slides- with special stain	2 stains
28.	Preparation of histology slides- ground section of bone	1 as a whole
29.	Micrometry	2 in a relevant Block
30.	Drawing from microscopic slides by using a drawing tube	2 in a relevant Block
31.	Photomicrography	2 in a relevant Block

32.	Use of special tissue preparation procedures	
33.	Use of special microscopic procedures	
34.	Use of other equipments	
35.	Karyotyping	Once in the relevant Block
36.	DNA cloning through PCR	Once in the relevant Block
37.	DNA/RNA electrophoresis	Once in the relevant Block
Assignments related to collection of reading and instruction material		
Serial no.	Assignment	Minimum no. of assignments (and other instructions)
38.	Online browsing & downloading of material, keeping sequential record of the search	2 in each Block
39.	Collection of reading material	2 in each Block
40.	Collection of illustrations that are not available in the department or in common books	5 in each Block

For PHASE- B only

Assignments related to thesis		
1.	Pre-thesis assignments on research	1 complete set
2.	Pre-thesis assignments on thesis-writing	1 complete set

3.	Formal presentation of thesis protocol	(In front of an audience comprising departmental and extra-departmental members)
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For Both PHASE- A & B

Assignments related to presentation skills		
1.	Journal Club / other presentation	1 in each Block
2.	Seminar presentation	1 in each Block
Assignments related to extracurricular exposure		
3.	Extracurricular reading, listening, viewing etc.	5 in Phase- A and 2 in Phase- B
4	Extracurricular presentation / discussion	2 in Phase- A and 1 in Phase- B
Serial no.	Assignment	Minimum no. of assignments (and other instructions)
Other assignment		
5.	Use of relevant interactive computer software for learning (depending on the availability)	
6.	Attending outside seminar / symposium / conference	1 in each Block (with reporting on the seminar / symposium / conference)
7.	Maintenance of a portfolio	

* The assignments are mandatory and will cover the topics of the respective Blocks. Residents should complete each assignment, get it assessed by the Supervisor related to that particular assignment and record it in the Log Book with signature from the Supervisor.

At least 75% of the relevant assignments must be completed before sitting for the corresponding End-Block Exam. Rest may be carried on to the next Block. If any resident fails to do so, s(he) should apply to the Departmental Academic Committees to allow him / her to carry on the assignments to the next Block, stating reasonable

justification. The committee would decide on the matter and put their comments on the Log Book.

However, all (100%) of the assignments must be completed before applying for the corresponding summative exams.

† In case of unavailability of cadavers for dissection, thorough exposure to prosected cadavers and specimens must be ensured by the department (with help from other institutions, if required).

D:3 Recommended Reading Materials

1	General Anatomy	Principles of General Anatomy- by A. K. Datta
2	Regional Anatomy	Clinical Anatomy- by R. S. Snell or Clinically-Oriented Anatomy- by K. L. Moore, Arthur F. Dalley, Anne M. R. Agur.
3	Anatomical atlas	Grant's Atlas of Anatomy- by A. M. R. Agur & A. F. Dalley. Colour Atlas of Human Anatomy- by R.M.H. McMinn, & R. T. Hutchings
4	Dissection manual	Cunningham's Manual of Practical Anatomy- edited by G. J. Romanes (volumes 1, 2, 3)
5	Surface Anatomy	Anatomical Basis of Clinical examination- by John S. P. Lumley
6	Diagnostic images (Radiological Anatomy) and Sectional Anatomy	(Images in Snell's, Moore's & supplied images)
7	Preservation of dead bodies & museum techniques	Embalming: Principles & Legal Aspects- by M. L. Ajmani (selected parts) (Supplied materials)
8	Physical Anthropology & Forensic Anatomy	(Supplied materials)
9	Comparative Anatomy	Comparative Anatomy of Vertebrates- by G. Kent (selected parts) (and supplied materials)
10	Developmental Anatomy	Langman's Medical Embryology- edited by T. W. Sadler
11	Chick embryo practical	Embryology of Chick and Pig- by B. M. Harrison An Atlas of Embryology- by W. H. Freeman & B. Bracegirdle (selected parts) A Laboratory Manual of Embryology- selected parts of a book by L. B. Arey

12	Anatomy of reproduction (including assisted reproduction)	(Supplied materials)
13	Genetics & Molecular Biology	Emery's Elements of Medical Genetics- edited by P. D. Turnpenny & S. Ellard
14	Cell Biology & Histology	Junqueira's Basic Histology: Text & Atlas- by Junqueira & Carneiro or Histology: A Text & Atlas- by M. H. Ross & W. Pawlima
15	Histology atlas	Functional Histology: Text & Atlas- by Weater et al. or de Fiore's Atlas of Histology with Functional Correlations- edited by V. P. Eroschenko
16	Histology practical manual	Manual of Histologic and Special Techniques- by M. F. Gridley Theory and Practice of Histological Techniques- by J. D. Bancroft (and supplied materials)
17	Microscopy manual	Theory and Practice of Histological Techniques- by J. D. Bancroft (and supplied materials)
18	Neuroanatomy	Clinical Neuroanatomy- by R. S. Snell
19	Research Methodology & research writing	Essentials of Writing Biomedical Research Papers- by M. Zeiger (and supplied materials)
20	Biostatistics	(Supplied materials)
21	Medical Education	(Supplied materials)
22	Extra-curricular activity	(Supplied materials)

Above is a primary list of reading materials. In addition, many other books are available in the department on each of the above topics. Selected portions of these books are recommended by the teachers while facilitating residents' learning. Handouts and collected materials from online sources are also used. The departmental library also has a rich collection of illustrations and relevant diagnostic images.