



UNIVERSITY OF CALCUTTA

Notification No. CSR/01/20

It is notified for information of all concerned that the Syndicate at its meeting held on 13.11.2019 (vide Item No.12) subsequently confirmed by the Syndicate 24.12.2019 (Item No.01) approved some amendments in the Syllabus of semester wise three-year B.Sc. courses studies in Physiology (Honours) under CBCS (vide CSR/12/18, dt. 04.6.18), under this University, as laid down in the accompanying pamphlet.

The above shall be effective for all the concerned semester & will start from the even semester examinations, 2020.

SENATE HOUSE

KOLKATA-700 073

The 13th January, 2020.

A handwritten signature in black ink, appearing to read 'D. Das'.

Prof.(Dr.) Debasis Das

Registrar

Bayal
13.1.20

Amendments of the Physiology (Honours) Syllabus:

- a) CC1P - Demonstration of osmotic fragility test of goat blood R.B.C.
- b) CC4P - Instead of "Basic concepts of brain imaging ----- using CT scan and MRI images" the following are to be included- Biceps jerk, Knee jerk, Plantar reflex, Babinski sign etc. (Dr. Somnath Gangopadhyay will conduct this part in the workshop).
For some practical experiments usage of mercury keys should be avoided considering its health hazard.
- c) CC6P- "Interpretation of Kymographic recording" to be replaced by "Kymographic recording of adrenaline and excess K⁺ on perfused heart of toad."
Demonstration of ECG. Interpretation of ECG recording.
- d) CC7P- Instead of "Lung function tests---- analysis of results" it should be "Pulmonary function tests using Spirometry (manual) and analysis of results."
Inclusion of Peak Flow meter.
- e) CC9P- Estimation of serum protein by Biuret method instead of Lowry method.
Mouth pipetting of blood is to be avoided. Blood/ serum is to be pipetted out by Pipetman.
Paper chromatography for separation of aminoacids instead of Thin layer chromatography.
- f) CC10P- Diet survey report on student's own family for seven consecutive days (for discussion in workshop).
- g) CC12P- Omit 'Study of effects of oxytocin---- albino rat'. 'PAS staining of histological sections of liver' to be included.
- h) CC13P- Omit Pregnancy Test.
- i) DSEB4P- Instead of 'Kymographic recording of the effects of--- perfused heart of toad' -- the following is to be included '1) Kymographic recording of the effect of acetylcholine before and after application of atropine (using single dose of each). 2) Kymographic recording of the effect adrenaline before and after application of propranolol (using single dose of each)'.
- j) SECA--- Under Hematological techniques --- 1) Platelet count, Reticulocyte count and absolute count of Eosinophil to be included after 'Arneeth count'. 2) Bone marrow suppression and transplantation to be included after Purpura.

Under Clinical Biochemistry--- 1) To Include homocysteine, after Ketone bodies. 2) To include Adiponectin and Leptin after Cardiac Troponins.