



# WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

WBSU/Reg/Affiliated/Programme/285/2021-22

Ref. No. : .....

Date : ..... 10.12.2021

## To Whom It May Concern

This is to certify that the following Undergraduate (UG) & Post Graduate (PG) Programmes / Courses under Choice Based Credit System (CBCS) are currently taught in Bhairab Ganguly College (College Code: 107), affiliated to West Bengal State University (WBSU).

Programme Code	Name of Programme	SUBJECT /COURSE	Year of Implementation of CBCS
BNGA	<b>B.A. (Honours)</b>	Bengali	2018
ENGA		English	2018
SANA		Sanskrit	2018
URDA		Urdu	2018
EDCA		Education	2018
HISA		History	2018
JORA		Journalism and Mass Communication	2018
PHIA		Philosophy	2018
PLSA		Political Science	2018
BOTA	<b>B.Sc. (Honours)</b>	Botany	2018
CEMA		Chemistry	2018
CMSA		Computer Science	2018
ELTA		Electronic Science	2018
MTMA		Mathematics	2018
PHSA		Physics	2018
FNTA		Food and Nutrition	2018
PHYA		Physiology	2018
ZOOA		Zoology	2018
ECOA		Economics	2018
GEOA		Geography	2018
FACA	<b>B.Com.(Honours)</b>	Accountancy	2018
ASPA		Advertising and Sales Promotion	2018
	<b>B.A. (General)</b>	B.A. (General)	2018
	<b>B.Sc. (General)</b>	B.Sc. (Bioscience)	2018
		B.Sc. (Pure Science)	2018
		B.Sc. (Special Science)	2018
	<b>B.Com.(General)</b>	B.Com. (General)	2018
ENGM	<b>M.A.</b>	English	2019
URDM		Urdu	2021
GEOM	<b>M.Sc.</b>	Geography	2019
AFM	<b>M.Com</b>	Accounts & Finance	2021

*Banta*  
10/12/2021  
Registrar (Officiating)  
West Bengal State University

*Registrar (Officiating)*  
West Bengal State University

## **Post-Graduate Department of Commerce, Bhairab Ganguly College**

**Draft Minutes of the Post Graduate Board of Studies of the Department of Commerce, Bhairab Ganguly College held on 05.10.2021 from 8.00 pm through google meet Link <https://meet.google.com/mek-donf-dhk>.**

The following members were present:

Professor (Dr.) Subhranil Som	Principal, Bhairab Ganguly College.
Professor (Dr.) Pranam Dhar	Chairperson – HoD, Commerce & Management, WBSU.
Professor (Dr.) Ananda Mohan Pal	External Member
Professor (Dr.) Arindam Laha	External Member
Dr. Surajit Sengupta	Coordinator & HoD
Dr. Sanjit Kumar Das	Invitee member
Rozy Lasker	Invitee member
Sri Amitava Saha	Invitee member
Sri Vijay Anand Sah	Invitee member

At the outset, Honourable Chairperson Professor Pranam Dhar welcomed all the Board Members and proposed Hon'ble Principal Professor (Dr.) Subhranil Som to act as the permanent invitee member of the PG-BOS and all the departmental faculty members to act as the invitee members as and when required. Hon'ble Principal, Professor (Dr.) Subhranil Som motivated departmental faculty members through his motivational speech.

### **Item No BOS/01/01: Introduction of M.Com CBCS Syllabus from the current Academic Year 2021-2022**

Resolved unanimously that the M.Com CBCS Syllabus, as per the syllabus of the mother department, i.e., Department of Commerce & Management, West Bengal State University, be introduced from the current Academic Year 2021-22 for the first semester. Further, resolved that the syllabus for the third semester be continued as per the existing syllabus as framed by the earlier Board of Studies for Post-Graduate Course in Commerce, Bhairab Ganguly College.

### **Item No BOS/01/02 : Any other Business**

**Item No. (a) :** Hounarable Chairperson Professor Dhar has suggested to prepare Mentor-Mentee list from the current academic session and also suggested to keep register of advance-learner and slow-learner separately by every post-graduate faculty member and also record the remedial measures taken, if any, for slow-learners in the appropriate register.

**Item No. (b) :** Hounarable Chairperson Professor Dhar has suggested to submit a declarations by all the faculty members of the Post-Graduate Department of

Commerce to the Principal mentioning their non-involvement in private tuition of the students of the said course which has been unanimously accepted by the House. Furthermore, He also suggested that every faculty members should declare their engagement and take prior permission for teaching post-graduate courses in other university/institution, in order to help the HOD to prepare the workload of the departmental teachers and also to hire guest teachers on remunerative basis. Professor Ananda Mohan Pal, expressed his note of descent in this particular issue.

Both the items were agreed upon by the members present.

There being no other item to discuss, the meeting ended with a vote of thanks to and from the Chair.

Date : 05.10.2021.


**Chairperson**  
**Post Graduate Board of Studies**  
**( Commerce)**  
**Bhairab Ganguly College.**





# BHAIRAB GANGULY COLLEGE

## P.G. DEPARTMENT OF URDU

### SYLLABUS FOR THE M.A. DEGREE IN URDU

To be effective from the Academic Session : 2021

Sem.	Course	Course Title	Credit	Marks	Total
<b>I</b>	CC 1	تاریخ ادب اردو آغاز تا حال	4	50	Marks : 275 Credits : 22
	CC 2	کلاسیکی اردو غزل	4	50	
	CC 3	اردو میں غیر افسانوی ادب: انشائیہ، سوانح، خودنوشت	4	50	
	CC 4	اردو داستان اور حکایت	4	50	
	CC 5	اردو ناول	4	50	
	AECC	کمپیوٹر میں اردو	2	25	
<b>II</b>	CC 6	اردو لسانیات	4	50	Marks : 275 Credits : 22
	CC 7	جدید اردو غزل	4	50	
	CC 8	اردو میں غیر افسانوی ادب: خاکہ، مقالہ، طنز و مزاح	4	50	
	CC 9	اردو افسانہ اور ڈراما	4	50	
	CC 10	قصیدہ، مرثیہ، مثنوی	4	50	
	SEC	کمپیوٹر اور اردو	2	25	
<b>III</b>	CC 11	اقبالیات - I	4	50	Marks : 300 Credits : 24
	CC 12	اقبالیات - II	4	50	
	CC 13	اردو نظم	4	50	
	CC 14	انیسویں صدی اور بنگال کا اردو ادب	4	50	
	CC 15	بیسویں صدی اور بنگال کا اردو ادب	4	50	
	GEC	اردو غزل	4	50	
	DSE 1A	میریات	4		
	DSE 1B	غالبیات	4		
<b>IV</b>	CC 16	ادبی تحریکات	4	50	Marks : 300 Credits : 24
	CC 17	اردو تنقید: ترقی پسند تحریک سے قبل	4	50	
	CC 18	اردو تنقید: ترقی پسند تحریک کے بعد	4	50	
	CC 19	ماس میڈیا اور ترجمہ	4	50	
	DSE 2A	پہم چند	4		
	DSE 2B	قرۃ العین حیدر	4		
	CC 20	پروجیکٹ ورک	8	100	



## Meeting -

P.G. Department of Urdu

A meeting of 'BOS' P.G. Department of Urdu was held on 12-08-2021 at 2:00 p.m. on Google meet to discuss the following agenda given below -

Meeting Code:- xso-owaj-cgy

The meeting was presided by Dr. Masoom Hasan Ansari, Chairperson, Board of Studies.

## Agenda:-

- 1) Confirmation of proceeding of last meeting.
- 2) To discuss, select, introduce new P.G. Urdu Syllabus according to CBCS.
- 3) To discuss and finalized the name of faculty members for distribution of Syllabus.
- 4) Misc.

Following members are presented in the meeting -

- 1) Dr. Masoom Hasan Ansari
- 2) Prof. Md. Taryab Nuamani
- 3) Dr. Abu Baker Jeelani
- 4) Dr. SK. Almas Hossain

## Resolutions:-

1) Dr. Masoom Hasan Ansari read the resolution of the meeting dated 05-08-2021 and all the minutes also resolutions were accepted and confirmed by the members of 'BOS'.

2) To discussed and It was decided and finalized ~~at~~ new P.G. Urdu Syllabus according to CBCS.

Syllabus



- 3) ~~Before~~ It was discuss the new faculty members. So, Prof. Shahzadi was elected for taken classes before distribution of P.G. Urdu Syllabus.

### Modules of Syllabus.

Syllabus Semester I & III were distributed among the following faculty members.

Sl. NO.	Faculty members	Sem - I	Sem - III
1-	Dr. M. H. Ansari	CC-1 & CC-5	paper-9
2-	Prof. M. T. Nuamari	CC-3 & AECC	paper-10
3-	Prof. Shahzadi	CC-4	paper-11
4-	Dr. A. B. Jeelani	CC-2	paper-12

It was decided that the classes of P.G. Urdu will be started as soon as possible.

The routine of P.G. Urdu classes (Sem-I and Sem-III) was prepared by the members.

Misc. Nil.

Lastly the president of the meeting thanked the 'BOS' members for attending the meeting.

Read & Confirmed  
Allanin  
17/12/21

Allanin  
25/08/21  
President of the meeting

**Minutes of the Seventeenth Meeting of Board of Studies for P.G. Course in English held on 03/06/2019, at 2:00 p.m. in the department of English of the College.**

**Agendum 1: To confirm the minutes of the last meeting of Board of Studies held on 20.02.2018**

- Minutes of the last meeting is unanimously confirmed.

**Agendum 2: To ratify the names of paper setters, moderators, examiners, scrutineers and tabulators for Semester I and Semester III as well as Semester II and Semester IV, of 2018 and 2019 respectively.**

- No changes have been made to the already existing list of paper setters, moderators, examiners, scrutineers and tabulators.
- Prof. Chidananda Bhattacharya suggested the name of Prof. Bristi Basu from Rabindra Bharati University as a new inclusion to the list of external moderators. Prof. Chandrava Chakraborty suggested the name of Prof. Somak Mondal, WBSU for the same.

**Agendum 3: To discuss matters related to the formation of a question bank for P.G. examinations**

- The BOS members unanimously decided that no framed questions will be provided to the students. To ensure that the students read the texts, a number of text oriented topics will be discussed by the respective teachers.

**Agendum 4: Miscellaneous**

- Following the UGC regulation, the members of the Board of Studies recommended the implementation of the Choice Based Credit System (CBCS) curriculum for PG English with effect from the academic session 2019-2020. The newly devised CBCS curriculum has been approved by West Bengal State University, where the entire PG course shall be divided into 4 semesters, each of six months duration. The department with the approval of Board of Studies, shall determine the question pattern and prepare the questions accordingly.
- It was suggested that the department may take external help from veteran teachers to meet the pressure of ever-increasing number of classes.

As there was no other agendum for discussion, the meeting concluded with thanks to the chair.



To  
The Members  
PG Board of Studies  
Bhairab Ganguly College

Respected Members,

This is for your kind information that the P.G Board of Studies meeting of Bhairab Ganguly College will be held on 19.05.2018 (Saturday) at 11:30 am. The agenda of the meeting are given below:

Agenda

1. To read and confirm the proceedings of last meeting.
2. Selection of the names of paper setter, examiners, scrutineers, coordinator and moderator for SEM II and IV examination, 2018.
3. Academic progress
4. Miscellaneous.

I will be much obliged if you kindly make it convenient to attend the meeting.

Thanking You

Yours sincerely

*Subhamita Chaudhuri*

Convener (Ex-officio)  
PGBOS, Bhairab Ganguly College

Copy to:

1. Dr. Subhamita Chaudhuri
2. Prof. Saswati Mookherjee
3. Prof. Lakshminarayan Satpati
4. Prof. Ramkrishna Maity
5. Dr. Ajit Kumar Sil
6. Dr. Sukla Basu (Invitee Member)
7. Bikash Ghosh (Invitee Member)
8. Manisha Hembrem (Invitee Member)

*Members present in the meeting dated 19/05/18*

1. *Subhamita Chaudhuri 19.5.18*
2. *Saswati Mookherjee 19.5.18*
3. *Ajit Kumar Sil 19/05/18*
4. *Ramkrishna Maity 19/05/2018*
- 5.
- 6.
7. *Bikash Ghosh*
8. *Member 19/05/18*



Proceedings of the last meeting have been read and confirmed

~~Attached in attached.~~ A separate sheet has been attached of the names of paper setter, moderator, examiners, scrutineers, coordinator for SEM II and SEM IV.

From 2018-19 session, WBSU Group 1 syllabus to be followed.

- Specimen paper selection related to <sup>PG, BS, WBSU</sup> in consultation with the department.

~~Provisional~~

- All full time teachers of the department ~~should~~ <sup>will</sup> be present as invitee members and in charge of the department is to act as the ex-officio convenor. Mrs. An. Sulda Barua, <sup>Associate Professor, WBSU</sup> will participate as invitee member. This is to be effective from the next meeting.

- From the academic session 2018-19, all papers are to be evaluated by at least 2 (two) internal/<sup>departmental</sup> External examiners. In charge is to see that all papers are to be taught by not less than 2 teachers.



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24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No : WBSU/Reg/Math/CBCS/Decision/240/18-19

Date : 25.07.2018

To  
The Principal/TIC's/OIC's of  
All affiliated Colleges under WBSU

Sir/Madam

I am directed to inform you that, the UG BOS of Department of Mathematics, West Bengal State University in its Meeting held on 23.04.2018 has prepared all questions papers of B.Sc Mathematics (Hons. & General) to be set in English only under Choice Based Credit System. This is for your perusal.

Thanking you  
Yours faithfully

  
Registrar (Officiating)  
West Bengal State University

*Registrar (Officiating)*  
West Bengal State University  
Barasat, Kolkata-700126

Enclosure: Copy of Resolution of UG BOS



# Department of Mathematics

Question Pattern and Regulation for internal assessment of Mathematics (B.Sc. Honours and General) under Choice Based Credit System (CBCS) of WEST BENGAL STATE UNIVERSITY, BARASAT

**Note :** All Question Papers to be set in English only, there will be no version in any other language.

## B.Sc. (Honours and General) in Mathematics

### 1. Marks and Question pattern for 6 credit Theoretical Courses :

**Total Marks : 75 (Internal assessment-25 and End Term Examination- 50)**

Out of the 25 marks allotted as internal evaluation the breakup of marks will be as follows :

- a) Attendance : 05 (as per University regulation )
- b) Class test (at least two) : 10
- c) Assignment : 10

Mode of assignment : A set of problems may be handed out to the students at the beginning of the semester, to be worked out and submitted to teacher by a fixed date or the class may be divided into groups and set to work on separate problems related to the course.

### End Term Examination-50

#### Question Paper pattern :

10 marks will be devoted to short answer type questions. 5 (out of 8) questions of 2 marks each to be answered.

Remaining 40 is divided into 5 questions (out of 8 choices) of 8 marks each, each such question may be subdivided into two or more parts.

### 2. Marks and Question pattern for 6 credit (Theoretical + Practical) Courses :

#### Theoretical 4 Credits, 50 marks :

Internal Assessment 10 marks with following breakup :

- a) Attendance : 02 (as per University regulation )
- b) Class test : 04
- c) Assignment : 04

Mode of assignment : A set of problems may be handed out to the students at the beginning of the semester, to be worked out and submitted to teacher by a fixed date or the class may be divided into groups and set to work on separate problems related to the course.

Approved  
for

23.04.18

23/4/18

23/4/18

23.04.18

23/4/18

### End-Term Examination 40 Marks

#### Question Paper pattern :

8 marks will be devoted to short answer type questions. 4 (out of 7) questions of 2 marks each to be answered.

Remaining 32 is divided into 4 questions (out of 7 choices) of 8 marks each, each such question may be subdivided into two or more parts.

### Practical 2 Credits, 25 marks

Internal Assessment : 15 marks with following breakup :

- a) Attendance : 03 (as per University regulation )
- b) Examination (to be conducted by College after completion of the Course) : 12

#### End-Term Examination 10 with following breakup :

Viva-Voce : 07

Lab Note Book : 03

Viva-voce will be conducted by external examiner appointed by University.

### 3. SEC for both Honours and General Courses

All assessment and evaluations to be done by College.

Marks Distribution :

Total Marks : 25

Breakup as follows:

- a) Attendance : 05 (as per University regulation )
- b) End-Term Examination : 20

Question Pattern : 3 short answer type questions of 2 marks each, out of 5 options and 2 questions of 7 marks each, out of 4 options.

*[Handwritten signatures and dates]*  
23/4/18  
23/4/18  
23/4/18  
23/4/18



To

The Hon'ble Vice-Chancellor

West Bengal State University

Barasat

06/08/2018

Sub: Addendum & Corrigendum to Recommendation of the UGBoS in Physics on the modalities of implementation of the undergraduate curriculum

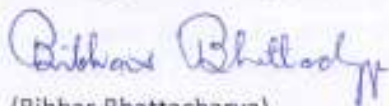
Respected Sir,

The recommendation of the UGBoS in Physics on the modalities of implementation of the undergraduate curriculum for both Honours and General courses has already been notified to the affiliated colleges under WBSU.

I hereby attach the addendum (on detailed assignments of the computational Lab for Hons. Course) and a typographical corrigendum to the aforesaid "Recommendation".

These addendum and corrigendum should reach the colleges at the earliest. Please take necessary action.

Thanking you. With regards,

  
(Bibhas Bhattacharya)

Chairperson, UGBoS in Physics

West Bengal State University

Regintan (c)  
Received on 06/08/2018.  
To be sent to all UG  
colleges having Physics (Hons)  
at the UG  
corrigendum UG  
applying to level in UG-  
Hons. and UG-Gen.  
MS  
06/08/2018

Recommendation of the UGBOS in Physics on the modalities of implementation of the undergraduate CBCS curriculum for both Honours and General courses

Please note the following addendum and corrigendum to the above-mentioned "Recommendation" notified earlier.

(I) ADDENDUM:

**List of assignments for Computational Labs (Honours Course):**

Each computational Physics laboratory courses has ten (10) assignments. All of them are compulsory.

The mentioned programs are examples only. Each year the students should be given similar but different assignments and in the end semester examination students may be asked to write any simple program of similar difficulty level. It is expected that students should be able to learn how to write their programs of their own.

**SEMESTER I**

**Mathematical Physics Lab**

**1. Introduction to plotting graphs with QtiPlot (or equivalent)**

a) Basic 2D and 3D graph plotting - plotting functions, modifying the appearance of graphs, polar and parametric plots, Surface and contour plots, exporting plots.

Importing multicolumn data. Plotting and fitting data using qtiplot's fit function,

**2. Introduction to programming in python:**

- Python as a number calculator
- algebraic calculation through python interactively
- help searching of functions (from `__builtins__`, idea of default argument)
- Importing modules like `math`, `cmath` modules and)
- standard I/O statements (`input`, `raw_input`, `print`)
- string, list, tuple and the corresponding methods. (In the interactive mode. Slicing, Help searching for methods.)



- program with formula crunching.
- Control structures (use of simple programs to learn the use of if, if-elif-else, for, while, try-except)

### 3. Programs as applications

- finite series summation [Example: AP, GP, power series, trigonometric series etc.]
- Taylor series summation with a given precision [for different  $f(x)$  about  $x=0$  or about some non-zero value and comparison with library functions, where available]

### 4. File handling in Python

- File I/O statements: Example programs like
  1. File I/O : Create a three column data (x,y,z) file using a text editor. Read it from python. Find the sum and standard deviation of y and z .
  2. File I/O: Create a single column data containing repetitive integers of at least 20 entries. Read the file. Find the frequency table of the distinct elements. Output that in another file.

### 5. Least square fitting

- Linear and linearized Least square fitting with supplied data. The final fit should be displayed through Qtiplot or a similar software. Use data recorded from the suitable experiments in Mechanics paper. The data from the other labs ( $\mu - \lambda$  curve, or Cooling curve) may be supplied by the instructor

### 6. User defined functions in Python

- User defined function, default argument, global

Example: Write functions for

i)  $f(x) = x!!$  ii)  $f(n)$  = nth element of the Fibonacci sequence

ii) linspace (sta, stp, N), the third being a default argument

linspace function generates list of N elements starting with sta and ending with stp.

iii) Write function  $f(a, x) = \exp(-ax) \sin(x)$  : a being a global arguments

### 7. synthetic data generation and plotting

- synthetic data generation following any function, saving the data in a text file and plotting with QtiPlot (or equivalent).

This assignment should explore systematic variation of the shape of the curve if one of

the parameter of the function is varied. For example the variation of the shape of the Legendre polynomials with the degree.

#### 8. a. largest and smallest values within a dataset

- Finding largest and smallest values over a time-series data and the position of occurrence.

#### b. Estimation of largest and smallest values of a function

- Estimating largest and smallest values of a function identifying their locations within an interval using fixed step size.

#### 9. a. Solution of Algebraic and Transcendental equations by Bisection Method

- Root finding: Bisection (Initial guess to be determined by plotting) for non-linear equations.
- Determination of time of journey for a moving particle obeying  $x=f(t)$  or similar problems are to be worked out.

#### 9. b. Solution of Algebraic and Transcendental equations by Newton Raphson Method

- Root finding: Newton Raphson Method (Initial guess to be determined by plotting) for non-linear equations.
- Applications in simple physical problems (including those of mathematical Physics) for are to be practiced.

#### 10. Errors due to Computational Process

(a) Write a program that takes as input three numbers,  $a$ ,  $b$ , and  $c$ , and prints out the two solutions to the quadratic equation  $ax^2 + bx + c = 0$  using the well known formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Use your code to compute the solutions of  $ax^2 + bx + c = 0$ , for  $a=0.001$ ,  $b=1000$  and  $c=0.001$ .

(b) Show that the solution of the quadratic equation  $ax^2 + bx + c = 0$  can also be written as

$$x = \frac{2c}{-b \mp \sqrt{b^2 - 4ac}}$$

Now extend your code to calculate the second set of roots. Use the program to solve



$ax^2 + bx + c = 0$  using same set of  $a$ ,  $b$  and  $c$  as in the previous case.

(c) Find whether there is any difference between these two results and explain it. Use other sets of  $a$ ,  $b$  and  $c$ .

(II) CORRIGENDUM:

The first Paragraph of Clause 1(b) of the aforesaid "recommendation" as already circulated, should be read as:

"Question No. 1. Short answer type, 2 marks each: Student has to answer 15 questions out of a total of 20 questions (marks  $2 \times 15 = 30$ ). This question is compulsory."

instead of:

"Question No. 1. Short answer type, 2 marks each: Student has to answer 15 questions out of a total of 20 questions (marks  $2 \times 10 = 20$ ). This question is compulsory."

Recommendation of the UGBOS in Physics on the modalities of implementation of the undergraduate  
CBCS curriculum for both Honours and General courses

1. Question pattern for the *Theory* papers of the end semester examinations will be as follows

a) FM 40: For the *theoretical* (T) component of each paper of credit 4(T)+2(P)

Question No. 1. Short answer type, 2 marks each: Student has to answer 10 questions out of a total of 14 questions (marks  $2 \times 10 = 20$ ). This question is compulsory.

Question No.s 2-5: Each of marks 10 having more than one part which may not be related the each other. A student has to answer two out of these four questions (marks  $10 \times 2 = 20$ ).

b) FM 50: For all papers of credit 5 (Theory) +1 (Tutorial)

Question No. 1. Short answer type, 2 marks each: Student has to answer 15 questions out of a total of 20 questions (marks  $2 \times 10 = 20$ ). This question is compulsory.

Question No.s 2-5: Each of marks 10 having more than one part which may not be related the each other. A student has to answer two out of these four questions (marks  $10 \times 2 = 20$ ).

In both the above cases the questions should be distributed evenly over the whole syllabus.

2. Marks in Internal assessment for the *Theory* papers:

a) For the *theoretical* (T) component of each paper of credit 4(T)+2(P) :

Total internal marks-10 which has two components:

- i) Attendance: 2 (The lookup table for marks on attendance is provided in the CBCS regulation of West Bengal State University)
- ii) Continuous assessment: 8 which should be evaluated on the basis of class tests

b) For all papers of credit 5 (Theory) +1 (Tutorial) :

Total internal marks-25 which has two components:

- i) Attendance: 5 (The lookup table for marks on attendance is provided in the CBCS regulation of West Bengal State University)
- iii) Continuous assessment: 20 which should be evaluated on the basis of class tests

3. For *Practical* papers: Full marks 25

This has two components, i) internal assessment: 15, ii) end semester examination: 10

i) Internal Assessment will consist of

- (I) 3 marks on attendance (The lookup table for marks on attendance is provided in the CBCS regulation of West Bengal State University), and
- (II) 12 marks on continuous assessment of the performance of the student. The modalities of this assessment will be as follows

Reginm(o)/S.c.  
Pl send to  
all the Principals  
of the affiliated  
colleges.  
Principals requested  
to pass on to  
the Head  
of the  
Department  
of Physics.

31/05/2018



a) **General (non-computational) Labs:**

Students performing <i>satisfactorily</i>	Marks to be awarded
01 experiment	3
02 experiments	4
03 experiments	5
04 experiments	6
05 experiments	7
06 experiments	8
07 experiments	9
08 experiments	10
09 experiments	11
10 experiments or more	12

However, for the first session each slab will be augmented by 02 marks subject to a ceiling of maximum of 12 marks.

b) **Computational Labs (for Honours course only):**

[Papers e.g. PHSACOR01P, PHSACOR05P, PHSACOR08P, PHSACOR11P, PHSACOR14P and PHSADSE01P]

Students performing <i>satisfactorily</i>	Marks to be awarded
01 assignment	3
02 assignments	4
03 assignments	5
04 assignments	6
05 assignments	7
06 assignments	8
07 assignments	9
08 assignments	10
09 assignments	11
10 assignments or more	12

ii) **End semester examination : Total of 10 marks will have the following break up:**

a) **General Lab:**

- A) Hands-on skill test : 4
- B) Viva on basic principles of experiments in the syllabus: 3
- C) Viva on instruments involved in experiments in the syllabus: 3

b) **Computational Lab:**

- A) Viva on underlying principles of the assignments covering the syllabus: 5
- B) Assessment of the programming skill: 5

4. **Skill enhancement courses:** FM 25

This has two components- i) Attendance: 5, ii) end semester examination: 20.

The end semester examination should consist of both hands-on demonstration and viva covering the entire syllabus.

• **Note on the Laboratory courses:**

**General (non-computational) Labs:**

1. Each college has to set the first 8 experiments mandatorily from the list of experiments in each paper.
2. When the course is run in a college for the first session \* number of such mandatory experiments will be 6 out of the 8 experiments mentioned in 1 above.
3. The college has to send, under the signature of the principal/TIC/OIC, to the centre of the examination the list of experiments set by the college in absence of which it will be assumed that the college has set all the mandatory experiments. This list should be forwarded by the centre to the Head Examiner/ Coordinator of the concerned paper.
4. A student has to perform satisfactorily 60% of the experiments set by the college, in a given paper, to take the end semester examination in the corresponding paper (as per CBCS regulation of the West Bengal State University).
5. If a college cannot set all the mandatory experiments, the students of the said college will NOT be allowed to appear in the examination. Exemptions to this can be allowed under special circumstances and with a special permission *in writing* from the Vice-Chancellor well ahead of the examination.

**Computational Labs (for Honours courses):**

1. A list of assignments for each paper, based on the prescribed syllabus of the corresponding paper, will be sent to the colleges.
2. All the assignments are mandatory and a student has to perform satisfactorily 60% of the assignments, in a given paper, to take the end semester examination in the corresponding paper (as per the CBCS regulation of West Bengal State University).
3. In Computer Labs not more than one student should be allotted to a terminal at a time.

**For both General and Computer Labs:** The Laboratory Note Book (LNB: necessarily a **bound note book**) of a student should reflect the continuous assessment in the form of signatures by the teacher(s) at regular intervals. On successful completion of an experiment/ assignment by a student, the concerned teacher will sign the LNB at the corresponding page with a note "satisfactorily performed". **This LNB is to be mandatorily submitted at the time of end semester examination** and the centre should note the actual number of experiments/ assignments *satisfactorily* performed by the student in the concerned paper.



To  
The Principals  
of all the Undergraduate Colleges  
offering B.Sc. (Honours & General)  
in Mathematics affiliated to  
West Bengal State University, Barasat


Date: 10.07.2018

Sub: Question Pattern and Regulation for internal assessment of Mathematics (B.Sc. Hons. & Gen.)

Sir,

The UG BOS of Department of Mathematics, West Bengal State University in its meeting held on 23.04.2018 approved the following Question Pattern and Regulation for internal assessment of Mathematics (B.Sc. Hons. & Gen.) under Choice Based Credit System.

Thanking you,  
Yours Sincerely,

 10.07.2018

Dr. B. Sahu  
Head of the Department of Mathematics, WBSU  
and Chairperson/Convener, UGBOS, Mathematics

# Department of Mathematics

**Question Pattern and Regulation for internal assessment of Mathematics (B.Sc. Honours and General) under Choice Based Credit System (CBCS) of WEST BENGAL STATE UNIVERSITY, BARASAT**

**Note : All Question Papers to be set in English only, there will be no version in any other language.**

## **B.Sc. (Honours and General) in Mathematics**

### **1. Marks and Question pattern for 6 credit Theoretical Courses :**

**Total Marks : 75 (Internal assessment-25 and End Term Examination- 50)**

Out of the **25** marks allotted as internal evaluation the breakup of marks will be as follows :

- a) Attendance : **05** (as per University regulation )
- b) Class test (at least two) : **10**
- c) Assignment : **10**

Mode of assignment : A set of problems may be handed out to the students at the beginning of the semester, to be worked out and submitted to teacher by a fixed date or the class may be divided into groups and set to work on separate problems related to the course.

### **End Term Examination-50**

#### **Question Paper pattern :**

**10** marks will be devoted to short answer type questions. **5** (out of **8**) questions of **2** marks each to be answered.

Remaining **40** is divided into **5** questions (out of **8** choices) of **8** marks each, each such question may be subdivided into two or more parts.

### **2. Marks and Question pattern for 6 credit (Theoretical + Practical) Courses :**

#### **Theoretical 4 Credits, 50 marks :**

Internal Assessment **10** marks with following breakup :

- a) Attendance : **02** (as per University regulation )
- b) Class test : **04**
- c) Assignment : **04**

Mode of assignment : A set of problems may be handed out to the students at the beginning of the semester, to be worked out and submitted to teacher by a fixed date or the class may be divided into groups and set to work on separate problems related to the course.



### **End-Term Examination 40 Marks**

#### **Question Paper pattern :**

8 marks will be devoted to short answer type questions. 4 (out of 7) questions of 2 marks each to be answered.

Remaining 32 is divided into 4 questions (out of 7 choices) of 8 marks each, each such question may be subdivided into two or more parts.

### **Practical 2 Credits, 25 marks**

Internal Assessment : 15 marks with following breakup :

- a) Attendance : 03 (as per University regulation )
- b) Examination (to be conducted by College after completion of the Course) : 12

#### **End-Term Examination 10 with following breakup :**

Viva-Voce : 07

Lab Note Book : 03

Viva-voce will be conducted by external examiner appointed by University.

### **3. SEC for both Honours and General Courses**

**All assessment and evaluations to be done by College.**

Marks Distribution :

Total Marks : 25

Breakup as follows:

- a) Attendance : 05 (as per University regulation )
- b) End-Term Examination : 20

Question Pattern : 3 short answer type questions of 2 marks each, out of 5 options and 2 questions of 7 marks each, out of 4 options.

**B.COM (HONS.)**

**Year 1: Semester 1**

Subject Code	Subject	Marks in each Question	No. of Questions to be Answered	No. of Questions to be set
FACACOR01T	Financial Accounting I	10 15	2 2	3 3
FACACOR02T	Principles & Practice of Management	2 5 10	5 4 2	8 6 20
FACHGEC01T	Business Economics	2 5 10	5 4 2	8 6 20

**B.COM (GENL.)**

**Year 1: Semester 1**

Subject Code	Subject	Marks in each Question	No. of Questions to be Answered	No. of Questions to be set
FACGCOR01T	Financial Accounting I	10 15	2 2	3 3
FACGCOR02T	Principles & Practice of Management	2 5 10	5 4 2	8 6 20
FACGGEC01T	Business Economics	2 5 10	5 4 2	8 6 20

**B.B.A. (HONS.)**

**Year 1: Semester 1**

Subject Code	Subject	Marks in each Question	No. of Questions to be Answered	No. of Questions to be set
BBAACOR01T	Principles of Management & Organizational Behaviour	10 15	2 2	3 3
BBAACOR02T	Financial Accounting	10 15	2 2	3 3
BBAHSEC01T	Business Mathematics and Statistics	2 5 10	5 4 2	8 6 20

**B.COM (GENL. - ASP.)**

**Year 1: Semester 1**

Subject Code	Subject	Marks in each Question	No. of Questions to be Answered	No. of Questions to be set
ASPACOR01T	Marketing Management-I	10 15	2 2	3 3
ASPACOR02T	Advertising - I	10 15	2 2	3 3

**B.COM (GENL. - TTM.)**

**Year 1: Semester 1**

Subject Code	Subject	Marks in each Question	No. of Questions to be Answered	No. of Questions to be set
BATACOR01T	History of Tourism I	2 5 10	5 4 2	8 6 20
BATACOR02T	Fundamentals of Tourism Management	2 5 10	5 4 2	8 6 20



**REGULATIONS FOR EXAMINATIONS AND MARKS DISTRIBUTION  
IN ELETRONIC SCIENCE (HONOURS & GENERAL)**

Marks distribution for **Courses, having practical component** will be as follows

For a 6 credit course having practical component the total marks will be distributed as Part A (Theory) 50 marks + Part B (Practical) 25 marks = 75 marks

**Part A**

i) For a 4 credit theory course having 50 marks, 10 marks shall be assessed by the College (internal) and 40 marks by the University (End Semester).

**1. Internal Assessment**

ii) Out of the 10 marks allotted as internal evaluation the breakup of marks will be as follows

- 2 marks (20%) on attendance and

S/N	Range of Attendance Percentage	Marks to be awarded
1	>90%	2
2	>60% but <90%	1
3	<60%	0

- 8 marks (80%) in the form of class tests as decided by the UG Board of Studies.

The Colleges will take 2 (two) internal examination consisting of 25 marks each, and submits the total marks awarded to the WBSU after scaling it down to 8. The marks are to be rounded up to the nearest integer. The Questions of the 25 marks exam must follow the pattern of 2-5, i.e., students must answer 5 question of 2 marks each out of 8 questions, and 3 questions of 5 marks each out of 5 questions. The exams may be conducted within a one hour class, or can be taken separately; however, the maximum time allowable will not be more than 60 minutes for one examination.

To scale the marks to 8, the total obtained marks (Aggregate of two examinations of 25 marks each) shall have to divide by 6.25, and to be rounded up. Please see the examples below for calculation the marks.

A student gets 14 and 17 respectively in two examinations. His total marks will be  $14+17=31$ . It will be scaled to  $31/6.25=4.96$ , and it will be rounded up to 5.00.

A student gets 12 and 20 respectively in two examinations. His total marks will be  $12+20=32$ . It will be scaled to  $32/6.25=5.12$ , and it will be rounded up to 6.00.

**2. End Semester Examination**

Students shall have to appear in end semester examination of 40 marks for each 6 credit paper. The questions must follow the pattern of 2-5, i.e., students must answer 5 question of 2 marks each out of 8 questions, and 6 questions of 5 marks each out of 10 questions.

## Part B: PRACTICAL

i) For a 2 credit practical course having 25 marks, 15 marks shall be assessed by the College (internal) and 10 marks by the University (End Semester)/College (as end semester) evaluation.

### 1. Internal Assessment

Out of the 15 marks allotted as internal evaluation the breakup of marks will be as follows

- 3 marks (20%) on attendance in Practical Classes as Guided by the WBSU

S/N	Range of Attendance Percentage	Marks to be awarded
1	>90%	3
2	>75% but <90%	2
3	<75% but >60%	1
4	<60%	0

- 12 marks (80%) in the form of continuous assessment of the Practical classes /any other method as decided by the UG Board of Studies in Electronics.

S/N	Assessment (for Continuous Assessment Part)	Marks to be awarded
1	1 (One) Practical Examination consisting of <ul style="list-style-type: none"><li>at least one Practical Experiment from among those specified in the syllabus</li><li>Evaluation of Laboratory Note Book (The LNB must be stamped during examination and to be preserved)</li><li>Viva</li></ul>	6 1 1
2	Continuous Assessment by the teacher(s) conducting the Practical Classes	4
	Total	12

### 1. Internal Assessment

The End semester examination shall be in the form of a Viva-voce, Laboratory note book evaluation and hands on experiment as decided by the UG Board of Studies. However, the candidate shall be barred from appearing in the said end semester examination if at least 60% of his/her practical assignments are not duly signed by the respective teacher in the college, and not duly marked to show the conduct of internal practical examination as mentioned above.

S/N	Assessment (for End Semester Assessment Part)	Marks to be awarded
1	1 (One) Practical Examination during the End-Semester Examinations consisting of <ul style="list-style-type: none"><li>at least one Practical Experiment from among those specified in the syllabus</li><li>Evaluation of Laboratory Note Book</li><li>Viva</li></ul>	7 1 2
	Total	10



Question Pattern (Honours & General)  
Department of Electronics

**Theory Paper**      **Full Marks: 40 + 10 = 50**

End Sem Exam – 40

Internal Assessment: 10

**End Sem Exam-40**

Group A: Out of 8 questions 5 has to attempt

Group A :  $5 \times 2 = 10$

Group B: Out of 10 questions 6 has to attempt

Group B :  $6 \times 5 = 30$

Total (Group A + Group B) =  $10 + 30 = 40$

**Internal Assessment: 10**

Attendance – 02

Assessment – 08

**Two exams of 25 marks on each paper (Duration: 1 hour)**

F.M. - 25

2 marks 5 questions = 10

5 marks 3 questions = 15

**Total marks obtained in two exams should be divided by 6.25 and rounded up.**

**Practical Paper**      **Full Marks: 25**

End Sem Exam – 10

Internal Assessment: 15

**End Sem Exam -10**

Experiment: 07

Viva: 02

LNB: 01

**Internal Assessment-15**

Attendance – 03



**Assessment -12**

**One Exam of 08 marks**

Experiment: 06

Viva: 01

LNB: 01

**Assessment of Class Teacher - 04**

Internal Exam Script should be preserved.

**West Bengal State University**  
**Department of Political Science**

**Marks Distribution UG CBCS 2018-21**

**End Semester**

<b>Honours</b>	<b>General</b>
<b>CC/DSE: 6 credits</b>	<b>DSC/GE/DSE: 6 credits</b>
2 marks x 5 questions = 10	10 marks x 3 questions = 30
5 marks x 2 questions = 10	2 marks x 10 questions = 20
10 marks x 3 questions = 30	
<b>Total = 50</b>	<b>Total = 50</b>
<b>SEC: 2 credits</b>	<b>SEC: 2 credits</b>
2 marks x 5 questions = 10	2 marks x 5 questions = 10
5 marks x 2 questions = 10	5 marks x 2 questions = 10
<b>Total = 20</b>	<b>Total = 20</b>
<b>AECC: 2 credits</b>	
2 marks x 5 questions = 10	
5 marks x 2 questions = 10	
<b>Total = 20</b>	

**Word limit (approximate):**

1. Word limit for a question of 1 mark would be 15 words
2. Word limit for a question of 2 marks would be 30 words
3. Word limit for a question of 5 marks would be 100 words
4. Word limit for a question of 10 marks would be 350 words

**West Bengal State University**  
**Department of Political Science**

**Marks Distribution UG CBCS 2018-20**

**Mid Semester: Internal Assessment**

CC/DSE	GE/DSC
5 Marks x 3 Questions = 15	5 Marks x 3 Questions = 15
1 Marks x 5 Questions = 5	1 Marks x 5 Questions = 5
Total – 20	Total – 20



# পশ্চিমবঙ্গ রাষ্ট্রীয় বিশ্ববিদ্যালয়

বারাসাত, কলকাতা- ১২৬

প্রাক-স্নাতক পাঠ-ওয়ান পরীক্ষা ২০১৮

সেমিস্টার- ১

ক। অভ্যন্তরীণ মূল্যায়ন( Internal Assessment), F.M= 20, Time: 1 Hour

বি এ, সাম্মানিক(CC1, CC2, GE1) ও বি এ সাধারণ (DSE1) অভ্যন্তরীণ পরীক্ষার(Internal Assessment) প্রশ্নের পদ্ধতি ও মান

১। দু-এক কথায় উত্তর দাও মোট ৪ টি ( প্রতিটির মান ২ নম্বর)  $8 \times 2 = ৮$

এই অংশে মোট ৮(আট) টি প্রশ্ন থাকবে, প্রতিটি একক(Unit) থেকে ২(দুই) টি করে প্রশ্ন রাখা বাধ্যতামূলক, যার থেকে মোট ৪(চার)টি প্রশ্নের উত্তর দিতে হবে।

২। সংক্ষিপ্ত উত্তর দাও, যে কোনো ২(দুই)টিঃ  $2 \times ৬ = ১২$

(প্রতিটি উত্তরের শব্দ সংখ্যা অনধিক ২০০)

এই অংশে প্রতিটি একক থেকে ১টি করে মোট ৪(চার)টি প্রশ্ন রাখা বাধ্যতামূলক, যার মধ্যে থেকে ২টি প্রশ্নের উত্তর দিতে হবে।

খ। চূড়ান্ত মূল্যায়ন ( End Semester Assessment), F.M= 50, Time: 2 ( Hours)

বি এ, সাম্মানিক(CC1, CC2, GE1) ও বি এ সাধারণ (DSE1) চূড়ান্ত মূল্যায়ন( End Semester Assessment) প্রশ্নের পদ্ধতি ও মান

১। প্রতিটি একক থেকে ১টি করে মোট ৪ টি প্রশ্নের উত্তর দাও ( প্রতিটির মান ১০ নম্বর)  $8 \times 10 = 80$

(১০ নম্বরের প্রশ্নের ক্ষেত্রে বিভাজিত নম্বর(part marking) রাখা যেতে পারে। প্রতিটি উত্তরের শব্দ সংখ্যা অনধিক ৩০০ হবে)

প্রতিটি একক থেকে "অথবা" সহ ২(দুই)টি করে মোট ৮(আট)টি প্রশ্ন রাখা বাধ্যতামূলক। ৮ টি প্রশ্নের মধ্যে থেকে ৪(চার)টি প্রশ্নের উত্তর দিতে হবে।

২। সংক্ষিপ্ত উত্তর দাও, যে কোনো ২(দুই)টিঃ  $2 \times 5 = 10$

(প্রসঙ্গ নির্দেশসহ ব্যাখ্যা/টীকা/ভাষ্য পর্যন্ত বিশ্লেষণ-ধর্মী প্রশ্ন হতে পারে শব্দ সংখ্যা অনধিক ১৫০)

প্রতিটি একক থেকে একটি করে মোট ৪ টি প্রশ্ন রাখতে হবে, যার মধ্যে থেকে ২টি প্রশ্নের উত্তর লেখা বাধ্যতামূলক।

26



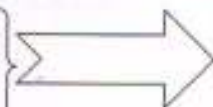
सर्व विद्यमानम्

# WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur, Barasat  
24 Parganas (North), Kolkata – 700 126  
Phone No. 033 – 25420214  
coe.wbsu@gmail.com

## Botany Question Marks breakup( CBCS ) Semester-I

BOTACORE01T  
BOTACORE02T



Theory --- 4 Credits = 50 marks

BOTACORE01P  
BOTACORE02P



Practical --- 2 Credits = 25marks

### Theory-40marks End term

2 marks attendance ( as per University regulations)

8\* marks ( Internal assessment or Mid term; marking process to be transparent and records to be conserved as it may be open to legal scrutiny)

### Practical 3 marks attendance ( as per University regulation)

12\*\* marks continuous assessment ( marking process to be transparent and records to be conserved as it may be open to legal scrutiny)

10 marks End term examination.

Components of each theory paper: { 40 marks-End Sem. Examination.  
+8 marks- \*Int. Assessment by College.  
+ 2 marks – Attendance as per University regulation.

Total : 50 marks

### \*Modalities of Internal assessment -Theory:

( Two 25 marks class tests) 2x25 =50 marks

=> to be proportionately brought down to 8\* marks which has to be sent to the University

### \*\*Modalities of Internal assessment Practical:

#### Continuous Assessment in Practical

##### Daily assessment

Name	Signature	Performance in Lab (8marks.)	Lab Note Book (2 marks)	Total (10marks)
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Performance of each student for the entire semester will be proportionally brought down to 12 marks for the whole semester.

3 marks for attendance ( as per University regulations)





# WEST BENGAL STATE UNIVERSITY

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## Question Pattern

Theory: - 40 marks

(Time : 2hrs.)

Q1. Answer briefly :-5x1=5  
Compulsory five questions.

Q2. Answer any three of the following : 3x5=15  
( Answer at least two questions from each group)  
Group: A

Three questions to be set

Group: B

Three questions to be set

Q3. Answer any four from the following : 4x5=20  
( At least two from each group)

Group: A

Three questions to be set

Group: B

Three questions to be set

### Consider Grouping in CC1

Group A : Microbiology

Group B : Phycology

### Consider Grouping in CC2

Group A : Biomolecules

Group B : Cell Biology

#### **Note:**

**BOTACOR01T-** Phycology 25 marks; + Microbiology 25 marks

**BOTACOR02T-** Biomolecules 25 marks + Cell Biology 25 marks



लक्ष्मं विश्वमानम्

# WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur, Barasat  
24 Parganas (North), Kolkata – 700 126

Phone No. 033 – 25420214

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## BOTA COR01P / BOTA COR02P

### Practical Examination

Full marks-10 each paper Time: For CC 1 & CC 2 -2hrs each

### Each paper

Lab Note Book --- 1 marks

Viva-voce---- 3 marks

Identification --- 2 marks

Work out ---4 marks

(Note : H.E. of respective papers shall determine the breakup of marks for work out and Identification)

Head Examiner will prepare the question paper in consultation with the Examiner's in the Examiner's meeting. The H.E. shall also prepare the instruction for the examiners.

### GE-01 ( Botany)

#### BOTHGE01T

Theory Total marks=40

#### Question pattern :

Q1. Answer briefly 1x12 =12marks

Compulsory 12 questions

Q2. Answer one question from each group. 4x7 =28

- Gr. A 1 or Q2
- Gr. B 1 or Q2
- Gr. C 1 or Q2
- Gr. D 1 or Q2
- Gr. E 1 or Q2
- Gr. F 1 or Q2
- Gr. G 1 or Q2

[Note : Considering Gr.A as Unit -1, Gr. B as Unit-2, Gr. C as Unit-3-----Gr. G as Unit-7]



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## Modalities of Internal assessment

### BOTHGE01T

#### Theory

Theory-8 marks.

One class test of 50 marks covering the entire syllabus.

Later the 50 marks will be brought down proportionally to 8 marks which is to be sent to the university.

#### Practical

### BOTHGE01P

Practical-12 marks ( Continuous assessment )

Name	Signature	Lab Note Book (2)	Performance (8)	
------	-----------	----------------------	--------------------	--

Performance of each student for the entire semester will be proportionally brought down to 12 marks

Attendance for Practical -3 marks as per University regulation

#### First Semester Practical Examination-10marks

Lab. Note Book – 1 marks  
Viva-voce-3 marks  
Identification-6 marks

BOS Meeting

27.08.2018



**ANNEXURE - I**

**Break up Marks for Conducting Internal Assessment (IA) and End Semester Examination**

**Semester 1**

<u>Paper CEMACOR01T</u>		<u>F.M. 50</u>	
	<b>F.M.</b>	<b>IA</b>	<b>End Sem</b>
Unit-1	20	03	16
Unit-2	10	02	08
Unit-3	20	03	16
<hr/>			
		02(attendance)	
	50	10	40

<u>Paper CEMACOR02T</u>		<u>F.M. 50</u>	
	<b>F.M.</b>	<b>IA</b>	<b>End Sem</b>
Unit-1	16	02	13
Unit-2	20	03	16
Unit-3	14	03	11
<hr/>			
		02(attendance)	
	50	10	40

**Semester 2**

<u>Paper CEMACOR03T</u>		<u>F.M. 50</u>	
	<b>F.M.</b>	<b>IA</b>	<b>End Sem</b>
Unit-1	14	02	11
Unit-2	10	02	08
Unit-3	12	02	10
Unit-4	14	02	11
<hr/>			
		02(attendance)	
	50	10	40

Paper CEMACOR04T F.M. 50

	F.M.	IA	End Sem
Unit-1	16	02	13
Unit-2	18	03	14
Unit-3	16	03	13
<hr/>			
		02(attendance)	
	50	10	40

**ANNEXURE - I**

**Break up Marks for Conducting Internal Assessment (IA) and End Semester Examination**

**Semester 1**

Paper CEMGCOR01T F.M. 50

**Section - A** 25

**Marks distribution**

IA (Full Marks - 5)		End Sem (Full Marks - 20)			
Attendance	Internal assessment	Unit - I	Unit - II	Unit - III	Unit - IV
Marks - 1	Marks - 4	Marks - 6	Marks - 4	Marks - 6	Marks - 4

**Section - B** 25

**Marks distribution**

IA (Full Marks - 5)		End Sem (Full Marks - 20)			
Attendance	Internal assessment	Unit - I	Unit - II	Unit - III	Unit - IV
Marks - 1	Marks - 4	Marks - 4	Marks - 5	Marks - 4	Marks - 7

**Semester 2**

Paper CEMGCOR02T F.M. 50

**Section - A** 25

**Marks distribution**

IA (Full Marks - 5)		End Sem (Full Marks - 20)			
Attendance	Internal assessment	Unit - I	Unit - II	Unit - III	Unit - IV
Marks - 1	Marks - 4	Marks - 6	Marks - 4	Marks - 4	Marks - 6



Section – B 25

Marks distribution

IA (Full Marks – 5)		End Sem (Full Marks – 20)	
Attendance	Internal assessment	Unit – I	Unit - II
Marks - 1	Marks - 4	Marks - 11	Marks - 9

**Department of Computer Science**

Question Pattern and Regulation for internal assessment of Computer Science (B.Sc. Honours and General) under Choice Based Credit System (CBCS) of WEST BENGAL STATE UNIVERSITY, BARASAT

Note : All Question Papers are to be set in English only, there will be no version in any other language.

**B.Sc. Honours in Computer Science**

**1. Marks and Question pattern for 6 credit Theoretical Courses :**

**Total Marks 75 (Internal 25 and End Term Examinations 50)\***

Out of the 25 marks allotted as internal evaluation the breakup of marks is as follows:

- a) Attendance : 05 (as per University regulation)
- b) Class test (at least two, written) : 20

**End Term Examinations 50**

Question Paper pattern : 10 marks will be devoted to short answer type questions. 5 (out of 8) questions of 2 marks each to be answered. Remaining 40 is to be divided into 4 (out of 7 choices) of 10 marks each. Each such question may be subdivided into two or more parts.

**Marks and Question pattern for 6 credit (Theoretical + Practical) Courses :**

Theoretical 4 Credits, 50 marks :

Internal Assessment 10 marks with following breakup:

- a) Attendance : 02 (as per University regulation )
- b) Class test (at least two, written) : 08

**End-Term Examination 40 Marks**

Question Paper pattern : 8 marks will be devoted to short answer type questions. 4 (out of 7) questions of 2 marks each to be answered. Remaining 32 is to be divided into 4 (out of 7 choices) of 8 marks each. Each such question may be subdivided into two or more parts.

**Practical 2 Credits, 25 marks**

Internal Assessment : 15 marks with following breakup

- a) Attendance : 03 (as per University regulation )
- b) Internal Assessment (to be conducted by College during the Course) : 12

End-Term Examination :10 with following breakup :

Viva-Voce : 02

Examination : 08

The practical end term examination shall be conducted by the University at external venues.

**B.Sc. General in Computer Science**

**1. Marks and Question pattern for 6 credit Theoretical Courses :**

Total Marks 75 (Internal 25 and End Term Examinations 50)

Out of the 25 marks allotted as internal evaluation the breakup of marks will be as follows:

- a) Attendance : 05 (as per University regulation)
- b) Class test, written: 20

**End Term Examinations 50**

Question Paper pattern : 10 marks will be devoted to short answer type questions. 5 (out of 8) questions of 2 marks each to be answered. Remaining 40 is to be divided into 4 (out of 7 choices) of 10 marks each. Each such question may be subdivided into two or more parts.

**2. Marks and Question pattern for 6 credit (Theoretical + Practical) Courses :**

Theoretical 4 Credits, 50 marks :

Internal Assessment 10 marks with following breakup:

- a) Attendance : 02 (as per University regulation)
- b) Class test, written : 08

**End-Term Examination 40 Marks**

Question Paper pattern : 8 marks will be devoted to short answer type questions. 4 (out of 7) questions of 2 marks each to be answered. Remaining 32 is to be divided into 4 (out of 7 choices) of 8 marks each. Each such question may be subdivided into two or more parts.

**Practical 2 Credits, 25 marks**

Internal Assessment : 15 marks with following breakup

- a) Attendance : 03 (as per University regulation )
- b) Examination (to be conducted by College during the Course) : 12

End-Term Examination : 10 with following breakup :

Viva-Voce : 07

Lab Note Book : 03

Viva-voce will be conducted by external examiner appointed by University.

**SEC for both Honours and General Courses**

All assessment and evaluation is to be done by College.

**Marks Distribution**

Total Marks : 25

Breakup as follows:

- a) Attendance : 05 (as per University regulation)
- b) Assessment : 20 Experiment/Viva/LNB



PROPOSED ASSIGNMENT (LAB WORK) ON

**Programming Fundamentals using C/C++ UNDER CBCS**

SUBJECT – CMSA

PAPER – CMSACOR01P

1. Create a class Box and initialize its object using operator overloading. Calculate area, volume of the box using suitable member function.
2. Create a class person with data members as name, address and phone number. Initialize them dynamically using appropriate constructors. Use member function get\_name, get\_address, and get\_phone\_no and display to show the content. Also use destructor to clean up the memory.
3. Create a class matrix with dynamic resource allocation. Use suitable member function to perform addition, subtraction and multiplication operation of matrix.
4. Create a class Integer which contains a data member integer value and use suitable constructor, destructor and member functions and overload operators =, ++, -- operator.
5. Create a class date with data members as day month and year. Initialize them using constructor. Overload ++ operator to increment the date by one day (Condition of end of month, end of year and leap year should be preserved).
6. Create a class Complex which stores a complex number (a pair of real numbers) as data members and use suitable constructor, destructor and member functions and overload operators: + (using operator/friend), - (using operator/friend), +=, \*=.
7. Write a program to overload +, <, and > operators to concatenate and compare two strings respectively.
8. Create a class person having data members as name, gender, age and member functions as read and display. Inherit two classes named student and exam from person and implement them with entity like roll no, branch marks etc. Display each student's details.
9. Create a class publication and implement with the member functions that accept title and price of the book as input arguments. Create other class sales which keep track of sales details. Create another class book that inherited from the above two classes and display number of pages, name etc.
10. Create a class vehicle with the member functions that accept name and wheels count as input arguments and display it. Create other class light motor that inherit vehicle the member functions that accept speed limit, capacity as input. Create two more classes gear and non gear that inherit light motor with gear count as input and display it.

11. Create a class student with the member functions that accept name, roll number and branch as input and display it. . Create two more inherited classes' internal exam and external exam that accepts marks and display it.
  12. Create a class Number which contains a data member decimal integer value and contains a member function display which is a virtual function. Derive three classes To-Binary, To-Octal and To-Hexadecimal to display value in binary, octal and hexadecimal by overriding method display.
  13. Create a class object with show as virtual function. Inherit two other classes sphere and cube from object. Calculate volume of a sphere and cube using necessary parameters and member function.
  14. Create a class matrix that can add and subtract two matrices by overloading operator '+' and '-' respectively. There must be provision to handle the situation if the matrix size is out of range.
  15. Design a class Time containing two members { hours and minutes and the following member functions:
    - a) To read time
    - b) To display time
    - c) To get the sum of two times passed as argument
  16. Create a class consisting of 3 pairs of (x,y) coordinates & using this design a class Triangle.
- Use appropriate constructors & destructor. Write a function to check whether a triangle is equilateral/ isosceles/ scalene.
17. Design a class Polar which describes a point in the plane using polar coordinates radius and angle. Use overloaded + operator to add two objects of Polar.
  18. Design a class Fraction which contains data members for numerator and denominator. Include default constructor with default arguments taken as numerator 0 and denominator Overload the operators + and -.
  19. Create a function called swap ( ) that interchanges the values of two arguments sent to it. Make the function a template function so that it can be used with any numerical data type.
  20. Create a class Distance to store the distance in feet and inches. Overload + and - operator to add and subtract two distances.
  21. Define a class to represent a vector. Include member functions to perform the following
    - a) Create a vector
    - b) Modify the value of a given element
    - c) Multiply by a scalar value
    - d) Display the vector
    - e) Add two vectors
  22. Implement in C++ to create an abstract base class Shape with two members 'Base' and 'Height', a member function for initialization & a pure virtual function to compute area().
  23. Derive specific class Triangle which override area(). Use this class to display the area of a triangle.



24. Design a base class containing the members Name, Roll Number, Phone Number and Address. Using this class derive a class that contains First semester marks, Second semester marks. Write a Program that will calculate total marks of a student obtained in the two semesters.
25. Create a class consisting of x and y coordinates and using this design a class LineSegment. Use appropriate constructors and destructor. Write a function to check whether two lines are perpendicular or parallel.
26. Create a class MAT to work with a matrix of order  $m \times n$ . Define suitable overloaded operator to add two matrices.
27. Create a class List that will initialize an integer array by taking values from the user. Write a CPP program that will display the array elements in the order the values are given. Also display the elements in reverse order. Use constructors and member functions to achieve this.
28. Design a class BitOp containing two integers. The class should contain methods BitAnd, BitOr, BitXor to do bitwise AND, OR and XOR operations. Write suitable constructors.
29. Write a C++ program to Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes.
30. Write a C++ program to implement the use of a vector class template for performing the scalar product of int type vectors as well as float type vectors.
31. Write a C++ program to create a class Triangle. Include overloaded functions for calculating area.
32. Write a C++ program to find the difference of two date using class.



PROPOSED ASSIGNMENT (LAB WORK) ON  
COMPUTER SYSTEM ARCHITECTURE UNDER CBCS

SUBJECT – CMSA

PAPER – CMSACOR02P

- PROBLEM-1: Write an assembly language program to add  $n$  ( $n \geq 1$ ) Integers (positive, negative and zero). The number of elements is stored at the location 150, numbers are stored after the location 150 and the sum is stored at the end.
- PROBLEM-2: Write an assembly language program to find number of 1's in a word (16-bit). Word is stored at the memory location 030 and the number of 1's is stored after the memory location 030.
- PROBLEM-3: Write an assembly language program to find Greatest Common Divisor (GCD) of Two Positive integers. Numbers are stored memory locations 120 and 121 and GCD is stored after the memory location 121.
- PROBLEM-4: Write an assembly language program to perform XOR operation on two binary numbers using OR subroutine.
- PROBLEM-5: Write an assembly language program to transfer a block of data from one place to another place (Memory). The number of elements is stored at the location 120, Source data are stored after the location 120 and Destination data are started at the location 140.
- PROBLEM-6: Write an assembly language program to complement each word in a block of data (Memory). The number of elements is stored at the location 150, Data are stored after the location 150.
- PROBLEM-7: Write an assembly language program to multiply two numbers using shift and add. Multiplicand and Multiplier are stored at memory locations 120 & 121 and Product is stored at memory location 122.
- PROBLEM-8: Write an assembly language program to multiply two positive integer numbers using Repeated Addition. Multiplicand and Multiplier are stored at memory locations 120 & 121 and Product is stored at memory location 122.
- PROBLEM-9: Write an assembly language program to exchange consecutive bits of a memory word using OR subroutine. Memory word is stored at the location 120 and the result is stored at the location 125.

- PROBLEM-10: Write an assembly language program to find frequency of a word in an array of  $n$  ( $n \geq 1$ ) memory words. The number of elements is stored at the location 120, Source data are stored after the location 120 and Destination data are started at the location 140.
- PROBLEM-11: Write an assembly language program to find maximum of  $n$  ( $n \geq 1$ ) elements. The number of elements is stored at the location 150, elements are stored after the location 150 and maximum element is stored after the last element.
- PROBLEM-12: Write an assembly language program to clear each word in a block of data (Memory). The number of elements is stored at the location 150, elements are stored after the location 150.
- PROBLEM-13: Write an assembly language program to accept input two characters, pack such characters in a word and store it in memory location 030.
- PROBLEM-14: Write an assembly language program to unpack two characters from a memory word stored at the location 030 and store them in consecutive memory locations 033 and 034.
- PROBLEM-15: Write an assembly language program to generate first  $n$  ( $n \geq 1$ ) Fibonacci Numbers and store them in consecutive memory locations. Number  $n$  is stored at the location 30 and Fibonacci numbers are stored from the location 150.
- PROBLEM-16: Write an assembly language program to find number of Positive, Negative and Zero numbers from a set of  $n$  numbers. Number  $n$  is stored at the location 150, numbers are stored from the location 150 and number of Positive, Negative and Zero numbers are stored at the locations 042, 043 and 044.
- PROBLEM-17: Write an assembly language program to verify whether the lower byte and the upper byte of a memory word is Equal Or Not. Memory word is at the location 041 and the status which is 0(unequal) or 1(equal) is stored at the location 044.
- PROBLEM-18: Write an assembly language program to add two 32-bit words (double precision addition) with carry. First number is stored at locations 040, 041 and Second number is stored at locations 042, 043 and addition & carry are stored next consecutive memory locations.
- PROBLEM-19: Write an assembly language program to accept a string of characters end with '#' from Input and display such characters in Output without '#'.
- PROBLEM-20: Write an assembly language program to exchange lower byte and upper byte of a memory word. Memory word is at the location 050 and after exchanging bytes, word is stored at the location 054.



Extracts of Minutes of UG BOS Meeting dated 08.08.2018, Department of Economics, WBSU

1. Marks Division for 6-Credit Economics Honours papers(Both Core and DSE) : Internal Assessment

Internal Assessment for Each paper 25 marks  
(True for each of all 23 papers (except project-work))

Attendance 5 Marks  
(Follow University (WBSU)Central Guidelines)

After 8 weeks

Class Test (Two questions of 5 marks to be answered, out of 4 choices) 10 marks

After 16 weeks:

Written assignment/ Seminar presentation 10 marks

2. Marks Division for 6-Credit Economics General papers(Both GE and DSC) : Internal Assessment

Internal assessment for each paper 25 Marks

Attendance 5 Marks  
(Follow University (WBSU)Central Guidelines)

After 8 weeks

Class Test ( five questions of 2 marks to be answered, out of 8 choices) 10 marks

After 16 weeks:

Class Test (Two questions of 5 marks to be answered, out of 4 choices) 10 marks

3. Marks Division for 6-Credit papers (End Semester University Examination)

**Final Assessment for each paper : 50Marks**

<b>Honours:</b>	10 marks x 2	(out of 4 questions)	= 20 marks
	5 marks x 4	(out of 6 questions)	= 20 marks
	2 marks x 5	(out of 8 questions)	= 10 marks
	Total		= 50 marks

<b>General:</b>	10 marks x 3	(out of 6 questions)	= 30 marks
	4 marks x 2	(out of 4 questions)	= 8 marks
	2 marks x 6	(out of 12 questions)	= 12 marks
	Total		= 50 marks



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Question Pattern for CBCS Mode (Education)

For CBCS – Core-I & Core II (Honours)

As per decision of U.G.B.O.S. Meeting in Education held on 23/07/2018

For Honours (Sem –I)

Answer any **TWO (2)** out of Three (3) questions  $15 \times 2 = 30$

Answer any **THREE (3)** out of Four (4) questions  $5 \times 3 = 15$

Answer **FIVE (5)** out of Five (5) questions  $1 \times 5 = 5$   

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50

For General (Sem – I)

Answer any **TWO (2)** out of Three (3) questions  $15 \times 2 = 30$

Answer any **FOUR (4)** out of Five (5) questions  $5 \times 4 = 20$   

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50

Internal Assessment = 20 (for Honours & General)

Answer any **ONE (1)** out of Two (2) questions  $10 \times 1 = 10$

Answer any **TWO (2)** out of Three (3) questions  $5 \times 2 = 10$   

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## Recommendations of the UG-BOS of English on the modalities of implementing the undergraduate CBCS curriculum in Semester I

Dated: 29.08.2018

### 1. Question patterns for Honours Courses & a few model questions.

Core Course I: Indian Classical Literature (6 Credits)

The following portions are earmarked for detailed study—

- a. *AbhijnanaShakuntalam*—Acts I, IV & VI
- b. *Mrchhakatika*—Acts I, V, IX & X
- c. *Kadambari*—Prologue & Chapter I (Parrot Speaks)
- d. *Mahabharata*—“The Dicing” (chapters 43-65)

Internal Assessment (20): Group A—10marks on project/groupdiscussion/seminar presentation; 10 marks on written test.

NB. No MCQ or one word answer should be set.

End Semester:

Group B. 2 long questions with internal choice from each of the two texts of 10 marks each.

1 short note/ question out of 2 of 5 marks.

Group C. Group B. 2 long questions with internal choice from each of the two texts of 10 marks each.

1 short note/question out of 2 of 5 marks.

Model Questions

Long questions:

- How does Kalidasa in *AbhijnanaSakuntalam* depart from the narrative of Sakuntala as it appears in *Mahabharata*?
- Discuss *Kadambari* as a ‘gadya kavya’.
- Write a critical essay on the questions that Draupadi raises in the Sabhaparva.
- Assess *Mrchhakatika* as a *prakarana* text.

Short notes/questions:

- Significance of the storm scene in *Mrchhakatika*

- Divine intervention in the Sabhaparva
- Character of Karna
- Role of the parrot in *Kadambari*

#### Core Course II: European Classical Literature (6 Credits)

Internal Assessment (20): Group A—10marks on project/group discussion/seminar presentation; 10 marks on written test.

NB. No MCQ or 1 word answer.

End Semester:

Group B. 2 long questions with internal choice from each of the two texts of 10 marks each.

1 short note/question out of 2 of 5 marks.

Group C. 2 long questions with internal choice from each of the two texts of 10 marks each.

1 short note/question out of 2 of 5 marks.

#### Model Questions

Long questions:

- Do you think that Oedipus is a victim of fate? Discuss with close reference to the text.
- Assess *Iliad* as a fatalistic epic. Discuss with close reference to Book I & II.
- Write a critical note on the character of Euclio in *Pot of Gold*.
- Elaborate on the theme of transformation in the tale of Bacchus in *Metamorphoses*.

Short notes/question:

- Issue of divine retribution as it appears in Book III of *Metamorphoses*
- Staphyla in *Pot of Gold*
- The quarrel between Achilles and Agamemnon in *Iliad*
- Anagnorisis in "Oedipus the King"
- 

#### 2. Generic Elective(ENGHGEC01T)/DSC (ENGGCOR01T)

Internal Assessment: Unit 1- 10 marks on project/group discussion; 10 marks on written test.

NB. No MCQ or 1 word answer.

End Semester:

3 long questions of 10 marks each out of 8 from unit 2 to unit 5.

4 short notes/questions out of 6 of 5 marks each



### 3. Question patterns for General Courses

#### English for Arts & Commerce (ENGLCOR01T)

**Internal Assessment (20):** Home assignment on the texts prescribed. (Left to the discretion of the department). Typed answers not to be allowed.

#### End Semester:

- a. 3 questions out of 5 of 5 marks each from both groups (3x5=15).
- b. Questions for 1 word answers from both groups. (1x15=15)
- c. 2 extracts from prescribed texts for grammar & vocabulary exercises (10x2=20)

**NB.** Question pattern changed for this course.

4. **Evaluation of ENGLCOR01T**—UG-BOS suggests that evaluation of End Semester scripts are to be undertaken by the colleges. Question paper will be prepared by the university and detailed answer key will be provided. Colleges are advised to include all teachers (substantive, CWTT, PTT, and Guest/Management appointed teachers) of the English department as examiners. The University will finally decide on the modality of evaluation and notify.

**1. Pattern of Question Paper :**

The Pattern of Questions and Distribution of Marks in FMSGC01T(6) and FMSGEC01T(6) will be as follows :

Both the End Semester Question Papers of the Courses FMSGC01T(6) and FMSGEC01T(6) will be same.  
Total Marks=50, Time=2Hrs.

1. Objective Type Questions (5)  $2 \times 5 = 10$
2. Short Type Questions (2)  $5 \times 2 = 10$
3. Long Type Questions (3)  $10 \times 3 = 30$

The Candidates have to answer

1. Five Objective Type Questions consisting of 2 marks out of the choice of Eight Questions.
2. Two Short Notes consisting of 5 marks out of the choice of Four Questions.
3. Three Essay Type Questions consisting of 10 marks out of the choice of Six Questions.

**2. Form of Internal Assessment :**

Any Project based on Module 4-6 or Module 9-11 of Visual Language and Institutionalization of the Cinematic Language FMSGC01T(6) and

Any Project based on Module 4-6 or Module 9-11 of Visual Language and Institutionalization of the Cinematic Language FMSGEC01T(6)

**3. Time of Internal Assessment/Mid-Semester Examination :**

The Internal Assessment will be held from Fourth Week of September to First Week of October, 2018

Both the End Semester Question Papers of the Courses FMSGC01T(6) and FMSGEC01T(6) will be same.

Total Marks=50, Time=2Hrs:

1. Objective Type Questions (5)  $2 \times 5 = 10$
2. Short Type Questions (2)  $5 \times 2 = 10$
3. Long Type Questions (3)  $10 \times 3 = 30$

The Candidates have to answer

1. Five Objective Type Questions consisting of 2 marks out of the choice of Eight Questions.
2. Two Short Notes consisting of 5 marks out of the choice of Four Questions.
3. Three Essay Type Questions consisting of 10 marks out of the choice of Six Questions.

This is for your Record and Preparation of the Guideline for forthcoming End-Semester-1 Examination (C.B.C.S.) in Film Studies. Kindly acknowledge the receipt of the Pattern of Questions and oblige.

Thanking you,

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## **Food & Nutrition (Honours & Program Course)**

### **Question Pattern in Theory Papers, Procedure of Continuous Assessment in both Theory and Practical Papers, and Practical Examination Procedure by External Assessment**

Meeting of Food & Nutrition UGBOS, WBSU on 28-Aug-2018 resolves the followings:

**1. Question Pattern in Theory (Marks 40) :** There shall be three types of questions in Theory papers.

- i) 10 questions x 1 mark each (10 questions to be set)
- ii) 4 questions x 5 mark each (4 questions to be set)
- iii) 1 question x 10 mark (2 questions to be set)

For 5 mark and/or 10 mark questions, subdivisions may be made if required.

**N.B.** This will be applicable for both Honours and Program course.

**2. Continuous Assessment (CA) /Evaluation Procedure for Theory (Marks 08) & Practical (Marks 12) :**

**N.B.** Continuous assessment will be Internal Assessment/Evaluation (CA) for each paper and this has to be carried out by at least two teachers separately (for both Theory and Practical papers) and the average assessment will be considered and forwarded to the university This will be applicable to both Theory and Practical papers in both Honours and Program course.

**a. CA for Theory papers (Marks 08)** can be made by Assignment and/or Presentation and/or 1 mark questions as per decision of the respective teachers concerned.  
For regular attendance in theory classes, 2 marks is allotted.

**b. CA for Practical papers (Marks 12),** teachers shall conduct Practical examination (at least by two) and evaluate the performance of the students accordingly.  
For regular attendance in the practical classes 3 marks is to be allotted.

A record is to be kept by teachers for all these evaluations.

**3. Conducting of Practical Examination by External Assessment (EA)/ Evaluation (Marks 10) :** Evaluation or assessment will be done in the following manner -

- i) Laboratory Note Book : Marks 2
- ii) Viva-voce : Marks 3
- iii) Conduct of Experiment : Marks 5

Duration of the evaluation by external examiner will be 2 Hours.

The names of the internal examiners (at least two) shall be nominated by the Principal of the College. The names of the External Examiners shall be nominated by the UGBOS.

The Practical Examination for **Program course** shall be held in home-centre with the concerned teachers (at least two) of the college itself; however, no External Examiner will be required.



A

Decisions of the UGBOS in Geography held on 31.07.2018, regarding UG Examination in CBCS System

1. For 75 marks or 6 credit theory course:

FM	End Semester to be taken by University		Internal assessment	
	75		25	
	Courses without practical		Attendance	Continuous evaluation
			5	20
	10 marks $\times$ 02 = 20 (2 out of 3) [may be suitably split into 2 parts keeping the spirit of the topic in mind] 05 marks $\times$ 04 = 20 (4 out of 7) 02 marks $\times$ 05 = 10 (5 out of 9)		Details of marking of attendance given in regulation	a) At least 3 class tests of 20 mark each to be taken and then averaged. b) Answer scripts to be preserved by college for future reference. These should be preserved until publication and review of result is complete.

2. For 50 marks or 4 credit theory course:

FM	End Semester to be taken by University		Internal assessment	
	50		10	
	Courses without practical		Attendance	Continuous evaluation
			2	8
	10 marks $\times$ 01 = 10 (1 out of 2) [may be suitably split into 2 parts keeping the spirit of the topic in mind] 05 marks $\times$ 04 = 20 (4 out of 7) 02 marks $\times$ 05 = 10 (5 out of 9)		Details of marking of attendance given in regulation	a) At least 3 class tests of 8 mark each to be taken and then averaged. b) Answer scripts to be preserved by college for future reference. These should be preserved until publication and review of result is complete.

3. For 25 marks or 2 credit practical course:

FM	End Semester to be taken by University		Internal assessment	
	25		15	
	Courses with practical		Attendance	Continuous evaluation
			3	12
	In the form of a Grand Viva-voce and hands on exercise. The candidate shall be barred from appearing in the examination if in the Lab Note Book at least 60% of practical assignments are not duly signed by the respective teacher in the college. The break-up of marks will be as follows: Grand viva = 6 and Hands on exercise = 4. For practical courses with instrument handling or computer related component (GEOACOR04P and GEOACOR12P) the marking system will be as follows: Grand viva = 5 Hands on exercise = 5		Details of marking of attendance given in regulation	c) At least 3 class tests/ hands-on exercise of 12 mark each to be taken and then averaged. d) Answer scripts to be preserved by college for future reference, until publication and review of result is complete. e) Practical Note Book to be done in class and signed by concerned teacher on that day.

4. For practical courses GEOACOR01P and GEOACOR02P there will be 10 practical centres and two examiners will be allotted to each centre.

## West Bengal State University

Division of Marks for Semester-I under CBCS Examination, 2018

As per the unanimous resolution adopted in the meeting of UGBOS(HINDI) held on Dated 16.08.2018  
vide Agendum 03

Subject: HINDI

HONOURS: Core Course 1 : HINACOR01T (Credit-06) Term End Examination, Full Marks: 50

Core Course :2: HINACOR02T (Credit-06) Term End Examination, Full Marks: 50

GE & GCOR : HINHGE01T/ HINGCOR01T (Credit-06) Term End Examination, Full Marks:50

02 Long Type Questions 15 marks each having alternative questions each  $2 \times 15 = 30$

03 Short Notes Type/Explanations 05 marks each out of five  $3 \times 5 = 15$

05 Objective Type Questions 01 mark each having no choice  $5 \times 1 = 05$

Internal Assessment Full Marks : 20 shall be awarded by the concerned Colleges. The Pattern of questions shall be as below for the above mentioned Courses:

01 Long Type Question having alternative of 15 marks

01 Short Note Type/ Explanation having alternative of 05 marks

  
06/09/18  
(Professor Arun Hota)

Chairperson, UGBOS (HINDI)

Ag

**WEST BENGAL STATE UNIVERSITY EXAMINATIONS, 2018-21**

**UG, DEPARTMENT OF HISTORY**

**1. END-SEMESTER EXAMINATIONS**

**(Written Examinations)**

<b><u>HONOURS</u></b>	<b><u>GENERAL</u></b>
<b>CC, DSE: 6 Credits</b>	<b>DSC/GE, DSE: 6 Credits</b>
12 marks x 2 = 24 marks	10 marks x 2 = 20 marks
8 marks x 2 = 16 marks	5 marks x 2 = 10 marks
5 marks x 2 = 10 marks	2 marks x 10 = 20 marks
<b>TOTAL = 50 marks</b>	<b>TOTAL = 50 marks</b>
<b>SEC: 2 Credits</b>	<b>SEC: 2 Credits</b>
2 marks x 5 = 10 marks	2 marks x 5 = 10 marks
5 marks x 2 = 10 marks	5 marks x 2 = 10 marks
<b>TOTAL = 20 marks</b>	<b>TOTAL = 20 marks</b>

**2. INTERNAL ASSESSMENT**

**(Written Examinations)**

<b><u>HONOURS</u></b>	<b><u>GENERAL</u></b>
<b>CC, DSE: 6 Credits</b>	<b>DSC/GE, DSE: 6 Credits</b>
12 marks x 1 = 12 marks	10 marks x 1 = 10 marks
8 marks x 1 = 8 marks	5 marks x 2 = 10 marks
<b>TOTAL = 20 marks</b>	<b>TOTAL = 20 marks</b>



3. SAMPLE QUESTIONS FOR SEMESTER 1, HONOURS AND GENERAL

CORE COURSE 1 (HONOURS)

Course Code: HISACOR01T

*Paper 1: History of India – I (From Earliest Times to c.300 BCE)*

**12 Marks Questions**

Highlight the salient features of the Paleolithic and Mesolithic cultures of India.

(Answers are to be written within 600 words approximately)

**8 Marks Questions**

Comment on origin of the term "India". Point out elements of geographical diversity and homogeneity of the Indian subcontinent.

(Answers are to be written within 400 words approximately)

**5 Marks Questions**

Describe the principal features of Sabha and Samiti.

(Answers are to be written within 250 words approximately)

CORE COURSE 2 (HONOURS)

Course Code: HISACOR02T

*Paper II - Social Formations and the Cultural Patterns of the Ancient World*

**12 Marks Questions**

What were the different stages in evolution of humans?

(Answers are to be written within 600 words approximately)

**8 Marks Questions**

What was the importance of the Australopithecus in human evolution?

(Answers are to be written within 400 words approximately)

**5 Marks Questions**

Who are the Primates?

(Answers are to be written within 250 words approximately)

**GENERIC ELECTIVE /DISCIPLINE SPECIFIC COURSE (GENERAL)**

**Course Code: HISGCOR01T**

*Paper I: History of India from Earliest Times up to 300 CE*

**10 Marks Questions**

Assess the importance of inscription and coins as source materials for writing the history of Ancient India.

(Answers are to be written within 500 words approximately)

**5 Marks Questions**

Write a short note on Microlith tools.

(Answers are to be written within 250 words approximately)

**2 Marks Questions**

Mention two non-Indian civilizations contemporary of the Indus Valley Civilization.

(Answers are to be written within 30 words approximately)

# Department of Mathematics

Question Pattern and Regulation for internal assessment of Mathematics (B.Sc. Honours and General) under Choice Based Credit System (CBCS) of WEST BENGAL STATE UNIVERSITY, BARASAT

**Note :** All Question Papers to be set in English only, there will be no version in any other language.

## B.Sc. (Honours and General) in Mathematics

### 1. Marks and Question pattern for 6 credit Theoretical Courses :

**Total Marks : 75 (Internal assessment-25 and End Term Examination- 50)**

Out of the 25 marks allotted as internal evaluation the breakup of marks will be as follows :

- a) Attendance : 05 (as per University regulation )
- b) Class test (at least two) : 10
- c) Assignment : 10

Mode of assignment : A set of problems may be handed out to the students at the beginning of the semester, to be worked out and submitted to teacher by a fixed date or the class may be divided into groups and set to work on separate problems related to the course.

### End Term Examination-50

#### Question Paper pattern :

10 marks will be devoted to short answer type questions, 5 (out of 8) questions of 2 marks each to be answered.

Remaining 40 is divided into 5 questions (out of 8 choices) of 8 marks each, each such question may be subdivided into two or more parts.

### 2. Marks and Question pattern for 6 credit (Theoretical + Practical) Courses :

**Theoretical 4 Credits, 50 marks :**

Internal Assessment 10 marks with following breakup :

- a) Attendance : 02 (as per University regulation )
- b) Class test : 04
- c) Assignment : 04

Mode of assignment : A set of problems may be handed out to the students at the beginning of the semester, to be worked out and submitted to teacher by a fixed date or the class may be divided into groups and set to work on separate problems related to the course.



**End-Term Examination 40 Marks**

**Question Paper pattern :**

8 marks will be devoted to short answer type questions. 4 (out of 7) questions of 2 marks each to be answered.

Remaining 32 is divided into 4 questions (out of 7 choices) of 8 marks each, each such question may be subdivided into two or more parts.

**Practical 2 Credits, 25 marks**

Internal Assessment : 15 marks with following breakup :

- a) Attendance : 03 (as per University regulation )
- b) Examination (to be conducted by College after completion of the Course) : 12

**End-Term Examination 10 with following breakup :**

Viva-Voce : 07

Lab Note Book : 03

Viva-voce will be conducted by external examiner appointed by University.

**3. SEC for both Honours and General Courses**

**All assessment and evaluations to be done by College.**

Marks Distribution :

Total Marks : 25

Breakup as follows:

- a) Attendance : 05 (as per University regulation )
- b) End-Term Examination : 20

Question Pattern : 3 short answer type questions of 2 marks each, out of 5 options and 2 questions of 7 marks each, out of 4 options.

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## WEST BENGAL STATE UNIVERSITY

### DEPARTMENT OF PHILOSOPHY

Finalised by the UG BOS, Philosophy, WBSU, in the BOS Meeting held on 18.07.2018 following the guidelines of UGC, the guidelines suggested by the University and the observations and suggestions of the teachers from UG Colleges affiliated to WBSU. This will effect from the academic session 2018-19.

#### 1. Instructions for Paper setters in connection with the End-Term Examinations:

- a. In case of End Term Examination, paper setters are to be instructed not to set questions of more than 5 marks on topics which are mentioned in the syllabi '**to be discussed in brief**'.
- b. No question would be set on topics on which only an overview would be required as per the syllabi.

#### b. Question pattern for End-Term Examinations:

i. Marks distribution in Honours level// Question pattern for End-Term Examination:

For Core Courses [PHIACOR01T-PHIACOR 14T]	DSE	GE
15x2=30 [Students are required to answer two (02) broad answer-type questions out of four (04), carrying 15 marks each].	15x2 =30 [Students are required to answer two (02) broad answer-type questions out of four (04), carrying 15 marks each].	2x10=20 [Students are required to answer 10[two] questions out of twenty (20) each carrying 2[two] marks.]
5x2=10 [Students are required to answer 02[two] questions out of four (04), each carrying 5[five] marks.]	5x4=20 [Students are required to answer four (04) questions out of eight (08), carrying 5 marks each].	5x2=10 [Students are required to answer 02[two] questions out of four (04) each carrying 5[five] marks.]
2x5=10 ★ [Students are required to answer 05[five] questions out of ten (10), each carrying 2[two] marks.]		10x2=20 [Students are required to answer 02[two] questions out of four (04) each carrying 10[ten] marks.]

ii. Marks distribution / Question pattern for End term Examination in Undergraduate Programme:

Core	DSE	GE
2x10=20 [Students are required to answer 10[ten] questions out of twenty (20) each carrying 2[two] marks.]	2x10=20 [Students are required to answer 10[ten] questions out of twenty (20) each carrying 2[two] marks.]	2x10=20 [Students are required to answer 10[ten] questions out of twenty (20) each carrying 2[two] marks.]
5x2=10 [Students are required to answer 02[two] questions out of four (04) each carrying 5[five] marks.]	5x2=10 [Students are required to answer 02[two] questions out of four (04) each carrying 5[five] marks.]	5x2=10 [Students are required to answer 02[two] questions out of four (04) each carrying 5[five] marks.]
10x2=20 [Students are required to answer 02[two] questions out of four (04) each carrying 10[ten] marks.]	10x2=20 [Students are required to answer 02[two] questions out of four (04) each carrying 10[ten] marks.]	10x2=20 [Students are required to answer 02[two] questions out of four (04) each carrying 10[ten] marks.]

iii. Marks distribution in SEC [Shared Courses]:

Candidates have to answer 04 questions out of 8/10 each carrying 5 marks.

Instruction for Paper-Setters for setting Question paper on course PHIACOR02 [Western Logic-I]:

1. One set of questions from 'Venn Diagram' & 'Truth Table Method'.
2. One set of questions from 'Truth Tree Method'.
3. One set of questions from 'Construction of Formal Proof of Validity by 19 [Nineteen] Rules; &
4. One set of questions from 'C.P' & I.P.' & Invalidity by Shorter Truth Table Method'.



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West Bengal State University

Question Pattern of UG Physics (CBCS)

- v)
1. Question pattern for the *Theory* papers of the end semester examinations will be as follows
    - a) FM 40: For the *theoretical (T) component of each paper of credit 4(T)+2(P)*  
Question No. 1. Short answer type, 2 marks each: Student has to answer 10 questions out of a total of 14 questions (marks  $2 \times 10 = 20$ ). This question is compulsory.  
Question No.s 2-5: Each of marks 10 having more than one part which may not be related the each other. A student has to answer two out of these four questions (marks  $10 \times 2 = 20$ ).
    - b) FM 50: For all papers of credit 5 (Theory) +1 (Tutorial)  
Question No. 1. Short answer type, 2 marks each: Student has to answer 15 questions out of a total of 20 questions (marks  $2 \times 15 = 30$ ). This question is compulsory.  
Question No.s 2-5: Each of marks 10 having more than one part which may not be related the each other. A student has to answer two out of these four questions (marks  $10 \times 2 = 20$ ).

In both the above cases the questions should be distributed evenly over the whole syllabus.



Suggested Question Pattern for UG End Semester Examination, Sociology is as follows:

Full Marks: 50 for Each Core Course (Hons.)

1. Long Questions: Each question carries 10 marks (Answer should not exceed 700 words). Students are to answer 2 questions out of 4 alternatives. (2 X 10 = 20)
2. Medium or Semi Long Questions: Each question carries 5 marks (Answer should not exceed 300 words). Students are to answer 4 questions out of 6 alternatives. (4 X 5 = 20)
3. Short Questions: Each question carries 2 marks (Answer should not exceed 100 words). Students are to answer 5 questions out of 8 alternatives. (5 X 2 = 10)

Internal

Core Course 1 – MCQ (20 X 1) Class room Examination

Core Course 2 – Assignment (20 X 1) (Students are to write an essay of 1500 words out of 2)

Core Course 3 - Assignment (20 X 1) (Students are to write an essay of 1500 words out of 2)

Core Course 4 - MCQ (20 X 1) Class room Examination

GE/DSC - MCQ (20 X 1) Class room Examination

Honours And General

- MCQ tests are to be taken before the Puja Vacation
- Assignment marks are to be submitted to the University by 30<sup>th</sup> November, 2018.

## UG in Zoology

Instructions for the evaluations of the courses offered to students by the Zoology departments for the BSc honours degree in Zoology and BSc (general) degree with Zoology under the CBCS system for undergraduates in the West Bengal State University

**1. Each Course with 6 (six credit) has two components- Theory (4 credits) and Lab / Practicals (2 credits).**

In 1<sup>st</sup> Semester, these courses are-

For the BSc with Zoology honours students:

1. **Non-Chordates I Theory (ZOOACOR01T)**  
**Non-Chordates I Lab ( ZOOACOR01P)**
2. **Ecology Theory (ZOOACOR02T)**  
**Ecology Lab ( ZOOACOR02P)**

For the BSc (general) with Zoology students and for the students with honours in subjects other than Zoology (i.e. equivalent to the previous pass/general course subjects):

3. **Animal Diversity Theory (ZOOGCOR01T for general degree students / ZOOHGEC01T for other honours students)**  
**Animal Diversity Lab (ZOOGCOR01P for general degree students / ZOOHGEC01P for other honours students)**

## **2. Evaluations**

### **2.1 THEORY**

The theory evaluations/examinations for all **core papers** with 4 credits will be of total 50 marks, of which 10 will be by internal assessment and 40 will be by an end term test.

Of the 10 marks internal assessment, 8 (Eight) will be assessed by a **mid-term test** and remaining 2 will come from the **attendance**.

**Midterm:** Total marks= 8; [2 marks x 4 Qs (6 options) or 1 mark x 8 Questions (10 options)].

Midterm test will be conducted by the respective course teacher/s including setting the questions, examining the papers. The total duration for such a mid term exam will be 30 minutes. The dates of the mid-term examinations will be as notified by the Controller of examination, WBSU.



**Attendance:** For attendance in theory classes for each course, a maximum of 2 marks are allotted. Based on her/his attendance recorded in the official registers, a student shall get, if,  $\geq 90\% = 2$ ;  $\geq 60\% = 1$ ; A student having  $< 60\%$  attendance shall be disqualified to appear for the end term exam, hence, considered failed in the Theory component of the course. Attendance sheets of each student in the registrar must be duly signed with dates by the course teachers and preserved carefully.

The marks obtained in the mid term exam by a student along with her/his marks for the attendance are to be sent to the Controller's office by the respective department through proper channel (i.e. the Principal / TIC) well before the onset of the end term examinations, the deadline date being specified by the Controller's office.

**Endterm:** Total marks = 40;

Question patterns= 2 marks x 8 questions ( 10 options) + 3 marks x 3 questions (5 options) + 5 marks\* x 3 questions (5 options) [ \* can be split further as 2+3 or 1+1+3, etc.]

The total duration of the 40 marks end term examination will be 120 minutes, i.e. 2 hours.

Questions for the end term will be set finally through moderation of (preferably) 3 sets of questions obtained from able subject teachers from the affiliated colleges, as selected by the UG-BoS in Zoology of WBSU. The set of moderators (at least 2) will also be selected by them. The students of a college will be appearing for the end term theory examinations at another college examination centre or as it would be instructed by the Controller of examinations, WBSU.

**P.S. Scoring below 30%** in the end term examination of a course by any student shall be considered as 'failed' in the Theory part of the course.

## 2.2 LAB / PRACTICALS

For the 2 credit practical component of a 6 credit course, evaluation will be on a total of 25 marks, Of which, 15 marks shall be evaluated internally (internal assessment) by the college, i.e., assessed by the course teachers taking practical classes and remaining 10 marks by external examiners through an end semester evaluation.

**Internal Assessment:** Out of the 15 marks allotted as internal evaluation the breakup of marks will be as follows

- **A total of 3 marks (i.e., 20%) are allotted on attendance**

[The marks (3) for attendance shall be allotted as

Attendance  $\geq 90\% = 3$  marks

Attendance  $\geq 75\%$  but  $< 90\% = 2$  marks

Attendance  $\geq 75\% = 1$  mark

Attendance  $< 60\% =$  Barred to appear for the end term evaluation, thus, failing to credit the lab / practical component of the course ]

- **12 marks (i.e. 80%) in the form of continuous assessments in the lab / practical classes:**

Lab / practical topics mentioned in the Lab Course content of the syllabus are to be learnt and practiced by the candidate under the guidance of the course teachers. The details of

such practicals actually done by the student, must be noted with the dates in a simple lab note book (preferably, of around A4 size) and to be signed after evaluation by the respective course teacher/s. The teacher must evaluate the overall performances (expectedly done more than once) of the student for each lab/practical topic and shall assign a justified score out of 10. At the completion of the course, the respective teachers must add up the scores obtained by a student in each lab topic and compute the final internal assessment score to be awarded to the student out of 12. A final tabular score sheet for each lab course has to be prepared showing each student's final score computed for the total marks of 12, along with the marks obtained in each practical topic by the student. All duly signed, this tabulated score sheet must be sent to the controller of examinations, WBSU through proper channel well before the end term examinations within the date specified by the Controller's office, WBSU.

P.S. However, the candidate **shall be barred from the Viva-Voce examination, if, he/she has not completed at least, 60% of the lab / practical topics mentioned in the respective course content of the syllabus**, as reflected in his/her lab note book duly checked and signed by the respective teacher/s in the college.

#### **External Assessment**

The End semester examination for the lab / practical component of a course shall be in the form of a **Grand Viva-voce (for a total of 10 marks)** on the practical topics learnt by the candidate during the course as reflected in the submitted Laboratory note book by him/her. The said Lab Note Book must be checked and duly signed by the course teacher/s. The viva-voce of each student will be taken by a set of at least two external examiners as appointed by the Controller of Examinations, WBSU. Questions will be asked by the examiners shall be on the practical topics learnt by the student as revealed in the submitted lab note book by her/him.

P.S. A student must get **at least 30% (i.e. 3) in the external assessment** to pass the Lab/ Practical component of a course.

#### **Notes on Pass marks and repeating a course**

A student must obtain overall 40% marks to pass each of the Theory and Lab / Practical components of any course, apart from having obligatory 30% scores in the external assessments and obligatory attendance above 60%, as explained above.

In case of failure in either Theory or Lab / Practical component of a course, the failed component has to be cleared successfully before the 5<sup>th</sup> Semester by a student to continue for the degree. The passed component will be carried over. In case of failure to clear both the Theory and Practical components, of course, whole course has to be credited again.



To

The Hon'ble Vice-Chancellor

West Bengal State University

Barasat

28/05/2018

Sub: Resolution of UGBoS meeting in Physics held on 24/05/2018

Respected Sir,

I hereby forward the resolution taken by the UGBoS in Physics, in its meeting dt. 24/5/2018, which considered in detail the mode of evaluation in different CBCS (UG) Physics courses.

Among others, the Board also resolves that the newly proposed Computer Applications course is NOT suitable as a Generic Elective (HGEC) paper for the students studying Physics Honours course. In this connection I would like to remind you that the UGBoS in Physics, vide resolution of the UGBoS meeting dt. 3/5/2018, has already recommended that

"GE for PHSA will be:

2 courses from Mathematics, and

Other 2 courses from any of the subjects Chemistry, Statistics, Computer Science and Electronics."

Please do the needful in this regard.

Thanking you. With regards,

*Bibhas Bhattacharya*  
(Bibhas Bhattacharya)

Dr. Bibhas Bhattacharya  
Associate Professor and Head,  
Department of Physics,  
West Bengal State University,  
Barasat, Kolkata-700128

OSD-A and  
Registrar (o)

PL send a copy  
of this note to  
all the Principals.

*OS*  
28/05/2018

*28/05/2018*  
*OS*  
*28/05/2018*





# West Bengal State University

Berunanpukuria, Malikapur, Barasat, 24 Parganas (North).  
Kolkata - 700 126  
Ph.: 2524-1975 / 1976 / 1977 / 1978 / 1979  
Fax: (033) 2524-1977

Ref: WBSU/COE/UGBOS-Physics/0265/2018 Date 22.05.18

Meeting of the UG BOS in Physics on 24/05/2018 at 12.00 noon.  
Venue: Confidential Work Room, First Floor, Administrative Bldg., WBSU

- To
1. Dr. Bibhas Bhattacharyya, Chairperson, WBSU.
  2. Prof. Bijay Bhushan Bal (Retd), SINP.
  3. Prof. Bimal Mondal, Bidhannagar College.
  4. Prof. Sankhasubhra Nag, S.N College for Women.
  5. Prof. Pinaky Sett, Gobordanga Hindu College.
  6. Prof. Arunabha Adhikari, WBSU.
  7. Dr. Anirban Saha, WBSU.

Sir/Madam,

The University requests your kind presence in the meeting stated above to discuss the following items:

1. Confirmation of the proceedings of the last meeting.
2. Finalization of the modalities regarding examinations in Physics courses under the proposed CBCS curriculum.
3. Miscellaneous.

With regards,

Yours sincerely,

*(Signature)*  
22.5.18

OSD(Admin)

In-charge of the office of the Controller of Examinations

Copy to the following for information and necessary action:

1. The V.C.'s Secretariat, WBSU
2. The Convener, UG BOS, Physics, WBSU
3. The Controller of Examinations, WBSU
4. The Finance Officer, WBSU
5. The Registrar's Department, Guard File, WBSU

Meeting

Members present:

1. Bibhas Bhattacharyya
2. Bijay Bal
3. Bimal Kumar
4. Sankhasubhra Nag
5. Arunabha Adhikari
6. Anirban Saha
7. Pinaky Sett

Agenda 1: Minutes confirmed.

Agenda 2: The B the modali

(i) Theory Paper

A. Internal done on

B. End-semester  
(a) 14 questions which are

(b) 20 questions which are



## Meeting of the UGBoS in Physics on 24/5/2018

Members present:

1. Bibhu Bhattacharya 24/5/18
2. Ajay ~~Bal~~ 24/5/18
3. Rishabh Kumar Mahtab 24/5/18
4. ~~Rishabh~~ 24/5/18
5. Anurag Bhattacharya 24/5/18
6. Anurag Bal 24/5/18
7. ~~Anurag~~ 24/5/18

Agenda 1: Minutes of meeting dt. 3/5/2018 were read and confirmed.

Agenda 2: The BoS resolves that the following regarding the modalities of evaluation of

(i) Theory Papers bearing 4 credits:

A. Internal assessment excluding attendance should be done on the basis of class test(s).

B. End-semester examination, papers will have

(a) 14 questions each bearing a full mark of 2, out of which an examinee has to answer any 10.

(b) ~~34~~ 4 questions, each bearing a full mark of 10, out of which an examinee has to answer any 2. However,



Each of such questions will have more than one part which may not <sup>be</sup> related.

- The questions will be evenly distributed over the whole syllabus.

## (ii) Theory Papers bearing 5+1 credit :

A. Internal assessment excluding attendance should be done on the basis of class tests.

B. End-semester examination papers will have

(a) 20 questions, each bearing a full mark of 10, out of which an examinee has to answer any 15.

(b) 4 questions, each bearing a full mark of 10, out of which an examinee has to answer any 2. Each of such questions will have more than one part which may not be related.

- The questions will be evenly distributed over the whole syllabus.

## (iii) Practical papers in Computational Laboratory :

I. Dr. Arunabha Adhikari and Dr. Sankhasubhram Nag, members of the present BOS, are requested to prepare a list of assignments, for each paper, based on the syllabus of the corresponding paper.

II. All the assignments are mandatory and the student ~~will~~ <sup>has</sup> to perform satisfactorily 60% of the assignments (in a given paper) to take the



part which  
a whole

end-semester examination in the corresponding paper, according to the regulation adopted by the University.

id be

III. Internal Assessment will be out of 15 marks and the break-up of the 12 marks for "performance of the student" will be as same as <sup>given in</sup> 1(v) of the resolution of the meeting <sup>UGBS</sup> dt. 3/5/2018. End-semester evaluation (10 marks) will be based on viva-voce consisting of assessment of underlying principle (5 marks) and programming (5 marks).

(iv) For both the Computational and non-Computational courses:

out of

On successful completion of an experiment/assignment by a student, the concerned teacher will sign the ~~Lab~~ Laboratory Note Book (a bound note-book) at the corresponding page with a note "satisfactorily performed".

out of  
Each of  
which

(v) Skill Enhancement Skill Papers:

the whole

The end-semester evaluation in the end-semester examination will be based on some hands-on demonstration by the student and viva-voce.

(i)

Nag,  
prepare  
syllabus

Agenda 3: (i) The BoS recommends that in the Computational Lab courses, not more than one student should be allotted to a terminal at a time.

student  
of the

(ii) Dr. Sankarabha Nag of Sarojini Naidu College reported that his college offers Computer Application as a general or Generic Elective (GEOR/ HGEC) course. He asked the Board to consider if the students of Physics Honors may be allowed to take this new discipline as a GE (HGEC). Dr. Arunabha Adhikari placed the syllabus



of this new discipline before the board. The B.S. resolved that (i) UGC has already prescribed a list of GE disciplines for Physics Hon; Computer Application is not included there.

(ii) Syllabus of Computer Application does not offer anything that can be considered subsidiary or Complementary to the Physics curriculum (Hon.).

Therefore, Computer Application will not be allowed as a choice of Generic Elective for the students of Physics Honours Course.