



Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur

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2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

- **Examination and Evaluation Committee**



Dada Ramchand Bakhru Sindhu Mahavidyalaya,
K.T.R. Marg, Panchpaoli, NAGPUR-17
EXAMINATION AND EVALUATION COMMITTEE

Following are the members of committee members of
Examination and Evaluation Committee (2022-2023)


In-charge : Dr. Mrs. Sujata Mankar


Member: 1) Dr. Mrs. Rashi Vaswani

2) Dr Mrs. Trupti Sakhare

3) Dr. Avish Patil

Email ID : smvexam_iqac@rediffmail.com


Dr. Mrs. Sujata Mankar
Examination And Evaluation Committee
Dada Ramchand Bakhru
Sindhu Mahavidyalaya, Nagpur-17


Officiating Principal
Dada Ramchand Bakhru
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• Schedule for Internal and University Examination

Examination and Evaluation Committee Schedule for Internal and University Examination Session 2022-23

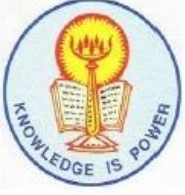
Sr. No.	Month	Examination
1	June	• Summer University Examination
2	July	• Unit Test I
3	August	• Unit Test II
4	September	• Unit Test III • Assignments
5	October	• Unit Test IV • Prelim Examination Odd Semester
6	November	• Winter University Examination
7	December	• Winter University Examination
8	January	• Unit Test I
9	February	• Unit Test II
10	March	• Unit Test III • Assignments
11	April	• Unit Test IV • Prelim Examination Even Semester
12	May	• Summer University Examination

In-charge


Dr. Mrs. Sujata Mankar
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
• Examination Pattern and Marking System



Dada Ramchand Bakhru Sindhu Mahavidyalaya, K.T.R. Marg, Panchpaoli, NAGPUR-17 EXAMINATION AND EVALUATION COMMITTEE

Examination Pattern & Marking system (Session 2022-2023)

Criteria	Max. Marks	Pattern	Mode	
1 Unit test (All semester)	15/20/25	Online test/ Assignments/ Oral / Surprise test/Open book test	Offline	
2 Internal Assignment (RTMNU) Semester-wise	Science	10	Assignments/ Project / Seminar	Offline
	Language & Mathematics	15		
	B.B.A.&B.Com	20		
	M.Com			
3 Term Exam (Odd & Even semester)	Science	50	Theory (As per RTMNU pattern)	Offline
	Language & Mathematics	60		
	B.B.A.&B.Com	80		
	M.Com			
4 Grade examination of EVS B.B.A. , B.Com & B.Sc. (Sem III / IV)	Theory	75	Online test	Offline
	Assignment	25	Project/ Assignment	
5 Internal Viva-voce	B.B.A., B.Com & M.Com		Oral/ Assignments/ Seminar	Offline mode
6 Project Work	B.B.A. Sem VI	200	Project work	Offline mode
	M.Sc Sem VI	100		
	M.Com Sem IV			
7 RTMNU Practical Exam	B.Sc.	30	Attendance, Expt., Practical record	Offline
	M.Sc	100		


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• E & E Committee Notices




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EXAMINATION AND EVALUATION COMMITTEE**

NOTICE

All the Head of the department are hereby informed to prepare soft copy of Question banks as per Examination Pattern & Marking system (Session 2022-2023) for M.SC., M.Com, B.Com, B.B.A. and B.Sc. students. The Department should conduct online / offline mode of Unit test exam (As per CO) as per their convenience and maintain the record (Notice, soft/hard copy & link of Question paper, Data sheet of Marks, Screenshots, etc.).


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NOTICE

All the Head of the department are hereby informed to give Assignments for Internal Assessment (Winter 2022) to all semester M.Sc., M.Com, B.Com, B.B.A. and B.Sc. Students.

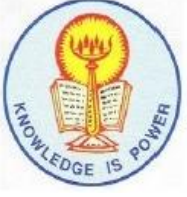

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
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NOTICE

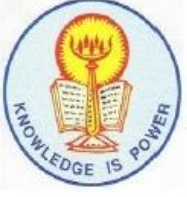
All the members of EXAMINATION AND EVALUATION COMMITTEE are hereby informed to attend meeting on 16th Feb. 2023 at 11:00am at Dept. of Microbiology.


In-charge
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Examination And Evaluation
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DATE : 17/04/2023

DRB SINDHU MAHAVIDYALAYA, PANCHPAOLI, NAGPUR (ACADEMIC YEAR 2022-23)

VIVA NOTICE

This is to inform all the students of B.COM. Sem II / Sem IV/ SEM VI that the VIVA VOCE will be held as per the schedule given below:-

TIME: 10:00 a.m. – 12.30 p.m.

Note:- Bring your Assignments.

DATE & DAY	CLASS	Room No.
24 -04-2023 MONDAY	<u>B.COM Sem VI</u> English Medium	GF-01
	Hindi Medium	GF-02
25 -04-2023 TUESDAY	<u>B.COM Sem IV</u> English Medium	GF-01
	Hindi Medium	GF-02
26 -04-2023 WEDNESDAY	<u>B.COM Sem II</u> English Medium	GF-01
	Hindi Medium	GF-02




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DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA, NAGPUR (Code:179)
DEPARTMENT OF COMMERCE
Preliminary Examination
B.COM SEM II, IV, and VI
TIME : 8.00 A.M. – 11.00 A.M.

DATE	B.COM SEM II	B.COM SEM IV	B.COM SEM VI
27-04-23 THURSDAY	COMPULSORY ENGLISH	COMPULSORY ENGLISH	MANAGEMENT ACCOUNTING
28-04-23 FRIDAY	SUPPLEMENTRY ENG. / HINDI / MARATHI	SUPPLEMENTRY ENG. / HINDI / MARATHI.	ADVANCE STATISTICS
29-04-23 SATURDAY	STATISTICS & BUSINESS MATHEMATICS	FINANCIAL ACCOUNTING –III	FINANCIAL ACCOUNTING
02-05-23 TUESDAY	BUSINESS ECONOMICS – II	MONETARY ECONOMICS	INDIAN ECONOMICS
03-05-23 WEDNESDAY	FINANCIAL MARKETS OPERATION	INCOME TAX	BUSINESS FINANCE
04-05-23 THURSDAY	COMMERCIAL SERVICES	SKILL DEVELOPMENT	INDIRECT TAX.

NOTE : 1] Question papers are of descriptive type and time duration is 3 hours.
2] Student should report 15 minutes before commencement of Examination.

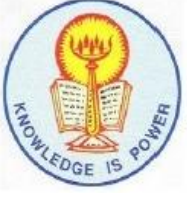
Date : 18-04-2023




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Department of Management (BBA)

Unit Test Time Table (2022-23)

BBA I SEM

SR NO	DATE	DAY	Time	SUBJECT
1	17/10/22	Wednesday	09.am to 10am	English I
2	18/10/22	Thursday	09.am to 10am	Aptitude Development
3	19/10/22	Friday	09.am to 10am	Foundation of managerial effectiveness
4	20/10/22	Saturday	09.am to 10am	Evolution of Business
5	21/10/22	Monday	09.am to 10am	Ms- Excel

BBA III SEM

SR NO	DATE	DAY	Time	SUBJECT
5.	17/10/22	Wednesday	09.am to 10am	Basic Statistical Techniques
6.	18/10/22	Thursday	09.am to 10am	Environmental management
7.	19/10/22	Friday	09.am to 10am	Evolution of Business and Commercial Geography
8.	20/10/22	Saturday	09.am to 10am	

BBA V SEM

SR NO	DATE	DAY	Time	SUBJECT
5.	17/10/22	Wednesday	09.am to 10am	Entrepreneurship Development
6.	18/10/22	Thursday	09.am to 10am	Research Methodology
7.	19/10/22	Friday	09.am to 10am	Production operation management
8.	20/10/22	Saturday	09.am to 10am	International Business Management

Note:

- 4) Each question is compulsory
- 5) Unit test will be of 1 hour
- 6) Question paper is of 25 marks.

HOD




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DATE: 18/04/2023

DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA
Faculty Of Commerce & Mangement
SESSION 2022-23
NOTICE


Following is the list of the teachers incharge of Viva- Voce to be conducted for **B.Com.I, II, III** for the academic session 2022-23:

Duties of Incharges:

1. Preparation of Viva subject sheets, consolidated, attendance sheet.
2. Submitting Report of Online Marks in University.
4. Collecting and Filing Acknowledgement of Report and Final Marks Reports.
5. Any problem related to viva marks of the students will be solved by the concerned subject teacher.

Class	Name of the Teacher
B.Com. I	Dr. K.S.Gupta (Incharge) Dr. (Mrs.) Suman Keswani Dr. (Mrs.) Richa K. Kalyani Dr. Amit S. Nanwani Ms. Roshni Patil/ Lonare
B.Com.II	Dr. Sapna Tiwari (Incharge) Dr. Jayant K. Walke Dr. (Mrs.) Reema K. Kamlani Dr. (Mrs.) Bhavna U. Choudhary
B.Com. III	Dr. Mukesh H. Kaushik (Incharge) Dr. Anushree Mahajan Mr. Rizwan Khan




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D.R.B. Sindhu Mahavidyalaya Department of Microbiology



NOTICE

All the student of B.Sc. Sem-III and Sem-V (MICROBIOLOGY) are hereby to inform that **Preparation Day** for RTM Nagpur University Practical exam Winter -2022 will be commence on-

Semester	Date	Reporting Time	Batch
Sem-III	29 th Dec., 2022	2:00 pm	MBBC & MBBT
Sem-V	19 th Dec. , 2022	10:30am	MBBC & MBBT

Note: All students have to bring following items:-

- 1) Practical record duly signed by teacher (Certificate)
- 2) Inoculating Needle
- 3) Lab. apron
- 4) Glass Marker
- 5) Lighter / Match Box
- 6) Forceps

[Signature]
16/12/2022
H.O.D.



[Signature]
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• **Unit Test**

Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur
Department of Zoology
Session 2022-23
M.Sc. II Sem III
Unit Test 1
Paper-I, Parasitology and Immunology

Unit - III

Time: 60 min

Max. Marks: 20

Q. 1	Explain classical, alternative and lectin pathway. Write note on biological consequences of complement activation	16M	CO8
	OR		
i)	Write short note on cells and organs of immune system	08 M	CO6
ii)	Describe innate and adaptive immunity. Add note on antigen and antibodies interaction	08 M	CO5
Q.2	Write in brief the following:		
	MHC molecule	04 M	CO7




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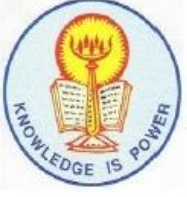


DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA, NAGPUR
DEPARTMENT OF ZOOLOGY
SESSION 2022-23

Semester I Paper II (Environmental Biology) Unit IV			
Time: 45 min		[Max. Marks: 15]	
Instructions to Candidates:			
1) All questions are compulsory.			
2) Draw well labeled diagram wherever necessary.			
Question	Description of Question	Marks	CO
1 (a)	Describe sources and effects of Air pollution	10	C11
-- OR --			
(a)	Sources of Noise pollution	05	C11
(b)	Biomagnification	05	C12
2	Write 4 or 5 lines on the following		
i.	Decibel	01	C11
ii.	Eutrophication	01	C11
iii.	Acid rain	01	C11
iv.	Sewage	01	C11
v.	Green house effect	01	C11

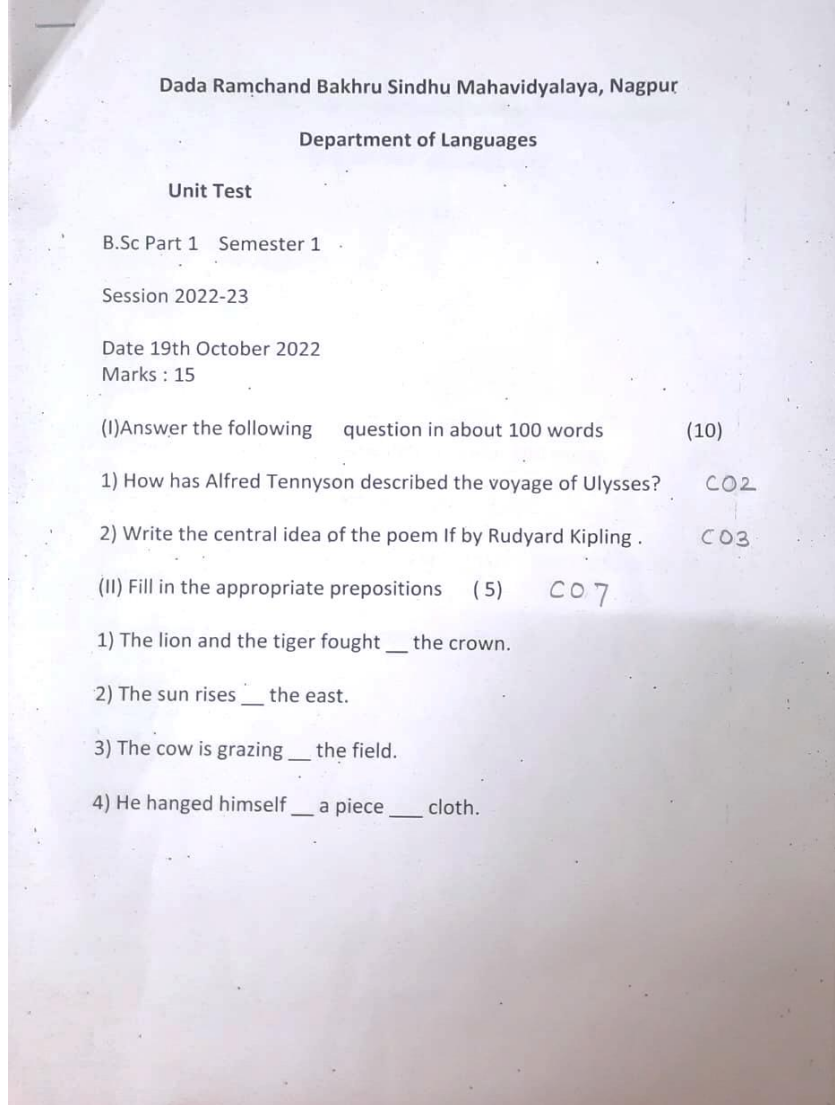



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Academic session 2022-23

M.Sc. Mathematics Part-I

SEM – I

UNIT TEST

PAPER - III (TOPOLOGY-I)

UNIT – II

Time: 60 min

Max. Marks: 25

Q. 1	Define a subspace of a topological space (X, τ) and prove that it is also a topological space.	10M	CO9
	OR		
	Let τ^* be a family of closed sets in a topological space (X, τ) , then prove that τ^* is closed with respect to arbitrary intersection and finite union.	10M	CO10
Q. 2	In a topological space (X, τ) prove that a set is closed iff its complement is open set.	10M	CO10
	OR		
	Let N_0 be a cardinal number of a set of natural numbers N , then prove that both equations $N_0 x = N_0$ and $N_0 + x = N_0$ have a solution $x = N_0$.	10M	CO9
Q. 3	Topologize the real numbers by choosing as a base the family of all half-open interval $[a, b)$, for every pair of real numbers a and b . Verify that this is a base for a topology and describe the open sets.	5M	CO9




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DEPARTMENT OF ZOOLOGY
SESSION 2022-23
UNIT TEST (SEM. III Paper I Unit IV)

Time -45 min Max. Marks-15

Semester III Paper I -Life and Diversity of Animals-Chordates (Protochordata to Amphibia)			
Unit IV			
Time: 45 min		[Max. Marks: 15]	
Instructions to Candidates: 1) All questions are compulsory. 2) Draw well labeled diagram wherever necessary.			
Question	Description of Question	Marks	CO
1 (a)	Write in brief development of respiratory organ in frog.	10	C12
-- OR --			
(a)	Aortic arches of frog	05	C12
(b)	Gastrulation in frog	05	C10
2	Write 4 or 5 lines on the following		
i.	Yolk plug	01	C10
ii.	Fate map	01	C10
iii.	Blastocoel	01	C11
iv.	Emboly	01	C11
v.	visceral arch	01	C12




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PG Department of Botany

Session: 2022-2023

M.Sc.- Semester II

Unit test- 02, Module III & IV

Paper II -Plant Development & Reproduction

Total Marks: 20M

Q1. Describe in detail about male gametophyte

[16] (CO3)

OR

Write notes on:

(a) Pollen-pistil interaction

(b) Write in detail about programmed cell death

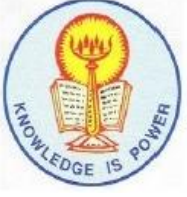
Q2. Write notes on:

[04] (CO4)

Senescence




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B.com Sem I

SUBJECT- COMMERCIAL SERVICES

Unit Test 1

Session 2022-23

Total Marks 20

1. Define Commercial Services. And explain its scope.

वाणिज्यिक सेवाओं को परिभाषित करें। तथा इसके कार्यक्षेत्र को व्याख्या कीजिए। co1 6

2. Explain in detail the future opportunities in Aviation Services/ Industry in India.

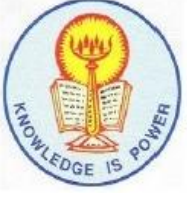
भारत में विमानन सेवाओं/ उद्योग में भावी अवसरों की विस्तार से व्याख्या कीजिए। co2 6

3. Explain Emerging Trends in the Indian Hospitality Industry in detail.

विस्तार में भारतीय आतिथ्य उद्योग में उभरते रुझान समझाओ। co2 8




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Unit Test I Examination 2022-23

B.COM SEM IV

SUBJECT- INCOME TAX

MAX MARKS- 20

1) Explain different category of persons as per Income tax act 1961?

आयकर अधिनियम 1961 के अनुसार व्यक्तियों की विभिन्न श्रेणियों की व्याख्या करें?

Co1 4

2)) Mr. Ajay is a Government employee who gives the following details. Calculate the amount of Entertainment allowance to be deducted U/S 16(ii).

Basic Salary — 15,000 p.m.

D.A. (not entering) 1,500 p.m.

City compensatory allowance 1,000 p.m.

Entertainment allowance 800 p.m.

co2 8

3. Shane Warne, an Australian cricket player, has been coming to India since 1995-96 every year to play cricket and has been staying here for about 4 months. What will be his residential status for the assessment year 2022-2023.

Co2 8




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DEPARTMENT OF COMMERCE

UNIT TEST – I

SESSION : 2022-23

CLASS : B.COM SEM III

SUB : MONETARY ECONOMICS (Unit 1 & 2)

Q: 1 A) Explain the functions of money.

OR

B) Explain the concept of Paper Currency and write the advantages and disadvantages of Paper Currency.

CO1 (08)

2) a) Discuss the causes and impact of deflation.

OR

b) "Inflation is unjust but deflation is dangerous." Comment

CO2 (08)

3 Explain concept of Metal Money and Plastic Money

CO1 (04)




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DADA RAMCHAND BAKHRU SINDHU MAHAVIDHYALAYA, NAGPUR DEPARTMENT OF MICROBIOLOGY B.Sc Sem I Paper—II (Basic Techniques in Microbiology) Unit test –I



Total marks:10M

Timing :48 min.

			Marks
Q.1	Solve any One		
A	Describe the Bright-field microscope. Draw its well labelled diagram and give functions of each part.	CO1	5
B	Describe the principle and applications of TEM and SEM. Give their differences	CO1	5
Q.2	Each Question Carry One Marks (5x1)		
i.	What is Phase contrast microscopy	CO1	1
ii.	Give the function of oil when used with oil-immersion objective.	CO1	1
iii.	Define resolving power.	CO1	1
iv.	Give one application of Dark Microscopy?	CO1	1
v.	What is Ocular lens ?	CO1	1



DADA RAMCHAND BAKHRU SINDHU MAHAVIDHYALAYA, NAGPUR DEPARTMENT OF MICROBIOLOGY B.Sc Sem II Microbiology (paper I unit I(Prokaryotic microbes)



Total Marks = 10

Timing:48 min

Q.1	Solve any two		Marks
A	Give general characters of methanogenic bacteria.	CO1	2½
B	Give descriptive account of mycoplasma.	CO1	2½
C	Give notes on Rickettsia	CO1	2½
Q.2	Each Question Carry One Marks (5x1)		
i.	What is energy parasite?	CO1	1
ii.	What is Proteobacteria ?	CO1	1
iii.	Define Archaeobacteria.	CO1	1
iv.	Which bacteria produces antibiotics ?	CO1	1
v.	Give the name of cyanobacteria which fix N ₂ .	CO1	1



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NAGPUR

Academic session 2022-23

M.Sc. Mathematics Part-I

SEM - I

UNIT TEST

PAPER - I (ALGEBRA-II)

UNIT - II

Time: 60 min

Max. Marks: 25

Q. 1	State and prove Einstein criterion theorem.	10M	CO21
OR			
	State and prove Kronecker theorem.	10M	CO21
Q. 2	Show that $x^3 + ax^2 + 6x + 1 \in Z[X]$ is reducible over Z if and only if either $a = b$ or $a + b = -2$.	10M	CO21
OR			
	Let $P(x)$ be an irreducible polynomial in $F[x]$. Then show that there exists an extension E of F in which $P(x)$ has a root.	10M	CO21
Q. 3	Find the smallest extension of Q having a root $(x^2 - 2) \in Q[x]$.	5M	CO21




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DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA,
NAGPUR

Academic session 2022-23
M.Sc. Mathematics Part-II

SEM - IV
UNIT TEST
PAPER - IV (COSMOLOGY)

UNIT - I

Time: 60 min

Max. Marks: 25

Q. 1	Explain the geometry of Einstein's Universe.	10M	CO97
	OR		
	Write a note on companion of de-sitter model with actual universe.	10M	CO98
Q. 2	Discuss the motion of test particle in Einstein universe.	10M	CO97
	OR		
	Explain Doppler effect in the de-sitter universe.	10M	CO98
Q. 3	Write a note on static models of the universe.	5M	CO97




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• Prelims Examination

DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA, NAGPUR

Preliminary Examination 2022-23
Bachelor of Commerce (B.Com.) Semester-II
FINANCIAL MARKET OPERATIONS

Compulsory Paper—2

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) ALL questions are compulsory.
(2) All questions carry equal marks.

1. (a) Write the meaning of Investment Companies. What are the different functions of investment companies? 8 C01
(b) What are Development Banks? What functions are performed by Development Banks? 8
- OR
- (c) Write in brief about SEBI [Securities Exchange Board of India]. Throw light on its functions and role. 16
2. (a) What is Capital Market? Write the Characteristics and Importance of Capital market. 8 C02
(b) What is Primary Market? Write about the different constituents/Players of Primary Market. 8
- OR
- (c) Explain different methods of procuring Long Term Funds. 16
3. (a) What is Secondary Market? Write about its Role and Importance. 8 C03
(b) Write a note on National Stock Exchange. 8
- OR
- (c) Explain in detail the functions of Stock Exchange. 16
4. (a) Define Money Market. Write in brief about its different constituents. 8 C04
(b) What do you mean by Credit Rating? What are its Benefits? 8
- OR
- (c) Write in brief about role and functions of Credit Rating Agencies CRICIL and ICRA. 16
5. Answer in brief :
- (a) What do you mean by Merchant Banking ? 4 C01
(b) Differentiate between Right Shares and Bonus Shares 4 C02
(c) Write short notes on Bombay Stock Exchange . 4 C03
(d) Write about Treasury Bills & Commercial Papers ? 4 C04

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**Dada Ramchand Bakhru Sindhu Mahavidyalaya,
Panchpaoli, nagpur
Preliminary Examinations, Summer 2022-23
Bachelor of Commerce (B.Com.) (Semester-VI) Examination
ADVANCE STATISTICS**

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) ALL questions are compulsory.

(2) All questions carry equal marks.

1. (A) Explain the merits and limitations of co-efficient of Correlation.

8 CO1

(B) Calculate Rank co-efficient of correlation :

x	=	80	91	99	71	61	81	70	59
y	=	123	135	154	110	105	134	121	106

8

OR

(C) Calculate the co-efficient of correlation from the following data :

Test Marks	Age in Year				Total
	19	20	21	22	
200—250	4	4	2	1	11
250—300	3	5	4	2	14
300—350	2	6	8	5	21
350—400	1	4	6	10	21
	10	19	20	18	67

16

2. (A) Explain the utility and importance of Regression.

8 CO2

(B) Find out by Regression equation :

Average Age of Husbands 25 years

Average Age of Wives 22 years

Standard Deviation for Age of Husbands 4 years

Standard Deviation for Age of Wives 5 years

Co-efficient of correlation between age of Husband and Wives = 0.8.

8

OR

(C) Find out the following :

(1) Co-efficient of correlation

(2) Two regression equation

(3) Most likely value of X when Y = 36

(4) Most likely value of Y when X = 52




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X : 50, 52, 55, 51, 54, 56, 52, 48

Y : 36, 34, 35, 40, 41, 35, 40, 34

16

3. (A) What are the types of Index Numbers ? Explain.

8 C03

(B) Following are the prices of six different commodities during 2016 and 2018 :

Commodities	Price in Rs.	
	2016	2018
A	80	70
B	100	90
C	120	50
D	60	100
E	90	120
F	150	140

Construct cost of living index number :

(i) By simple aggregative method

(ii) By average of price relatives method.

8

OR

(C) Calculate the Index Number :

(1) By Laspeyre Method

(2) By Paasche's Method

(3) By Fisher's Ideal Method

(4) By Dorbish and Bowley Method

Article	2015		2016	
	Price	Qty.	Price	Qty.
Wheat	8	100	10	120
Rice	4	60	5	80
Sugar	10	20	12	25
Dal	12	25	15	30
Jowar	3	5	4	6

16

4. (A) What do you mean by "Time Series" ? Write down its utility and components. .

8

C04

(B) Calculation three yearly moving average, of the following data :

Year	: 2009	2010	2011	2012	2013	2014
No. of Students	: 30	36	39	40	46	50
Year	: 2015	2016	2017	2018		
No. of Students	: 58	66	72	80		

8

OR

(C) By applying least square method, find out the production for the month of November in



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particular year and with a trend value :

Month	: January	February	March	April	May	June	July	August
Production (In Lakhs)	: 120	135	138	125	141	147	140	132

16

5. (A) Find out correlation :

- (1) Total of product of deviation of 'x' and 'y' series from their respective mean = 122
- (2) Variance of x = 36
- (3) Variance of y = 64
- (4) n = 30

4 C01

(B) Find out regression co-efficient of x on y and y on x :

$$n = 9; \sum dx dy = 57; \sum dx = 9$$
$$\sum dy = 0; \sum dy^2 = 60; \sum dx^2 = 69$$

4 C02

(C) Following information relating to workers in an industrial town is given :

Item of Consumption	Consumer Price Index in 2017	Proportion of Expenditure on Item
1. Food	225	52%
2. Clothing	175	8%
3. Fuel of Lighting	115	10%
4. Housing	250	14%
5. Miscellaneous	150	16%

Find out cost of living index number.

4 C03

(D) By applying least square method, find out the sale for the month November in the year 2016 :

$$\text{Middle Years} = 4.5^{\text{th}} \text{ Year (From top i.e. April-May) Average}$$

$$\text{Sale} = 224.55$$

Rate of Growth = 2.2

4 C04




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Department of Zoology
Session 2022-23
M.Sc. II Sem III
Prelims Examination
Paper-II, Animal Physiology I

Time: 3 Hrs

Max. Marks: 80

Q.1	Describe in detail the salivary glands with reference to histology and mechanism of saliva secretion	16M	CO2
	OR		
	Write short notes on -		
a)	Mechanism of secretion of gastric juice	08M	CO2
b)	Composition and function of bile	08M	CO3
Q. 2	Give a detailed account on the histology of small intestine, intestinal glands, its secretion and control	16M	CO5
	OR		
	Write short notes on -		
a)	Digestion and absorption of protein in the GI tract	08M	CO5
b)	Gastrointestinal hormones	08M	CO7
Q,3	Discuss in detail the mechanism of formation of urine	16M	CO8
	OR		
	Write short notes on -		




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a)	Structure of nephron	08M	CO8
b)	The counter current mechanism in Kidney	08M	CO9
Q.4	Explain in detail aldosterone-renin-angiotensin system	16M	CO10
	OR		
	Write short notes on -		
a)	Renal Failure	08M	CO12
b)	Renal Clearance	08M	CO11
Q.5	Write in brief on the following :	16M	
a)	Histology of pancreas		CO3
b)	Absorption of carbohydrate in GI tract		CO6
c)	Abnormal constituents of urine		CO9
d)	Hormonal mechanism of ADH in renal physiology		CO10




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• Internal Assessment



Dada Ramchand Bakhru Sindhu Mahavidyalaya
Department of Biochemistry

Session- 2022-23



Internal Assessment

Semester III - PAPER - I
(MACROMOLECULES)

- Q.1.a) Note on Edman's reaction.
b) Note on Merrifield-Gutt synthesis.
- Q.2) Describe in detail structure and function of collagen
- Q.3) A detail account of forces stabilizing nucleic acid structure
- Q.4) Describe DNA sequencing methods.

Semester III - PAPER - II
(BIOPHYSICAL TECHNIQUES)

- Q.1) Beer's law derivation and deviation.
- Q.2) a) Spectrofluorimetry
b) Titration curve of weak acid.
- Q.3) Detail account of gel filtration chromatography.
- Q.4) Write a note on principle and working of ion exchange chromatography.



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Dada Ramchand Bakhru Sindhu Mahavidyalaya
Department of Biochemistry

Session- 2022-23



Internal Assessment

Semester I - PAPER I BIOMOLECULES & HUMAN PHYSIOLOGY

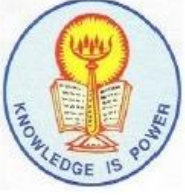
1. Structure, occurrence and biological importance of monosaccharides, oligosaccharides
2. Describe detail account of Glycerophospholipids.
- 3 a) Neuromuscular Junction b) Digestion and absorption of proteins.
4. Describe Fluid mosaic model of Singer & Nicolson

Semester I - PAPER II (MICROBIOLOGY & VIROLOGY)

1. Theory of spontaneous generation. Discuss controversy over spontaneous generation.
2. Discuss lytic cycle of T4 phage
3. Describe gram negative cell wall structure in detail
4. Write note on various phases of bacterial growth curve.



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Department of Biochemistry

Session- 2022-23



Internal Assessment

Semester II - PAPER I

HUMAN PHYSIOLOGY

1. Give detail account of mechanism of urine formation.
2. Describe histological structure of ovary and testis.
3. Explain the mechanism of conduction of nerve impulse along myelinated and non myelinated nerve fibres.
4. Describe the mechanism of action of peptide hormone using cAMP as second messengers.

Semester II - PAPER II

MICROBIOLOGY AND IMMUNOLOGY

1. How are bacteria classified on the basis of nutrition
2. Write note on a) Methods of pure culture.
b) Any two physical methods of microbial control.
3. Describe structure of Immunoglobulin and its types.
4. Describe Hybridoma technology and its applications.



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Department of Microbiology, D.R.B. Sindhu Mahavidyalaya



FINAL ASSIGNMENT for B.Sc. SEMESTER-IV (MICROBIOLOGY)

Session (2022 – 2023)

PAPER – I: Metabolism

Unit 1	1.	Explain Pentose –phosphate pathways in Detail.
	2.	Describe in detail EMP pathway and its regulation.
	3.	Explain TCA cycle in detail.
Unit 2	4.	Give detail of different mode of replication of DNA.
	5.	Describe in detail of Prokaryotic transcription.
Unit 3	6.	Explain genetic code in detail.
	7.	Explain the deamination process of alanine, tyrosine and Methionine?
	8.	Explain Prokaryotic translation in detail?
Unit 4	9.	Describe oxidative phosphorylation in detail?
	10.	What are high energy molecules? Explain ATP generation?
	11.	Explain cyclic and non-cyclic photophosphorylation.
	12.	Explain Substrate level phosphorylation with suitable examples.

- ✓ Submit On 20th April 2023
- ✓ Write any two questions per Unit .
- ✓ Draw diagram according to question
- ✓ Front page - Orange colored A4 size with given Format

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09/4/23



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