

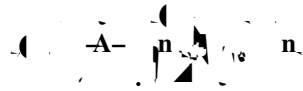
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Particulars

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Max-Marks	:	
Written	:	24 Marks
Int-Ass-	:	Marks
Time	:	Hours

i- The paper shall be divided into two sections i.e. **Part A** and **Part B**. The distribution of marks in each section shall be indicated separately again.

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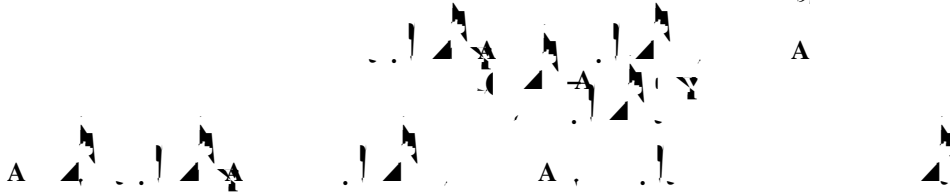
B-A-B- C-GENERAL-

B-A-B- C-GENERAL-^o HIRD YEAR EME T ER

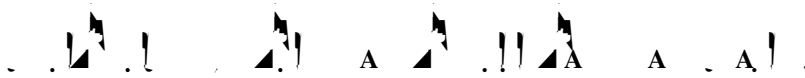
Ghadar Movement: Origin and Activities
Jallianwala Bagh: Circumstances and Consequences
Gurudwara Reform Movement: Causes and Consequences

Response to Non Co operation & Civil Disobedience
Partition: Circumstances: Impact
Map: Delhi Aritsar Lahore Lyallpur Montgomery Jaito Nanana ahil Kheran Karnal
Taran Jalandhar Jalandhar Jalandhar

- Fatma Singh ed. *History and Culture of the Punjab, Part II*, Publication Bureau Punjab University Patiala 1962
- 2. Fatma Singh *Freedom Struggle in the Punjab*, Punjab University Patiala 1962
- J. S. Grewal *The Sikhs of the Punjab* The New Cambridge History of India Orient Longman 1990 Foundation Books New Delhi 1992
- 3. Khushwant Singh *A History of the Sikhs* 2-II 1999 Oxford University Press Delhi 1999
- Atiya M-Rai *Heroic Tradition in the Punjab*, 1962 Punjab University Patiala 1962
- P-N-Chopra B-N-Puri and M-N-Das *A Social, Cultural & Economic History of India*, 2-III Macmillan 1962
- K-C-Yadav and M-Fogat *Haryana Aitihāsik Simhavalokan* Hindi-Haryana Ahitya Akademi Chandigarh 1992

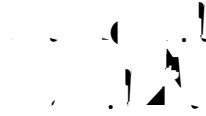


To introduce the students to the history of the region in the post 9th period-
Lectures library work and discussions-



The syllabus has been divided into four units-

There shall be 9 questions in all -The first question is compulsory and shall be short answer type containing short questions spread over the whole syllabus to be answered in about 2 to 3 words each-The candidates are required to attempt any short answer type questions carrying marks as indicated for each-Rest of the paper shall contain 2 units-Each unit shall have two essay type questions and the candidate shall be given internal



English
B.A. III

The main aim of teaching English Elective- to B-A-III students is to enable the students to approach a wide variety of literary texts and genres with critically sensitive and analytical understanding. The idea is to introduce the students to the basic concepts of literature and also empower the students to read and analyze and write about a poem, prose, essay or drama in an independent manner. It is with this modest aim in mind that the new text books have been selected for B-A English Third Year Elective-courses. The focus of the new text books

31.	-	32	-	33	-
34	-	35	-	36	-
37.	-	38	-	39	-
40	-	41.	-	42	-
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46	-	47.	-	48	-
49	-	50	-		

UNIT - III

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UNIT - IV

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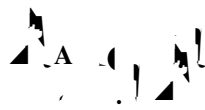
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B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-29

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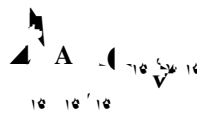


There will be two Paper setters Examiner-

PAPER A . PRO E

100

- Arthur RIMBAUD
Recueil de Poésies
Le dormeur du val



Max-Marks: 100
Paper: A Theory: 90
Internal Assessment: 10

 A

Note: Use of dictionary is allowed

- i- Explanation and interpretation of any two poems or three stanzas from the prescribed book German: Kästner's 'Chapeau' and 'Hyperion's' 'Die Hölle' in German.

B-A-B- C-GENERAL-^o HIRD YEAR EME T ER

B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-2022 SYLLAB

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n

Practical Dissertation. Independent translation of about 200 words from Russian literary socio political popular science texts into English Hindi Punjabi-

OR

Oral Narration in Russian on any two of the following topics.

-Biography of any Indian Russian personality -Na

1. A ...

- A ...

- A ...

- A ...

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- A A A ...

- ...

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Meaning aim and objectives of the camp-
Advantages of camping outdoor education-
Types and agencies promoting camping-
Organization of camps and factors affecting its organization-
Educative values of a camp-

A. Organization of an athletic meet-
Importance significance of an athletic meet-

Mar 5

Meaning types and importance of a good posture-
Causes preventive and remedial measures of a poor posture-

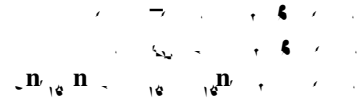
Postural deformities Kyphosis Lordosis scoliosis and flat foot- their causes preventive and remedial measures-

Physical fitness and its components
Health related risk factors of obesity-

B-A-B-C-GENERAL-THIRD YEAR EME T ER Y T EM- 2 9 2 2 YLLAB

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-Bd AJ-



- a- History of athletics
- b- List of track and field events
- c- Marking of standard track width of lanes and starting points for various races-

B-A-B- C-GENERAL-

Time Hrs-

Max-Marks

Theory

Marks

Internal Assessment

Marks

a- There shall be nine questions in all spread over Five units-

b- First question unit is compulsory-It will contain six short answer type questions spread over the whole syllabus to be answered in brief-It will carry 20 marks-

c- Rest of the paper shall contain four units for descriptive questions-Each unit shall have two questions and the students shall be given internal choice i.e-the students shall attempt one question from each unit-

d- All questions units will carry equal marks-

e- Private candidates and the students of the university school of Open Learning will not be allowed to take this subject-

..)

Marks

Entire syllabus given in the unit II to will be covered to set six short answer type questions in first question unit of the question paper which is compulsory-

..)

Marks

10/10

Meaning of Nervous system -

Main organs of Nervous system and their functions-

Reflex action and Reciprocal Innervations-

Functional classification of Nervous system -

10/10

Meaning of Excretory system -

Main organs of Excretory system and their structure and functions-

10/10

Meaning of n

Mar s

Meaning definition and objective characteristics and principles of sports training-

Physiological concepts such as vital capacity second wind stitch in the side and its causes-

Definition of oxygen debt excess post exercise oxygen consumption EPOC-and its implication-

Meaning definition and types of fatigue-

Muscular contractions such as isotonic isometric eccentric and isoinertic-

Meaning of Blood pressure Hypertension. Its causes effects and treatment exercise and Hypertension-

Effects of Physical exercise training on muscular respiratory and circulatory systems of the body-

Mar s

Carrier options in Physical Education-



A.

Badminton or Hockey and any other one game of the choice of the student--

1. n n,

a- Measurement Badminton Court Net Racquet and

-Admission Criteria:

- i- Any student opting to have Physical Education as an Elective subject irrespective of the background of the students sports or non sports students- must appear in the physical fitness test-Running should be prepared and the top students should be offered this subject-
- ii- This subject should be offered to the normal students not to disabled one-
- iii- To measure Physical Fitness through Cardiovascular Fitness Test Cooper's 9 Minutes or 2 Minutes Running Test should be conducted-
- iv- The date of Physical Fitness Test must be mentioned in the prospectus of the College-

2-Periodical Physical Inspections :

The University Authorities with the chief - Medical Officer-

-Teaching Work Load:

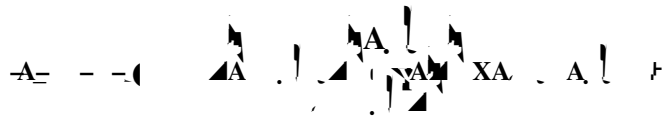
i- As per the Panjab University Calendar Chapter XX Page 9 - Clause III 99 the maximum teaching workload for a Assistant Professor in Physical Education for B-A-Pass course is 36 periods per week which includes theory as well as practical -

ii- Teachers who are preparing teams for the Panjab University Inter College Competition their workload shall be counted by including six periods per week in the teaching load of concerned teacher in Physical Education-

-Division of Marks (Theory and Practical):

50% and 50% weightage shall be given to each theory and practical papers-

Note : STRICT ACTION SHALL BE TAKEN BY THE UNIVERSITY AGAINST THE VVI 999 A-



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Max-Marks	100
Theory	90
Internal Assessment	10
Time	3 hours



The question paper will consist of five units I II III IV and V – units I II III and IV will have two questions from the respective unit of the syllabus and will carry 20 marks each – unit V will consist of eight short answer type questions which will cover the entire syllabus uniformly and will carry 20 marks – The students are required to attempt short answer type questions out of 10 in unit V which will be compulsory – The question paper should preferably carry internal division of 20 marks for all the sub questions of one main question – Preferably set the words limit for answer 100 words for units I II III IV and 150 words for each short answer question in unit V –



The students will be required to attempt one question each from unit I II III and IV – unit V will be compulsory – The students are required to attempt short answer type questions out of 10 in unit V – The words limit will be 100 words for unit I II III and IV and 150 words for each short answer question in unit V –

10

- To enable the students to know about History of Indian Education–
- 2. To enable the students to understand the problems of primary Education–
- To make the students familiar with the concept of universalization of Elementary Education and its problems–

1. Importance of Elementary Education-
Universalization of Elementary Education- Problems of Elementary Education and Role

Answer any three questions from the following. Each question carries 10 marks.

1. Discuss the importance of the following: (a) ... (b) ... (c) ...

Max-Marks : 90
Theory : 90 marks
Internal Assessment : 10 marks
Time : 3 hours

2. Discuss the importance of the following: (a) ... (b) ... (c) ...

The question paper will consist of five units. I, II, III, IV and V – units I, II, III and IV will have two

1. Introduction of National Policy of Education of 1986 and 1992

Education in the Twentieth Century

Problems and Prospects of Education for the 21st century-

2. Educationalisation of Education - Meaning Need and Importance-

Aims Objectives and Problems of Secondary Education-

Role of different Agencies - NCERT, NCTE AND DIET -

3. Adult Continuing and Distance Education-

Environmental Education ICT in Education-

-A- - - (A . . . A . . . A . . . XA . A . . .

Max-Marks : 70
 Theory : 70 Marks
 Internal Assessment : 10 Marks
 Time : 3 hours

A . . . A . . . A . . . A . . . A . . . A . . .

The question paper will consist of five units. I, II, III, I and - units II, III, I and will have two questions from the respective units of the syllabus and will carry 10 marks each. The students are requested to attempt one question from each unit i.e. II, III, I and - unit I will consist of 10 short answer type questions which will cover the entire syllabus and is compulsory and carrying one mark for each question.

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The objectives of the paper are .

- To expose students to the concept, importance and scope of continuing education-
- 2. To acquaint students with the basis of life skills education, its concept, meaning and its various forms-
- To expose students with lifelong learning and its future perspectives-
- 3. To equip students with role of universities in adult and continuing education programs-
- To explain students extension as third dimension-

A . . . A . . . A . . .

- A . . . n . . . n . . . n . . . n . . .
- a- Adult Literacy in reference to National Literacy Mission 9 its objectives-
 - b- Continuing Education . Concept, Importance, scope and Objectives

- a- aa hshar Bharat Mission 2020 its targets and specific objectives-
- b- Hexi Approach to aa hshar Bharat Mission 2020 and Continuing Education-

- a- Life Long Learning Concept Needs scope strategies-
- b- Its Implications and Future Perspectives-

- a-

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 SYLLAB



Notes

- In case of the private candidates there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased-
- There should not be more than eight students in a batch for practical examination-
- Harmonium will not be allowed as accompaniment in vocal music but harmonium can be used while singing of anars-
- The candidate can take vocal music along with instrumental music-
- The candidate can also take instrumental music with tabla-
- In all nine

B-A-B- C-GENERAL-

B-A-B- C-GENERAÆ

- Teenta Jhaptā Rupa Aada Chartā Tīvara Punābitā
- 2. To write description of Tā of your syllabus
- To write the notation of Tā in English Double Tīgun Chaugun Aad and Kuaad

- Playing of Tā as prescribed in the course. Aada Chautā Tīvara and Punābitā
- 2. Playing proper Badhat of Aada Chautā Teenta
- Playing of the prescribed Tā as with vocal and Instrumental performances as well as soloists
- 3. Tuning of Tā a Pa hawā
- Practical knowledge of the following in the prescribed Tā as.
 - i- Aada chartā a si p e Paran Mu hra Mohra than
 - ii- Rupa Tēevra Pesh ar Quaida Pā ta Rā a Paran-

- Tā a Parichya Part I II III
 - 2. Bhartiya Tā on a hastriya iverchan
 - Tā a Maartand
 - 3. Bhartiya angeet adya
 - Har are angeet Ratna
 - Tā a adya hastra
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|---------------------------|
| G-C- rivastav |
| Arun Kumar en |
| B- - har a |
| L-M-Mishra |
| angeet Karyāy Hathras |
| Manohar Bhā chand Marathe |

B-A-B- C-GENERAL-

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- Dha ar Aada chautad Jhaptad
- 2 To write description of ad of the syllabus
- To write the notation of ad in inge Double ti

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- The ninth question of unit v is compulsory it consists of short answer questions covering entire syllabus i.e-theory and practical-out of which students have to attempt 9 questions of carry marks each-

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b- T he a
c- B d T at ar
d- T u ra 2
e- A ad
f- Cha ardar Paran
g- T ihai
h- Paran
i- Nag a
j- Kavita

T eenT ad .

2

- T eenT d a Matra -
a- T he a
b- B d T at ar
c- T haat
d- A ad
e- Cha ardarT ora
f- T ihai
g- Pre d a
h- Nag a

-

Dha arT ad .

- I T at ar
II T ihai

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- a- Knowledge of Folk Dance of Rajasthan practically
b- History of awari onT ad a
c- Gat Ni as of Ghungat and Mat i
d- All the practical work on Hand

B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM 2022 SYLLAB

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEMESTER 2022 SYLLAB

A

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEMESTER-EXAMINATION 2022

A

A

The aim of the paper is to introduce to the students various school styles and phases of the

For and Content Art and Religion Art and Society Tradition Modernity

- For and Content Art and Religion Art and Society Tradition Modernity

The students are expected to familiarize themselves with the art forms as seen from the books slides and related facilities to Museums exhibitions and art galleries are a part of study-

- Madhu dar R-C- editor-. *The History and Culture of Indian People* Vols-I II and III Culture and Painting sections of by- Bhartiya Vidya Bhawan Bombay 1999 -
- 2- Goswami B-N- Fischer E-. *Pahari Masters : Court Painters of Northern India* Museum Reitberg Zurich Switzerland and 1992
- Khandawala Kati : *Pahari Miniature Painting* The New Book Co-Pvt-Ltd- Bombay 199 -
- 2- Rowland and Bernard. *The Art and Architecture of India* Penguin Books Great Britain 199-
- Saraswati K-. *A Survey of Indian Sculpture* Munshiram Manoharlal Publishers Pvt- Ltd- New Delhi 199 -
- Ray N-R-. *An Approach to Indian Art* Publication Bureau Panjab University Chandigarh 199-
- Barrett D- and Gray B-. *Painting of India* The World Publishing Co- Ohio 199 -

10 A

10 A

The aim of the paper is to introduce to the students various schools styles and phases of the developments in painting and sculpture in India and the emphasis will be to make the students aware of the different terms concepts forms and subject matter of these works-

- Each paper carries marks-

2 The paper setter is required to set nine questions in which the candidate is to attempt five questions as per the instructions given in the question paper-

- The first question shall be of short answer type containing nine questions spread over the whole syllabus-Each ques

18

The students are expected to familiarize themselves with the art forms as seen from the books slides and related facilities- visits to Museums exhibitions and art galleries are a part of study-



- Ma u dar R-C- editor-. *The History and Culture of Indian People* Vols-I II and III Culture and Painting sections only- Bhartiya Vidya Bhawan Bombay 9 99 99 -
- 2- Goswami B-N- Fischer E-. *Pahari Masters : Court Painters of Northern India* Museum Reitberg Zurich witzel and 99 2-
- Khandwala Kailash : *Pahari Miniature Painting* The New Book Co-Pvt-Ltd- Bombay 9 -
- 3- Rowland and Beal in . *The Art and Architecture of India* Penguin Books Great Britain 9 9-
- Saraswati K-. *A Survey of Indian Sculpture* Munshiram Manoharlal Publishers Pvt-Ltd- New Delhi 9 -
- Ray N-R-. *An Approach to Indian Art* Publication Bureau Panjab University Chandigarh 9 3-
- Barrett D-and Gray B-. *Painting of India* The World Publishing Co- Ohio 9 -
- Archer G-. *India and Modern Art* George Allen and Unwin Limited London 9 9-
- 9- Aggarwala S-. *Heritage of Indian Art* Publications Division Ministry of Information Broadcasting Govt-of India New Delhi 9 -
- Aggarwala S-. *Indian Art* English- Varanasi 9 -
- Aggarwala S-. *Bhartiya Kala* Hindi- Prithvi Prakashan 9 -
- 2- Read Herbert . *Meaning of Art* Faber Faber London 9 2-
- Janson H-. *History of Art* Thames Hudson London 2 -
- 3- Gardner H-. *Art Through the Ages* Harcourt Brace Co- -A- 99 -
- Goebich E-H-. *The Story of Art* Phaidon Press Limited New York 99 -
- Arnason H-H-. *A History of Modern Art* Thames Hudson London 9 -



18

The students are expected to familiarize themselves with the art forms as seen from the books slides and related files-

- Archer -G

India and Modern Art George Allen
Lwin Limited London 1999

- Archer M- Archer -G

Indian Painting for the British
Oxford University Press London 1999

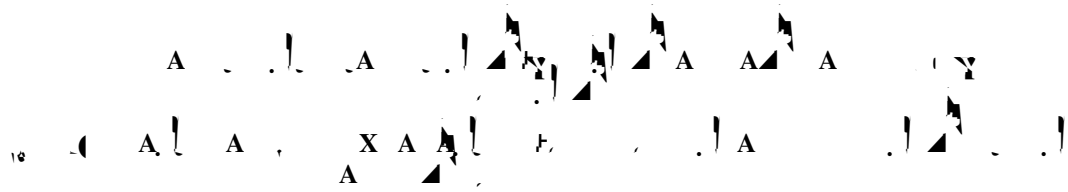
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B-A-B- C-GENERAL-

The students are expected to familiarize themselves with the art forms as seen from the books slides and related files-



- Janson H- - . History of Art Through the Ages Hudson London 2001 -
- Gardner Helen . Art Through the Ages Harcourt Brace & Co- - 1996 -
- Goebich E-H- . The History of Art Phaidon Press Limited New York 1999 -
- Arnason H-H- . A History of Modern Art Through the Ages Hudson London 1994 -
- Ray Nihar Ranjan . An Approach to Indian Art Publication Bureau Patna - Chandigarh 1974 -
- Aggarwal A - - . Heritage of Indian Art Publications Division Ministry of Information & Broadcasting Govt-of India New Delhi 1998 -
- Aggarwal A - - . Indian Art English Varanasi 1998 -
- Aggarwal A - - . Bhartiya Kala Hindi Prithvi Prakashan 1998 -
- Read Herbert . Meaning of Art Faber & Faber London 1992 -



Max-Marks : 90
Theory : 90 Marks
Internal Assessment : 10 Marks
Time : 3 Hours

The primary objective of this paper is to prepare the students to become professional archaeologists through the study of various excavated and explored archaeological sites, monuments and antiquities such as stone and bronze sculptures. The study of this paper is designed for preparing students to pursue advanced study in the subject.

It is expected to familiarize students with brief outline of the topics with the help of visual aids like slides and transparencies. Field work trips to museums and monuments are also suggested.

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1. The origin and development of writing in ancient India
 2. The evolution of the Brahmi script
 3. The evolution of the Kharosthi script
 4. The evolution of the Pali script
 5. The evolution of the Sanskrit script
 6. The evolution of the Devanagari script
 7. The evolution of the Grantha script
 8. The evolution of the Tamil script
 9. The evolution of the Telugu script
 10. The evolution of the Odia script
 11. The evolution of the Bengali script
 12. The evolution of the Assamese script
 13. The evolution of the Malayalam script
 14. The evolution of the Kannada script
 15. The evolution of the Gujarati script
 16. The evolution of the Marathi script
 17. The evolution of the Hindi script
 18. The evolution of the Urdu script
 19. The evolution of the Persian script
 20. The evolution of the Arabic script

18. The evolution of the Sinhala script
 19. The evolution of the Nepali script
 20. The evolution of the Tibetan script

Max-Marks	90
Theory	90
Internal Assessment	10
Time	3 Hours

This course makes the students aware of the origin and development of writing in ancient India upto 6th century A.D. It also provides knowledge about the origin, antiquity and main features of ancient Indian coins.

The students are to be taught with the help of slides, photographs and maps. In addition to it, special lectures, workshops, seminars, written assignments, class discussions and term papers should be included while teaching this course.

1. The origin and development of writing in ancient India
 2. The evolution of the Brahmi script
 3. The evolution of the Kharosthi script
 4. The evolution of the Pali script
 5. The evolution of the Sanskrit script
 6. The evolution of the Devanagari script
 7. The evolution of the Grantha script
 8. The evolution of the Tamil script
 9. The evolution of the Telugu script
 10. The evolution of the Odia script
 11. The evolution of the Bengali script
 12. The evolution of the Assamese script
 13. The evolution of the Malayalam script
 14. The evolution of the Kannada script
 15. The evolution of the Gujarati script
 16. The evolution of the Marathi script
 17. The evolution of the Hindi script
 18. The evolution of the Urdu script
 19. The evolution of the Persian script
 20. The evolution of the Arabic script

- The paper setter is required to set 9 questions in all - All questions shall carry equal marks -
- 2. The first question shall be short answer type containing 10 short questions spread over the entire syllabus - The candidate is required to answer any 9 short answer type questions - Each question shall be of 2

- There will be one theory paper of 40 marks. The internal assessment will be of 20 marks. The theory paper will have one compulsory short answer type question containing 10 questions of 2 marks each covering the entire syllabus. The candidates will be required to attempt any short answer type questions. In addition to it there will be four sections of the question paper containing 2 questions each. The candidate will be required to attempt one question from each of the four sections. Theory paper will be of three hours duration-

2. Practical examination will be compulsory for regular and correspondence students. It will be of 2 marks. There will be 4 hours of teaching per week for practical and the number of students in one group shall not ordinarily exceed fifteen-

10.

M-Marks
i.e. hours

11. This paper deals with the conceptual aspects of national security and the role of economic and military organizations in furthering national pursuits-

- National security. Definition and Concept-

2. Elements of National security. Geography Mineral Resources Economic stability Military preparedness Socio Political Factors Science and Technology-

- Collective security Arrangements. Security Role of UN in the modern context Role of NATO in the Post Cold war era-

12. Regional groupings. AARC ASEAN and BIMSTEC Aims and Objectives of the three Alliances to be discussed-

- Non Aligned Movement and National security. History Features Profits and Achievements-



10 10 10

- Abhyantar M-G- Defence Principles and Organisation - sha Publications Long ans
Michigan 9 -
- 2- Aditya Chibber National Security Doctrine - Lancasters International - New Delhi 99 -
-

There will be one theory paper of ... and the internal assessment will be of ... and the theory paper will have one compulsory short answer type question containing ... questions of ... marks each covering the entire syllabus. The candidates will be required to attempt any ... short answer type questions. In addition to it there will be four sections of the question paper containing ... questions each. The candidate will be required to attempt one question from each of the four sections. The theory paper will be of three hours duration.

2. Practical examination will be compulsory for regular and correspondence students. It will be of ... marks. There will be ... hours of teaching per week for practical and the number of students in one group shall not ordinarily exceed fifteen.

10

M-Marks
Time hours

This paper covers the various factors related to National security in India-

- India's security Problems since 1947.
 - a- Geopolitical effects of Partition. Boundaries and Frontiers-
 - b- Integration of states. J & K Junagarh Hyderabad and Goa-
 - c- An overview of India's security problems related to Pakistan and China-

2. Indian Ocean and India's Maritime security-
- Nuclear Policy of India. History Evolution and Policy options-

3. Internal Dimensions of India's National security with particular reference to Insurgency Terrorism and Low Intensity Conflict-

- Disaster Management in India and the role of Civil Defence-

- Economic Mobilization for National Defence-
- Planning and Production for National Defence with particular reference to India's Defence Production and DRDO-
- Higher Defence Organization in India



- Barnawal P- Military Year Book A Guide Publication New Delhi 2022
- 2. Chopra Mahanta K- India the search for Power. India and the Indian Ocean Laxmi Publication House Delhi 1999-
- Cohen Stephen P-The Indian Army Oxford University Press New Delhi 1999 -
- 3. Kaul Ravi India's strategic spectrum Chanya Publishing House Delhi 1999-
- Kavic L-J- India's Quest for security Cambridge University Press London 1999 -
- Klaus Knorr War Potential of the Nation Greenwood Press Northwestern University 1999-
- Khera R- India's Defence Profile Orient Longmans University of California 1999 -
- Kohli N- Sea Power in the Indian Ocean Tata McGraw Hill Delhi 1999 -
- 9. Misra R-N- Indian Ocean and India's security Mittal Publications Delhi 1999 -
- Patha K-K- Nuclear Policy of India Gitanjali Prakashan Delhi 1999 -
- Panigrahi K-M-
 - i-Defence Problems of India-
 - ii-India and the Indian Ocean GAllenwin Ltd- 1999 -
- 2. Rao P R Defence without Drift Popular Prakashan Delhi 1999 -
- Rao Raama i- Defence and security Radiant University of Michigan 1999-
- ii-Role of Defence Production Radiant University of Michigan 1999-
- 3. Singh Bhupinder Textbook of Defence studies Part III Punjab- B-C-Publishers Patiala 1999 -
- Singh Jasbir Defence Year Book 2022 Natra Publication Dehradun 2022 -
- Singh Jasjit Nuclear India Knowledge World Delhi 1999 -
- Singh Jaswant Defending Indian Hemisphere McMillan Basingstoke 1999 -
- Thomas Radu G-C-The Defence of India A Budgetary Perspectives- McMillan Delhi 1999 -
- 9. Subrahanya K-
 - i-Indian security Perspectives ABC Publishing House New Delhi 1999 2
 - ii-Planning for Defence-



Max-Marks 2
Time hrs

- There will be 4 hours of teaching per week for practical -For practical classes the number of students in one group shall not ordinarily exceed fifteen-
- 2. Practical exercise should be carried out on drawing sheets with explanatory notes or on computer-

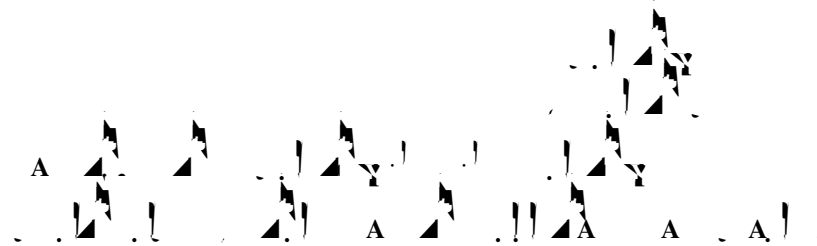
1

1.

- Growth of Political consciousness. Jallian walla bagh; Gurudwara Reform Movement
- Circumstances leading to partition-
- 9- Rehabilitation and resettlement

2.

- Punjab Reorganisation Act 1956
 - Agricultural development. Green Revolution; Land reforms
- 2



The syllabus has been divided into four units-

There shall be 9 questions in all - The first question is compulsory and shall be short answer type containing short questions spread over the whole syllabus to be answered in about 2 to 3 words each - The candidates are required to attempt any 9 short answer type questions carrying marks - 2 marks of each - Rest of the paper shall contain 2 units - Each unit shall have two essay type questions and the candidate shall be given internal choice of attempting one question from each unit I in all - Each question will carry marks -

- For private candidates who have not been assessed earlier for internal assessment the marks secured by them in theory paper will proportionately be increased to maximum marks of the paper in lieu of internal assessment -

2. One question from unit I shall be set on the map -

Explanation.

- Each essay type question would cover about one third or one half of a topic detailed in the syllabus -

2. The distribution of marks for the map question would be as under.

Map : Marks
 Explanatory Note : Marks

In case a paper setter chooses to set a question of map on important historical places the paper setter will be required to ask the students to mark places on map of 2 marks each and write explanatory note on any four of 2 marks each -

- The paper setter would avoid repetition between different types of question within one question paper -

10
 Max-Marks : 9
 Theory : 9
 Internal Assessment :
 Time : Hours
 To introduce the students to the modern period in world history -
 Lectures library work and discussions -

- The American Revolution: causes and consequences

2. The French Revolution causes and impact: Continental system of Napoleon

- Congress of Vienna : motives provisions significance

1.

The Industrial Era causes of origin new inventions

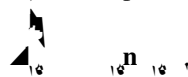
B-A-B-C-GENERAL-THIRD YEAR - EMEETER

Unit - A-

- i- The Constitutional framework of --
 - i- salient features
 - ii- separation of Powers Checks Balances
 - iii- Federal system | Meaning Features Tendency towards Centralisation and its future-
- ii- Executive
 - i- Functions of --President
 - ii- Composition Powers Position of --President-
- Legislature Congress
 - i- House of Representative | Composition Power House of Representative is the weakest chamber
 - ii- Senate Composition Powers Most Powerful second Chamber Mutual relations b/w House of Representative Senate
- Judiciary
 - i- Supreme Court | Organisation Composition Powers its Role-
 - ii- Power of Judicial review

Unit -

- i- Political Parties and Interest Pressure Groups of -K Nature Role-
- ii- Political Parties and Interest Pressure Groups of -A Nature Role-

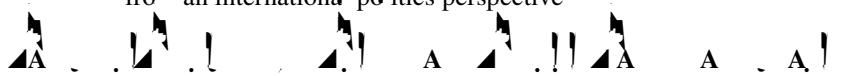


- Hague and Harrop *Comparative Government and Politics* Praeger New York 2 -
- 2- N-Khanna *Comparative Study of Government and Politics* - Chand and New Delhi 1999-
- Andrew Heywood *Politics* Macmillan Praeger New York 199 -
- 3- A-C-Kapoor *Select Constitutions* - Chand and Company New Delhi 199 -
- Ishnu Bhagwan *World Constitutions* Telang Publisher New Delhi 199 -
- and Vidya Bhushan
- J-C-Johari *Major Modern Political Systems* Vishal Publication Delhi 199 -
- J-C-Johari *Comparative Politics* Telang Publishers New Delhi 199 2-
- K-R-Bo bwal *Major Contemporary Constitutional Systems* Modern Publication Cantt 199 -
- A bala
- 9- Macintosh *The Government and Politics of Britain* Hutchinson and Company London 199 -
- Her an Finer *Theory and Practice of Modern Government* Thruen and Company London 199 -



Max-Marks : 90
Theory : 90
Internal Assessment : 10
Time : 3 hours

This paper provides students with an overview of the broad theories and concepts used to understand international politics-It also examines key issues in contemporary global history from an international politics perspective-



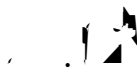
The syllabus has been divided into four units :

There shall be 10 questions in all the first question is compulsory and shall be short answer type containing 10 short questions spread over the whole syllabus to be answered in about 200 words each the candidates are required to attempt any 9 short answer type questions carrying 90 marks of each-Rest of the paper shall contain 37 units (996) of 1004-25-85-1-1(7)4



- H-Bull *The Anarchical Society : A Study of Order in World Politics*, London Macmillan 2002
- John Baylis and Steve Smith *The Globalisation of World Politics*, OUP Oxford 2003
- A-Roberts *The UN and International Security*, Survival 41- No- Spring 1999

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022
SYLLAB



Max-Marks	:	ar s
Theory	:	9 ar s
Internal Assessment	:	ar s

B-A-B- C-GENERAL-

A

Max-Marks	100	Marks
Theory	90	Marks
Internal Assessment	10	Marks
Time		Hours

The objective of the paper is to familiarize the students with the features and characteristics of the Indian Economy. It also includes performance and problems of Industrial development, Indian tax structure, external trade and balance of payments and objectives, strategy and performance of Indian planning. The course aims to develop analytical understanding of the students by exposing them to the basic issues of the Indian economy.

The syllabus has been divided into four units.

There shall be questions in all. The first question is and shall be short answer type containing short questions.

Unit - A

Max-Marks : 90
 Theory : 90
 Internal Assessment : 10
 Time : 3 Hours

i- For written paper the students will be required to attempt 10 questions in all - Question No- will be comprising of 2 short answer type questions of 2 marks each and will cover the entire syllabus - The students are required to attempt 10 short answer type questions out of 20 i.e. 2 marks -

In addition to it Question Nos-II to IX will consist of long answer essay type- questions two questions from each unit with internal choice carrying 10 marks each i.e. 20 marks -

ii- On an average 3 hours are to be devoted to each unit-

iii- For private candidates who have not been assessed earlier for internal assessment the marks secured by the in theory paper will proportionately be increased to maximum marks of the paper in lieu of internal assessment-

Unit - A

Unit - A

The objective of this paper is to present a comprehensive view of Indian society - The students are exposed to the tribal rural and urban societies and are presented with the social structure and social institutions to understand these segments of Indian society - Through this paper the students are also introduced to the problems of the underprivileged in Indian society -

Unit - A

Unit - A

Tribal Society: Meaning Characteristics: Classification of tribes-

Institutional Features: Family Marriage Economy and Changing trends-

Unit - A

Rural Society: Meaning Characteristics-

B-A-B-C-GENERAL-THIRD YEAR EME T ER

Max-Marks	90
Theory	90
Internal Assessment	90
Time	Hours

i- For written paper the students will be required to attempt 10 questions in all-Question No- will be comprising of 2 short answer type questions of 2 marks each and will cover the entire syllabus-The students are required to attempt 10 short answer type questions out of 2 i.e- 9 2 marks-

In addition to it Question Nos-II to IX will consist of long answer essay type-questions two questions from each unit with internal choice carrying marks each i.e- 2 marks-

ii- On an average hours are to be devoted to each unit-

iii- For private candidates who have not been assessed earlier for internal assessment the marks secured by the in theory paper will proportionately be increased to maximum marks of the paper in lieu of internal assessment-

This paper exposes the students to social disorganization its levels and current problems-It helps students to understand social realities and also equips them to utilize their knowledge in various theoretical and practical exercises-

10 marks

10

Social Disorganization : Concepts and Levels Personal Family and societal-

10

Personal Problems: Problems of Adolescence, Alcoholism, Drug Addiction, suicide-

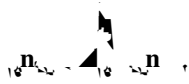
10

Familial Problems: Domestic violence, violence against Children, Female Headed Households, Problems of aging women-

10

Societal Problems : Poverty, Corruption, Problems of the Aged, Cyber Crime

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 YLLAB



A
A
A
A
A
A
A
A

Max-Marks
Theory 9 Marks
Internal assessment Marks

Unit -

State Control over Local Bodies
State Finance Commission. Composition Functions and Role
Provincialisation of Municipal Services
Rural-Urban Relationship Challenges and Remedies

Unit -

God-L-Ra-esh - 2 --Panchayati81(t)0.89126(i)0.89126(81(t)0.89126(i)0.89113-(i)0.89126(81(t)489 535i94 52333 0 0

A	A	A	A	A
			Max-Marks	A
			Theory	90 Marks
			Internal assessment	Marks
			Time	Hours

The objective of the paper is to give the student an in depth understanding about the concept significance of development administration features of developed & developing countries planning machinery at Central level and the emergence of India as a welfare state. The paper would also give an understanding about the concept for structure and problems of public enterprises as well as the working of selection Ministries and agencies in welfare and Development Administration-

For Private University mode of Open Learning (OL)-students who have not been assessed earlier for the internal assessment the marks secured by the in the paper will proportionately be increased in lieu of the internal assessment-

The candidate shall attempt questions in all one compulsory and one each from four units-The first compulsory question shall comprise of 2 short answer type questions covering the whole syllabus to be answered in 200 words each out of which the candidate would be required to attempt any 9- Each question will carry 20 marks-

Answer any two questions out of the following. Each question carries 10 marks. Total marks 20.

Maximum Marks : 20
Theory : 9
Internal Assessment : 11
Time : 2 Hours
Lectures : 12

Answer any two questions out of the following. Each question carries 10 marks. Total marks 20.
This paper discusses the main epistemological and metaphysical issues as discussed in the various Indian Philosophical systems-

1. Discuss the main epistemological issues in Indian Philosophy.
2. Discuss the main metaphysical issues in Indian Philosophy.
3. Discuss the main epistemological issues in Indian Philosophy.
4. Discuss the main metaphysical issues in Indian Philosophy.

Nyaya

- a Nyaya theory of Causation- at aryavada-
- aisesi a . Nature and kinds of Padartha Categories-
- i his . Nature of Ultimate Reality Mand and the world-



Chatterjee -C- Datta D-M- 1999 - An Introduction to Indian Philosophy Calcutta University
Calcutta University

Hiriyanna M- 1999- Outlines of Indian Philosophy London Allen and Unwin London 1999-
Hindi Translation Available-

Trar a 1992 a graha of Anna bhatta Poona Bhandar ar Oriental Research Institute-



Ananiana 1999 - A Nyaya Manual Ed- Sri-Krishna ar a Chennai . Adyar Library and Research

Chatterjee -C- 1999 -The Nyaya Theory of Knowledge Calcutta University of Calcutta

Panchapagesha astri 1999-The Philosophy of Aesthetic Pleasure Anna Bai University-

B-A-B-C-GENERAL-THIRD YEAR EME T ER Y T EM- 2 9 2 2 YLLAB

QUESTION

- Universal and Particulars . Concept of Being Parthenides-and Becoming Heradites--
- Substance Pinoza-Causality Hu e--
- Existentialis . Being in itself; Being for itself; Choice and Freedom --



Ewing A-C- 999- Fundamental Questions of Philosophy London . Routledge Kegan Paul
Titus H-H- 999-Living Issues in Philosophy New Delhi . Eurasia Pub-House 2th ed- Prentice
Hall Pub-

Macquire John 9 2- Existentialis New York . Philosophical Library



Ayer A-J- 2 2- Twentieth Century Philosophy Harmondsworth Penguin Books

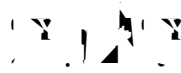
Ayer A-J- 9 9-Language Truth and Logic Dover Publications Soft Cover I BN 2

Korner Stephen 2 2-Fundamental Questions of Philosophy Penguin- Harmondsworth

Y A A

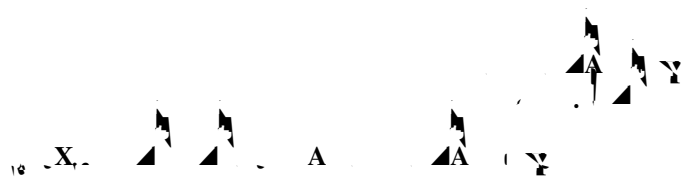
Max-Mars 2
Time Hours-

- The use of Biofeedback -
- 2 Presumptive stressful Life Event scale-



→

- I- This course will enable the students to get an introductory knowledge about Clinical psychology with emphasis on the dynamics of some of the behavioural disorders and therapies- students will also have some knowledge about stress and coping



Max-Marks :
 Theory :
 Internal Assessment :
 Time : Hours

To provide an understanding of the concept of world regions with respect to Land People Polity and Economy; the physical and human resource base and their interface with economic development; development problems and prospects—

Study of the following regions of the world in terms of constituent countries, strategic location, salient physical, demographic and economic features, cultural patterns, resource base, economic development, problems, prospects and issues related to Regional Groupings: European Union, North Atlantic Treaty Organization, North American Free Trade Agreement and Commonwealth of Independent States—

- i- Anglo America 2 lectures-
- ii- Latin America 2 lectures-
- iii- Europe 2 lectures-
- iv- Russia Commonwealth of Independent States 1 lectures-
- v- Oceania

For OL reappear i prove ent candidate s- who have not been assessed earier for Internā Assess ent the question paper s- in their case shall be of Maxi u Mar s āotted to the paper s- concerned-

1	Baerwald T -J-and C-fraser	. <i>World Geography: A Global Perspective</i> -Prentis Hall New Jersey 99 -
2	B Har J-de Peter O-Mull er	. <i>Geography : Regions and Concepts</i> , John Wiley New Yor 99 -
	- Cairns G-O-et-d -	. <i>Australia</i> . Macmillan Co. New Yor 9 2
3	Coysh A- -and M-E-T o linson	. <i>The Southern Continents</i> . niversity T utoria Press London 9 -
	- Eng ish Paul ard Ja es A-Mill er	. <i>World Regional Geography: A Question of Place</i> , John Wiley New Yor 9 9-
	- Gilbert Alan	. <i>Latin American Development: A Geographical Perspective</i> .

X, A

Time: hours

Distribution of Marks

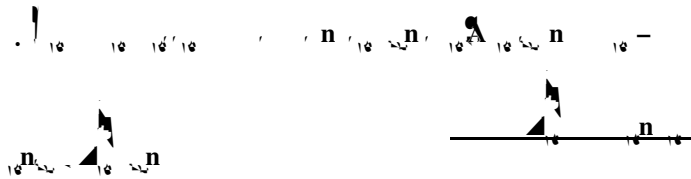
- i- Written paper of three hours covering entire syllabus shall be held for students of OL-2 marks. For others it shall be at respective colleges-
- ii- Practical Record relating to Map Projections and viva voce on Practical Record relating to Map Projections-
- To provide an analytical understanding of use of conic map projections-

Map Projections.
 General introduction Classification of projections general principles of identification and choice of projections-
 Lectures-

Construction properties and limitations of following projections
 Cylindrical Equal area Mercator s
 Lectures Lab-sessions-

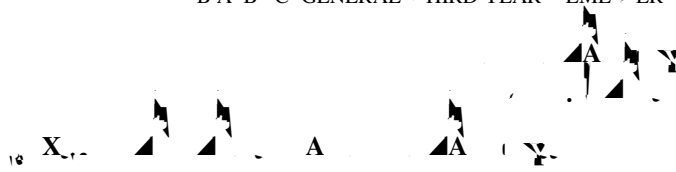
Construction properties and limitations of following projections
 Conical One standard Parallel Two standard Parallel Bonne's Polyconic
 Lectures Lab-sessions-

- For the students of B.A. POL there will be an internal assessment of the course in lieu of the viva voce examination in practical record and field report-The marks obtained by the candidate will be added to the marks awarded by the internal and external examiners evaluating the Practical Record-
- A fresh practical note book shall be prepared by failed improver candidates-
- For Practical classes the number of students in one group shall not exceed fifteen-
- There will be 4 hours of teaching per week for this paper-
- 9- For B.A. POL reappear improver candidates who have not been assessed earlier for Internal Assessment the question papers in their case shall be of Maximum Marks allotted to the paper concerned-



- Kistner George P- *Map Projections* Methuen and Co- London- Year 1922
- Kistner J-A- *Map Projections* University of London Press London 1922 Year -
- Garnett William *Map Projections*, George Philip and Sons London-
- Singh R-L *Mapwork and Practical Geography* Central Book Depot Allahabad 1999 Reprint-
- Singh Raghunandan

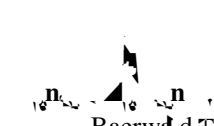
Basic fundamentals of map projections are introduced by demonstration of construction exercises in class-



Max-Marks /
 Theory /
 Internal Assessment /
 Time / Hours

To provide an understanding of the concept of world regions with respect to Land, People, Poverty and Economy; the physical and human resource base and their interface with economic development; development problems and prospects-

Study of the following regions of the world in terms of constituent countries, strategic location and



Baerwaldt J and C-fraser



World Geography: A Global Perspective. Prentis Hall New

B-A-B-C-GENERAL-THIRD YEAR EME T ER Y T EM- 2 9 2 2 YLLAB

B-A-B- C-GENERAL-THIRD YEAR SEMESTER V SEM- 2022 SYLLAB

-	Jones P-A-	.	<i>Fieldwork in Geography</i> Long an London 9 -
2	Archer J-E- Dutton T-H-	.	<i>Fieldwork in Geography</i> , E.F. Bastford Ltd- London 9 -
-	Singh Gopal	.	<i>Mapwork and Practical Geography</i> Hurst Book Depot Delhi 99 -
-	Hudson F- -	.	<i>A Geography of Settlements</i> MacDonal d London 9 -
2	Singh L-R- Singh Raghunandan	.	<i>Mapwork and Practical Geography</i> Central Book Depot Allahabad 99 Reprint-

The students need to be trained to collect primary data its processing and cartographic representation through taking up field exercises-

The paper is designed to acquaint the students with the Economic Thought of Mahatma Gandhi-

9 % Lectures including expert lectures-
% nit tests nap tests assignments attendance and class room participation

- Note.
- The syllabus has been divided into four units-
 - There shall be 9 questions in all -
 - The first question is compulsory and shall be short answer type containing short answer type questions spread over the whole syllabus and each to be answered in about 2 to 3 words-The candidate is required to attempt any 9 short answer type questions carrying marks i.e. 2 marks of each-It shall carry marks and shall be



- Biswas -C-ed- . *Gandhi: Theory and Practice, Social Impact and Contemporary Relevance* Delhi. Indian Institute of Advanced Studies- 9 pp- 31 -
- 2- Dasgupta Arit K- . *Gandhi's Economic Thought* London. Routledge- 99 -
- Diwan Ro esh Lutz . *Essays in Gandhian Economics* Delhi. Gandhi Peace Foundation- 9 -
- 2- Ku arappa J-C- . *Gandhian Economic Thought* aranasi. arva eva

A A

n n n

n n A n

The paper is designed to acquaint the students with the understanding of the concept of Peace and different methods of Conflict Resolution

90% Lectures including expert lectures-
10% tests assignments attendance and class room participation

- The syllabus has been divided into four units-
- 2 - There shall be 9 questions in all -
- The first question is compulsory and shall be short answer type containing short answer type questions spread over the whole syllabus and each to be answered in about 2 to 3 words-The candidate is required to attempt any 9 short answer type questions carrying marks of each-It shall carry marks and shall be compulsory question-
- 2 - Rest of the paper shall contain four units and each unit shall have two questions and the candidates shall be given internal choice i.e-the candidates shall attempt one question from each unit in all-All questions shall carry marks-
- For the private candidates who have not been assessed earlier for internal assessment the marks secured by the in theory paper will proportionately be increased to maximum marks of the paper in lieu of internal assessment-

n n n n

- Meaning basic components of Peace
- 2 - Approaches to Peace
- Obstacles to Peace
- 2 - Gandhi's approach to Peace
- social Movements Environment and NGOs
- 2 - Civil Rights movements in states
- Concept of Conflict
- 2 -



- Barash David P- . *Approaches to Peace: A Reader in Peace Studies* New York .
Oxford University Press- 2 -
- 2. Broc Peter . *Mahatma Gandhi & Mother India, Essay on Gandhi's*

6

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 SYLLAB

...

- Culpable Homicide section 299- Murder section 300 -
- Causing death by rash and negligent act section 304A-
- Dowry Death section 304B-
- Hurt section 301- Grievous Hurt section 302 -
- Wrongful Restraint and Wrongful Confinement sections 305 & 306 -
- Assault section 307 -
- Sexual Harassment sections 354A 354B 354C 354D-
- Kidnapping and Abduction sections 369 370
- Rape sections 375 A to D-

...

- Bailable and non bailable offence;
- Cognizable and non cognizable offence;
- Compoundable offences;
- Warrant Case;
- Summary Case;

- Lodging of First Information Report section 157- Effects of Refusal to lodge FIR
- Police investigation
- Arrest section 41 - Rights of Arrested Persons

B-A-B-C-GENERAL-THIRD YEAR EME T ER Y T EM- 2 9 2 2 YLLAB

Ahoda Patil Krishna ... Ashish Publishing House New Delhi 1999 -

... Hanning Commission New Delhi-

Gupte Mahantia ... Anand Pub New Delhi 2002 -

Mathu Anuradha ed- ... Kalyan Pub Delhi 2002 -

... Mahbub ul Haq Human Development Centre-
1999 2002 -

Heyzer Nadeem and Gita ed- ... Kalyan New Delhi 1999 -

Jain Deva ... Monograph I New Delhi 1999 -

Krishanand Maitreyi ... Subhada Publishers-

Rajput Parwarup Heblata ed- ... Ashish Pub-House New Delhi 1999 -

Reddy Narayana ...

B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM- 2022 SYLLAB

A	A	A	A	A	A	A	A	A	A
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Max-Marks	Marks
Theory	9
Internal Assessment	Marks
Time	Hours

The paper deals with a few select problems that have been addressed internationally through the N

B-A-B-C-GENERAL-THIRD YEAR EMETTER YTEM-2 9 2 2 YLLAB

Max-Marks
Written 90 Marks
Internal 10 Marks

The course is designed for the students who want to pursue semester based graduate degree programme with religious studies as an elective subject. It is open to any student drawn from multiple disciplinary backgrounds after completion of 1st course. As one of the elective subject at the graduate level curriculum it purports to develop a broad understanding of Indian Religions and awareness about the origin, features and purpose of different religions.

Note: i- For written paper the students will be required to attempt five questions in all. Question No- I will be compulsory comprising of 2 short answer type questions of 20 marks each and will cover the entire syllabus. The students are required to attempt nine answer type questions out of twelve. Question No- would carry 10 marks. In addition to it Question No-II to IX will consist of 10 long answer Essay type questions which will be further divided into four units with each unit having 2 questions.

- Jones K. M. – *Arya Dharm*, Delhi. Manohar 1999–
- Lavan Pencer – *The Ahmadiyah Movement: A History and Perspective*, Delhi. Manohar 1999–
- Radice R. – *Swami Vivekananda and the Modernisation of Hinduism*, Delhi. O.P. 1999–
- Jones K. M. – *Socio Religious Reform Movements in British India*, New Cambridge History Delhi. Foundation Books Delhi 1999–
- Sen P. – *Social and Religious Reform Movement in the 19th & 20th Century*, Calcutta. 1999–
- Banga Indu – *Five Punjabi Centuries: Polity, Economy, Society and Culture, c.1500-1900*, New Delhi. Manohar 1999–
- Khan Muhammad – *Sir Syed Ahmad Khan: A Political Biography*, Meenashi Prakashan–

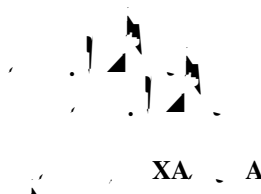
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B-A-B-C-GENERAL-THIRD YEAR - EME T ER

Project Direction Communications in a Project Project Coordination Project Control Scope Progress Control
Performance Control Schedule Control and Cost Control-

Performance Indicators Performance Improvement Project Management Environment-

Characteristics of Reports Importance of Reports



X A A

10	A	10	10	6	6
10	n	10	10	6	6
10					

Internet marketing techniques and cycles Attracting and tracking customers Pros and cons of online marketing-

Types of firewall Gateways Proxy servers and its advantages and disadvantages; Transaction security. Types of transaction Require ents for transaction Encryption. asymmetric and symmetric encryption; Digital signatures Digital certificates IPsec and management issues-

1. Kalakota Ravi & Andrew B. Whinston, 1997 : Electronic Commerce, Addison Wesley Longman.
2. Elias (A. Awad, '98) : Electronic Commerce: A Vision to the Future, McGraw-Hill.
3. & /. 012E&, 2.0, '13 : E4 1 ((ER E, 5th Edition: A6 -67-A6 &ER2&E /-8E, &, -.
4. & Kenneth , andon, aral \$%ercio /raver, '1) : E4 o! ! erce ; B%siness /echnolo"< societ<, &earson Ed%cation.

Objectives: This course will enable the student to build and publish web sites using HTML, CSS, JavaScript and PHP.

- Note:
- i- The syllabus of this paper has been divided into four units-
 - ii- Examiner will set total nine questions comprising

B-A-B- C-GENERAL- H

Sl. No.	Topic	Hours
1	Introduction to Surveying	10
2	Levelling	10
3	Traverse	10
4	Plane Table Surveying	10
5	Photogrammetry	10
6	Map Reading	10
7	Field Book	10
8	Surveying Instruments	10
9	Surveying Methods	10
10	Surveying Errors	10
11	Surveying Accuracy	10
12	Surveying Precision	10
13	Surveying Reliability	10
14	Surveying Validity	10
15	Surveying Objectivity	10
16	Surveying Fairness	10
17	Surveying Impartiality	10
18	Surveying Integrity	10
19	Surveying Honesty	10
20	Surveying Transparency	10
21	Surveying Accountability	10
22	Surveying Responsibility	10
23	Surveying Ethics	10
24	Surveying Professionalism	10
25	Surveying Communication	10
26	Surveying Teamwork	10
27	Surveying Leadership	10
28	Surveying Innovation	10
29	Surveying Creativity	10
30	Surveying Problem Solving	10
31	Surveying Decision Making	10
32	Surveying Risk Management	10
33	Surveying Quality Management	10
34	Surveying Safety Management	10
35	Surveying Environmental Management	10
36	Surveying Social Management	10
37	Surveying Cultural Management	10
38	Surveying Economic Management	10
39	Surveying Political Management	10
40	Surveying Legal Management	10
41	Surveying Health Management	10
42	Surveying Education Management	10
43	Surveying Research Management	10
44	Surveying Development Management	10
45	Surveying Innovation Management	10
46	Surveying Entrepreneurship Management	10
47	Surveying Leadership Management	10
48	Surveying Teamwork Management	10
49	Surveying Communication Management	10
50	Surveying Problem Solving Management	10
51	Surveying Decision Making Management	10
52	Surveying Risk Management Management	10
53	Surveying Quality Management Management	10
54	Surveying Safety Management Management	10
55	Surveying Environmental Management Management	10
56	Surveying Social Management Management	10
57	Surveying Cultural Management Management	10
58	Surveying Economic Management Management	10
59	Surveying Political Management Management	10
60	Surveying Legal Management Management	10
61	Surveying Health Management Management	10
62	Surveying Education Management Management	10
63	Surveying Research Management Management	10
64	Surveying Development Management Management	10
65	Surveying Innovation Management Management	10
66	Surveying Entrepreneurship Management Management	10
67	Surveying Leadership Management Management	10
68	Surveying Teamwork Management Management	10
69	Surveying Communication Management Management	10
70	Surveying Problem Solving Management Management	10
71	Surveying Decision Making Management Management	10
72	Surveying Risk Management Management Management	10
73	Surveying Quality Management Management Management	10
74	Surveying Safety Management Management Management	10
75	Surveying Environmental Management Management Management	10
76	Surveying Social Management Management Management	10
77	Surveying Cultural Management Management Management	10
78	Surveying Economic Management Management Management	10
79	Surveying Political Management Management Management	10
80	Surveying Legal Management Management Management	10
81	Surveying Health Management Management Management	10
82	Surveying Education Management Management Management	10
83	Surveying Research Management Management Management	10
84	Surveying Development Management Management Management	10
85	Surveying Innovation Management Management Management	10
86	Surveying Entrepreneurship Management Management Management	10
87	Surveying Leadership Management Management Management	10
88	Surveying Teamwork Management Management Management	10
89	Surveying Communication Management Management Management	10
90	Surveying Problem Solving Management Management Management	10
91	Surveying Decision Making Management Management Management	10
92	Surveying Risk Management Management Management Management	10
93	Surveying Quality Management Management Management Management	10
94	Surveying Safety Management Management Management Management	10
95	Surveying Environmental Management Management Management Management	10
96	Surveying Social Management Management Management Management	10
97	Surveying Cultural Management Management Management Management	10
98	Surveying Economic Management Management Management Management	10
99	Surveying Political Management Management Management Management	10
100	Surveying Legal Management Management Management Management	10

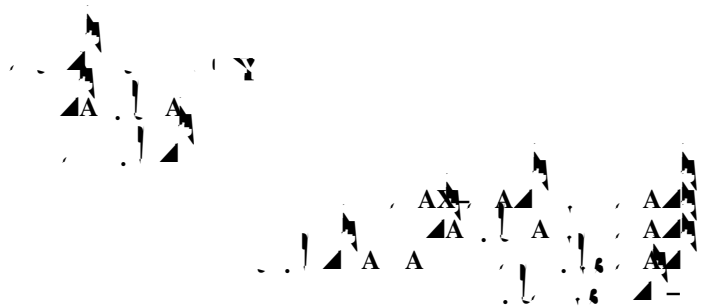
The number of hours for theory and Practical per week shall be 10 hours and 2 hours respectively-
The practical will include survey and its project r

Public Mass awareness programmes in different villages and their reports-
survey report on different diseases based theory-
visit to a dam to study its construction and working-

1. Introduction to the course	hrs	10
2. The structure of the course	hrs	10
3. The objectives of the course	hrs	10
4. The syllabus of the course	hrs	10
5. The assessment of the course	hrs	10
6. The final examination	hrs	10

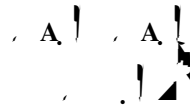
One Practical examination pertaining to the entire

- Jay J-M- Loessher M-J- Golden D-A- 2012 - *Modern Food Microbiology* Edition - Illustrated Publishers Springer-
- Potter N-N- Hotchiss J-H- 1999 - *Food Science* CB Publishers-
- Adams M-R- Moss M-O- 2012 - *Food Microbiology*, Edition - Illustrated Publishers Royal Society of Chemistry-
- Montville T-J- Matthews K-R- 2012 - *Food Microbiology, An Introduction* ASM Press Washington D-C-
- 9- Prescott - Dunn C-G- 1997 - *Industrial Microbiology* Mc Graw Hill New York CB Publishers and Distributors-
- Casida 1999 - *Industrial Microbiology* N-Y- Wiley-



- Identification of both Gram positive and Gram negative bacteria on the basis of:
 - i- Morphology
 - ii- Biochemical characteristics
 - iii- Serological reactions
- 2- Demonstration of pathogens (viruses, fungi, parasites) in permanent mounted slides
- Demonstration of cysts/ova of Protozoa (Helminths)
- 3- Demonstration of Laboratory grown fungi on Sabouraud's agar
 - Germ tube test for *Candida albicans*

Note: The question paper will consist of four sections



10-11 A A 1 2



- Note:**
- The syllabus has been split into two units. Unit I and Unit II- Four questions will be set from each unit-
 - 2. A student will be asked to attempt five questions selecting at least two questions from each unit- Each question will carry marks-
 - The teaching time shall be five periods of 45 minutes each-per paper per week including tutorial-
 - 3- If internal assessment is to be conducted in the form of written examinations then there will be only one written examination in a semester-

Unit I

1. Limits and Continuity
 2. Differentiation
 3. Integration
 4. Applications of Integration
 5. Vector Calculus

Unit II

1. Proper integrals and their convergence Comparison tests Absolute and conditional convergence Abels and Dirichlet's tests Frullani's integral
 2. Integral as a function of a parameter-Continuity, derivability and integrability of an integral of a function of a parameter-

3. Improper integrals
 4. Gamma function
 5. Beta function

- Note:**
- The syllabus has been split into two units: unit I and unit II- Four questions will be set from each unit-
 - 2. A student will be asked to attempt five questions selecting at least two questions from each unit- Each question will carry marks-
 - The teaching time shall be five periods 45 minutes each-per paper per week including tutorial-
 - 3. If internal assessment is to be conducted in the form of written examinations then there will be only one written examination in a semester-

UNIT I

Groups subgroups Lagrange's theorem Normal subgroups and Quotient Groups Homomorphisms Isomorphisms Theorems Conjugate elements Class equation Permutation Groups Alternating groups simplicity of A_n $n \geq 5$ without proof-

UNIT II

Rings Integral domains subrings and Ideals Characteristic of a ring Quotient Rings Prime and Maximal Ideals Homomorphisms Isomorphism Theorems Polynomial rings-



- Singh and Q-Zaheerudin *Modern Algebra* 3rd Edition New Delhi-
- 2. I-N-Herstein *Topics in Algebra* Wiley Eastern Ltd- New Delhi-
- J-A-Gallian *Contemporary Abstract Algebra* Narosa Publication House New Delhi-
- 3. M-Artin *Algebra* Prentice Hall of India New Delhi 1991-

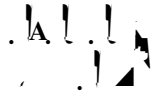
- P-K Jain and K-Kaushi : An Introduction to Real Analysis -Chand Co- New Delhi 2002 -
- C-Maji and avita Arora : Mathematical Analysis 2nd edition New Age International Publishers-
- G-B Thomas and R-L-Finney : Calculus and Analytic Geometry Ninth edition- Pearson Publication-
- D- Josundara and B-Choudhary : A First Course in Mathematical Analysis Narosa Publishing House New Delhi 1999 -

- Note:**
- The syllabus has been split into two units. Unit I and Unit II- Four questions will be set from each unit-
 - A student will be asked to attempt five questions selecting at least two questions from each unit- Each question will carry marks-
 - The teaching time shall be five periods 45 minutes each-per paper per week including tutorial-
 - If internal assessment is to be conducted in the 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th months-

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 SYLLAB

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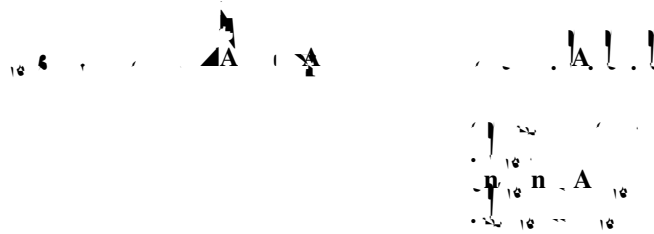
Note: - The syllabus has been split into two units. nit



- A candidate shall offer this subject in B-A-B- c-only if he/she takes up Mathematics as a subject in B-A-B- c-
- 2 A candidate shall offer these subjects in B-A-B- c-Third year only if he/she had taken up the corresponding subject in B-A- B- c First and second years-

There are two papers with codes and 2 in the subject of statistics in B-A-B- c- semester - These are to be taught simultaneously throughout the semester-

- * For theory lectures of 45 minutes each-per week and for practical lectures of 45 minutes each-per week amounting to 4 lectures per week for theory and practical shall be allotted for the teaching-



The objective of this course is to acquaint students with the basic concepts of Microeconomic theory and the analysis of statistical concepts used in the context of economic set up- They will also be exposed to the basic concepts in Demography-

- There will be in all nine questions all of equal marks- The first question is and will be of short answer type covering the entire syllabus- Out of the remaining eight questions four questions will be set from each unit- The candidate will be required to attempt five questions in all including the compulsory first question and two questions from each unit-
- 2. i. pre non-programable calculator is allowed-
- statistical tables and log tables will be provided on request-

sources of demographic data census vital statistical registers adhoc surveys and hospital records- Measurement of mortality crude death rate specific death rates standardized death rate infant mortality rate and cause of death rate coxeter life table and its description- Measurement of fertility crude birth rate general fertility rate total fertility rate gross reproduction rate and net reproduction rate-

Economic time series its different components illustrations additive and multiplicative models determination of trend growth curves exponential and modified exponential - analysis of seasonal fluctuations construction of seasonal indices-

UNIT -II

Index numbers definition Methods to construct price quantity and value index numbers- Professions involved in the construction of index numbers use of averages simple aggregative and weighted average methods-Laspeyres Paasche's Edgeworth Marshall and Fisher's index numbers-Time and factor reversal tests of index numbers-Chain Base index numbers Cost of living index number interpretation and applications of index numbers-

elastic laws of demand and supply price elasticity of demand and Pareto distribution Log normal distribution and their

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 SYLLAB

A

This course shall not be opted for along with courses in B-A-B-C-Mathematics and or B-A-B-C-Statistics-

The candidate opting for this course will not be eligible for admission to M-A-M-C-Statistics-

There is one paper with code A in the subject of Applied Statistics in B-A-B-C-semester

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 YLLAB

A
X

Quality Control: Construction use and interpretation of control charts for mean range fraction defective and number of defects- single sampling inspection plans-Concepts of producer's and consumer's risks O-C-and A-O-Q-Curves-

Vital Statistics: Rates and ratios crude death rate age specific death rate infant mortality rates standardized death rates direct and indirect methods-Measurement of fertility crude birth rate general specific and total fertility rates-Standardized birth rates-Calendar Year rates-

-Goon A-M- Gupta M-K-and
Das Gupta B- 2 -

Fundamentals of statistics -II
Ch- 9- only the relevant portion from these chapters
as suggested in the syllabus-

2-Daniel - - and Cross CL- 2 - . Biostatistics A foundation for analysis in the health sciences

There will be three papers of theory and one laboratory practical course. Each of the theory papers is allocated 2 marks including three marks for the Internal assessment.

The number of lectures per week will be three for each theory paper and six for practicals.

The examination time for each theory paper will be three hours and it will be four hours for practicals.

Each theory paper will consist of 100 questions comprising of three sections. First two sections will comprise of 100 questions for each of units I and II of syllabus and the third section will comprise of 100 questions of short answer type parts covering whole syllabus. The question paper will be set for 200 marks. A student will attempt two questions from each of the first two sections and any eight parts of the compulsory

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 YLLAB

12

Concepts of current and voltage sources Thevenin's theorem Norton's theorem source conversion-
CRO Block diagram construction and principle of working use of CRO for frequency time period
special features of dual trace phase measurements-

Energy band diagrams in semiconductors Direct and indirect semiconductors For use to calculate Position of
Fermi level in p and n semiconductors Barrier formation energy band diagram of p-n junction For use for
Depletion width Qualitative ideas of current flow mechanism in forward and reverse biased diode v-i
characteristics static and dynamic resistance Depletion and diffusion capacitance zener diode LED photodiode
and solar cell-

Book Book -

Diode circuits Clipping circuits Rectification half wave full wave and bridge rectifiers filter circuits C LC
and π filters- rectification efficiency and ripple factor in LC filter voltage regulation circuit using zener diode
voltage divider circuits-

Bipolar Junction transistors structure and working different currents in transistor switching action-
Characteristics of CB CE and CC configurations Active cutoff and saturation regions-
Load line analysis of transistors Q point Transistor biasing and stabilization of operating point fixed bias
collector to base bias bias circuit with emitter resistor voltage divider biasing circuit-

working analysis of CE amplifier using h parameters current voltage and power gain input and output
impedance-Class A B and C amplifiers-

Book Book 2

Essential Readings :

1. Electronic Devices and Circuit Theory 4th Ed- R-Boydstad L-Nashd's y Prentice Hall Inc-
2. Electronic Principles, A.P. Malvino and D-J- 2nd ed- 2nd 2nd 2nd 2nd 229 B- 9 - n- - 24 c

General properties of Nuclei. Constituents of nucleus and their intrinsic properties. Quantitative facts about nuclear size, mass, density, binding energy and its variation with mass number. Average mechanical properties of nucleus: angular momentum, parity, magnetic moment and electric moments of the nucleus—properties of nuclear forces and saturation. Meson theory of nuclear forces.

Nuclear Models. Liquid drop model. Semi-empirical mass formula. Most stable isobar—

Evidence for nuclear shell structure. Nuclear shell model. Concept of magic numbers—

Radioactive decay. Units of radioactivity: Ci and Bq—successive disintegration. Natural radioactivity. Radioactive series. Carbon dating—

Alpha decay. Energetic alpha spectrum. Gamow's theory of alpha decay. Geiger-Nuttall rule—

Beta decay. Quantitative discussion of beta spectrum. Evidence of existence of Neutrino. Conservation of nuclear energy in Beta minus, Beta plus and Electron capture decays—

Gamma ray emission. Selection rules. Internal conversion—

Nuclear Reactions. Types. Concept of compound nucleus and direct pickup and stripping—reactions. Reaction differential and integral cross sections. Units, conservation laws and kinematics. Q value equation. Coulomb Rutherford-scattering cross section and distance of nearest approach—

Energy classification of neutrons. Nuclear fission in reactors. Reactor facilities available in India. Nuclear fusion

- i- Measurement of reverse saturation current in p-n junction diode at various temperatures and to find the approximate value of energy gap-
- ii- To draw forward and reverse bias characteristics of a p-n junction diode and draw a load line-
- iii- Study of a diode as a clipping element-
- iv-

structure and working of JFET characteristics drain and transconductance curve FET amplifier and its voltage gain structure and working of MOSFET -

Interaction of nuclear radiation with matter. Energy loss due to ionization Bethe Bloch for α - Range and

Scheme of Teaching and Examination

<i>Paper</i>	<i>Course</i>	<i>Teaching Hrs.</i>	<i>Max. Marks</i>
X II	Inorganic Chemistry A	periods per week	72 internal assessment
X III	Organic Chemistry A	periods per week	72 internal assessment
XIX	Physical Chemistry A	periods per week	72 internal assessment
XX	Laboratory Practicals	periods per week	72 internal assessment
<i>Total</i>		<i>15 periods/week</i>	<i>100</i>

Scheme of Teaching and Examination

Total 1 i

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 SYLLAB



che e of Teaching and Examination

Essential and trace elements in biological processes - metalloporphyrins with special reference to haemoglobin and myoglobin-
Biological role of iron and cobalt in earth - metallo ions-Nitrogen fixation-

 n n n n

- i. Examiner will set total of NINE questions comprising TWO questions from each unit and ONE compulsory question of short answer type covering whole syllabi.
- ii. The students are required to attempt FIVE questions in all, ONE compulsory

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 SYLLAB

10 XX (Y A

10 10 100

To teach the fundamental concepts of Chemistry and their applications-The syllabus pertaining to B-c-

Q-No. – viva voce _____ marks

Minimum of four questions 2 marks each – be asked on the background of practical course –

Q-No. – Note Book _____ marks

* If a question on preparation is asked then the students shall be required to give Equation requirements short procedure in the first minutes – Note Books are not allowed during writing –

10/10 - ()

- Denny R-C- Vogel's Quantitative Inorganic Analysis: 7th edition Pubs. English Language Book Society 99-
- Harwood L-M- Moody J- Experimental Organic Chemistry: 1st edition Pubs. Blackwell Scientific Publications 99-
- Pinner G- Jaeger C- Winehart - Experimental Inorganic Chemistry: 1st edition Pubs. Perkin Elmer Corporation 99-
- Furniss B-S- Rogers - Vogel's Text Book of Practical Organic Chemistry: Pubs. Donghai Kindhsy Pvt-Ltd- 99-
- Gaffand C- - Experiments in Physical Chemistry: 1st edition Pubs. McGraw Hill Book Company 99-
- Bansal R-K- Laboratory Manual of Organic Chemistry: 1st edition Pubs. Key Eastern Limited 99-
- Furniss B-S- Hannaford A-J- Rogers - with Pinner G- Vogel's Text Book of Practical Organic Chemistry: 7th edition Pubs. Longman group 99-
- Khosla B-D- Garg A-C- Gulati A- Senior Practical Physical Chemistry: 1st edition Pubs. R-Chand Co- New Delhi 2022

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 SYLLAB



B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-2022 YLLAB

16 XX... (Y A ...)

n n n n

- i. Examiner will set total of NINE questions comprising TWO questions from each unit and ONE compulsory question of short answer type covering whole syllabi.
- ii. The students are required to attempt FIVE questions in all, ONE

Syllabus

2022-23

Sl. No.	Name of the Paper	Time	Theory	Int. Assess-	Max. Marks
1	Theory Paper A. Invertebrate Zoology I	3 hrs		20	80
2	Theory Paper B. Invertebrate Zoology II	3 hrs		20	80
3	One practical pertaining to entire syllabus	2 hrs	20	20	40

PLANT PHYSIOLOGY

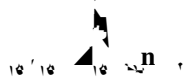
The basic aim of this paper is to familiarize students with the basic principles of plant physiology. The course material of this paper covers various plant forms with functional differentiation and mineral nutrition. In practicals students will be familiarized with the following:-

The teaching methodology includes series of lectures, LCD Models, slides, practical demonstrations, extension lectures, competitions etc.-

Plant Water Relations. Importance of water to plant life, physical properties of water, osmosis, plasmolysis and deplasmolysis, concept of osmotic potential, water potential and absorption of water, active and passive mechanisms, soil moisture Deficit

concept

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEMESTER SYLLABUS



- Bhatia K-N-Plant Physiology A Modern Treatise True Man Book Co-Jalandhar 2 -
- 2 Hop ins -G-Introduction to Plant Physiology-John Wiley Sons Inc-New York -A- 99 -
- Salisbury F-B-and Ross C- -Plant Physiology 2th Edition- Adsworth Publishing Co-California A 2 20-

9- To compare the rate of transpiration from the two sides of a leaf using

- i- Gasoline method
- ii- Cobalt chloride method

- To demonstrate the mechanism of opening and closing of stomata-
- To demonstrate the path of ascent of sap-

10- **n**

- Study of ecological adaptations in external characters of

Hydrilla, Potamogeton, Ceratophyllum, Vallisneria, Lemna, Eichhornia Nelumbium, Calotropis, Nerium, Acacia, Zizyphus, Casuarina, Capparis, Asparagus, Ruscus, Opuntia, Euphorbia royleana.

11- To prepare permanent stained slide to show ecological adaptations in the internal structure of the following.

- a- Transverse section of *Hydrilla*
- b- Transverse leaf and petiole of *Eichhornia*
- c- Transverse leaf and petiole of *Nelumbium*
- d- Transverse leaf of *Nerium*
- e- Transverse section of *Casuarina* and *Capparis*

- To determine soil pH using pH paper solution pH meter-

12- To determine water holding capacity of soil-

13- **n**

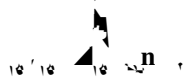
n

- Write material required procedure and precautions for physiology experiment A to be announced by the examiner- Perform the experiment record observations calculations if any and results and show the experiment to the examiner-

14- Identify and cut Transverse section of stem leaf or petiole to be announced by the examiner-of specimen B-Make its permanent stained slide and show it to the examiner-Draw its labeled diagram and write its morphological and anatomical characters of ecological importance-

- Practical note book

15- **n** Viva-voce



- Bhatia K-N-Plant Phy g 2 1 h n q 2 -9 2 2 2 2



Elementary knowledge of the following plants Botanical names families parts used and economic importance

B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-2022 SYLLAB

10/10/2022 10/10/2022

n

Induction. cell to cell interactions. Autocrine paracrine gap junctions; basic concepts of organizers and inducers and their role-Determination and differentiation-

Development up to three germ layers in *Herdmania*, *Amphioxus* frog chick and rabbit-

Foetal membranes their formation and role-

Mammalian placentas their formation types and functions-

Metamorphosis in *Herdmania* and *Rana* frog-

Nine questions are to be set-Question No-1 is compulsory consisting of short answer type questions covering the whole syllabus- It will have 4 parts of 5 marks each- Two questions are to be set from

~~_____ A _____~~

Max-Marks 20
Theory 10 marks
Internal Assessment 10 marks
Time 3 hours

B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 YLLAB



-

- Red pup in beetle *Aulacophorafoveicollis*-
- 2. Pup in fruit fly *Dacuscucurbitae*-alongwith life cycle and control measures-
- Hadda beetle *Epilachnavigintioctopunctata*-



- Pests of stored Grains : systematic position habits and nature of damage of the following pests of stored grains .

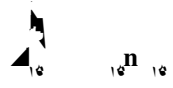
- Pulse Beetle *Callosobruchus maculatus*-
alongwith life cycle and control -
- 2. Rice weevil *Sitophilus oryzae*-
- Khapra beetle *Trogodermagranarium*-
- 3. Rust red flour beetle *Tribolumcastaneum*-
- Lesser grain borer *Rhizoperthadominica*-
- Rice moth *Corcyra cephalonica*-



systematic position disease caused and control of the following insects of Medical and Veterinary importance .

- Mosquitoes *Aedes Anopheles Culex*-
- 2. and fly *Phlebotomus minutus*-
- House fly *Musca domestica*-along with life cycle of house fly-
- 3. Horse fly *Tabanus striatus*-
- Blow fly *Calliphora erythrocephala*-
- ear fly *Hypoderma lineatum*-
- Pod try house *Menopon gallinae*-
- sucking louse *Haematopinus surystrernus*-
- 9- Fleas *Xenopsylla cheopis*-

10. Nine questions are to be set-Question No- is compulsory consisting of short answer type questions covering the whole syllabus- It will have parts of four each- Two questions are to be set from each unit- One question is to be attempted from each unit- In all five questions are to be attempted including compulsory one- 20% of the questions are to be split up into 2 sub parts-



- Attwal A-- Agricultural Pests of India and South East Asia Kalyani Publishers New Delhi 99 -
- 2. Nair M-R-G-K-- Insects and Mites of Crops in India ICAR New Delhi 9 -
- Kumar A-and Nigam-- Economic and Applied Entomology Eastern Publications 99 - P-M-
- 3. Matheson R-- Medical Entomology Co stock Publishing Company Inc- 9 -
- Metcalf R-L-- Destructive and useful Insects McGraw Hill Book Company Inc- New York Toronto London 9 -
- Metcalf R-A--

B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-2022 SYLLAB

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Mutations . Spontaneous and induced mutations physical and chemical mutagens-
Detection of mutations in *Drosophila*- Inborn errors of metabolism in man
Phenylketonuria Alcaptonuria Albinism - oncogenic mutations and carcinogenesis-
Regulation of gene expression in prokaryotes Operon model - and in eukaryotes-

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Population genetics . Equilibrium of gene frequencies and Hardy Weinberg Law-
Genetic drift - mutation - migration - natural selection - genetic drift - mutation - migration - natural selection -
Genetic drift - mutation - migration - natural selection - genetic drift - mutation - migration - natural selection -

Nine questions are to be set- Question No- is compulsory consisting of short answer type questions covering the whole syllabus- It will have parts of four each- Two questions are to be set from each unit- One question is to be attempted from each unit- In all five questions are to be attempted including compulsory one- 20% of the questions are to be split up into 2 sub parts-



- Ba er F-J- and J verton

Introduction to M



- **A**
 - i- Species of Honeybees
 - ii- Flora for Apiculture
 - iii- Methods & Appliances of Bee Keeping
 - iv- Products a- Honey b- Bee wax c- Propolis d- Pollen e- Royal Jelly
f- Beeswax
 - v- Diseases of Honey bee

- **B**
 - i- Species and varieties of Lac insect
 - ii- Host plants
 - iii-

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 SYLLAB

1. Attwal A-- Agricultural Pests of India and South East Asia Kalyani
Publishers New Delhi 99
2. Dent D-- Integrated Pest Management Chapman Hall London New
York Tokyo Madras 99 -
- 22 D-- 99 2022-23 2-3 - 2-3 - 2 est i 99 - n ap a- - a-9 202 - 2 -
d- 9 9- 2-9 2 - 2 Y



- Fish by products
- Fish marketing
- Fish preservation. Principles of fish preservation preservation by curing Drying salting and smoking- Chilling and freezing of fish Canning of fish and fish products packaging of fish Rigor mortis

Nine questions are to be set-Question No- is compulsory consisting of short answer type questions covering the whole syllabus- It will have parts of four each- Two questions are to be set from each unit- One question is to be attempted from each unit- In all five questions are to be attempted including compulsory one- 20% of the questions are to be split up into 2 sub parts-

10 10 10

- Jhingran -G- Fish and Fisheries of India Hindustan Publishing Corporation of India Delhi 99 -
- 2. Day F- Fishes of India 1-I II Reprinted Edition Jagender Boo Agency New Delhi 99-
- Jhingran -G- Monograph on the Fishes of Reorganised Punjab K-K- Punjab Fisheries Bulletin- 1-I II 999 -

B-A-B- C-GENER -

To understand general aspects of vitamins hormones nutrition immunology blood coagulation muscle contraction and nerve impulse transmission-

water soluble fat soluble their sources structure biochemical function- Role of Thiamine Riboflavin Niacin Pyridoxine Pantothenic Acid biotin folic acid and Ascorbic acid- Role of Vitamin A in the visual cycle Role of Vitamin D Vitamin E and Antioxidant theory role of Vitamin K in Coagulation-

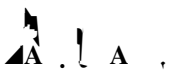
Essential nutrients- Protein energy and nutrition starvation and obesity- Respiratory quotient R-Q of carbohydrates proteins and lipids- Basic metabolic rate and factors influencing it- Specific dynamic action of foods-

Biochemical principles of toxicology-Phase I react

B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-2022 YLLAB



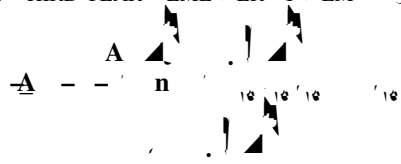
B-A-B-C-GENERAL-THIRD YEAR SEMESTER YEAR-2022 SYLLAB





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B-A-B-C-GENERAL-THIRD YEAR SEMESTER SYSTEM-2022 SYLLAB



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Max-Marks : Marks
Theory : Marks
Internal Assessment : Marks

B-A-B- C-GENERAL-

Crop Citrus

10 10 10

Fungal
Bacterial
Viral

Citrus Black spot
Citrus canker
Citrus Yellow Mosaic

Guignardia citricarpa
Xanthomonas citri
Badnavirus

Crop Grapes

10 10 10

Fungal
Bacterial
Viral

Powdery Mildew of grapevine
Crown gall
Corky bark

Ucinula nectator
Agrobacterium tumefaciens
Grapevine virus B

Crop Cotton

10 10 10

Fungal
Bacterial
Viral

Cotton Rust
Bacterial Blight of Cotton
Leaf curl

Puccinia schedonnardii
Xanthomonas citri
Bigeye virus or Cotton Leaf curl virus CLCu

Vegetables

10 10 10

Fungal
Bacterial
Viral

10 10 10

Puccinia schedonnardii

Unit -

General account of Insects and pests
Classification of Insects
Parts of Insect body
Control measures of Insect pests and diseases of crop

Unit -

Insect and nematode diseases of Cereals Wheat Maize Rice-crops, Oilseeds, Cotton, Groundnut Mustard-crops,
Fruit Mango Guava Citrus-crops

Vegetable crops

Green Peas
Chick Peas Cicer arietinum -

Chilli
Onion

- **B**alanced Diet

- Prefect

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B-A-B- C-GENERAL-

B-A-B-C-GENERAL-THIRD YEAR SEMESTER V SEM-2022 SYLLAB

Sr. No.	Name of Paper	No. of Papers	Time in hrs.	Marks allotted	Int. Ass.	No. of Papers	Time In hrs.	Marks Allotted	Int. Ass.	Total Marks
-	Food Nutrition and Child Development									

Note Int.

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III- Therapeutic Diets Modification of Normal Diet

- a- Principles of therapeutic diets-
- b- Concept of soft and liquid diets with examples-

I - Therapeutic diets in the following conditions with principles involved.

- a- Fever
- b- Diarrhoea
- c- High blood pressure Hypertension
- d- Diabetes Mellitus-

.!

I- Emotional Development of the child from infancy up to 5 years

- a- Characteristics of children's emotions-
- b- Common childhood emotions Fear, anger, jealousy, curiosity, love and affection-

II- Language Development-

- a- Stages of language development-
- b- Factors affecting language development

.!

III- Play

- a- Significance of play-
- b- Types of play-
- c- Play materials equipment required for various age groups-

IX-Common behavioural problems and their remedies Bed wetting thumb sucking nail biting temper tantrums-

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▲ .! ▲
n-A -
6 18 100

I Planning Preparation of diets for the following.

- a- Pre-cholesterol
- b- cholesterol going packed lunch
- c- Adolescent
- d- Pregnant and lactating woman-

