

Session –2023- 2024 (Syllabus Unitization)

Semester – 3rd

B.A/B.Sc /BBA/B.Com
Semester -- 3rd
Subject – English (Compulsory)
Maximum Marks 50

University Paper Pattern: Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus) for theory paper, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

Month Wise Division	Unitization of Syllabus
JULY & AUGUST	Section C Poems 1. Thou Mayst in Me Behold That Time Of Year 2. Virtue 3. Belinda’s Dressing Table 4. Ode to Skylark Section D Making Connections Unit – 1, Global Health Readings
SEPTEMBER	Sections D Making Connections Unit – 1,Global Health Skills and Strategies Sections A & B Grammar Units – 98 to 120 137 to 145
OCTOBER & NOVEMBER	Poems: La Belle Dame Sans Merci Ulysses Section D Unit – 2, Multicultural Societies Readings and Skills and Strategies Sections A & B Grammar Units – 121 to 136

Texts Prescribed

1. *Making Connections* by Kenneth J. Pakenham, Jo McEntire, Jessica Williams, 3rdEdition.CUP.
2. *Moments in Time: An Anthology of Poems*, GNDU, Amritsar.
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP

B.A/B.com/BBA/B.Sc(Semester System)
SEMESTER-3rdsem
Subject-Basic Punjabi

Pattern of Question Paper- *ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
*ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ।
*ਪ੍ਰਸ਼ਨ ਪੰਜਵਾਂ ਕਿਸੇ ਵਿਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦਸ ਅੰਕ ਹਨ।

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	UNIT-1 ਵਾਕੰਸ਼ UNIT-2 ਪੈਰਾ ਰਚਨਾ UNIT-3 ਅਖਾਣ
SEPTEMBER	UNIT-1 ਉਪਵਾਕ UNIT-2 ਚਿੱਠੀ ਪੱਤਰ UNIT-4 ਸੰਖੇਪ ਰਚਨਾ
OCTOBER & NOVEMBER	UNIT-1 ਵਾਕ UNIT-3 ਮੁਹਾਵਰੇ UNIT-4 ਪੈਰਾ ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ

B.A. /B.com/B.Sc/BBA (Semester System)
SEMESTER-3rdsem
Subject-G.Pbi

Pattern of Question Paper-*ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
 *ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ।
 *ਪ੍ਰਸ਼ਨ ਪੰਜਵਾਂ ਕਿਸੇ ਵਿਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦਸ ਅੰਕ ਹਨ।

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>UNIT- 1 ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ ਵਤਨ ਦਾ ਪਿਆਰ, ਸਾਕਾ ਸ੍ਰੀ ਨਨਕਾਣਾ ਸਾਹਿਬ, ਘਰ ਦਾ ਪਿਆਰ, ਮੇਰੀ ਦਾਦੀ ਜੀ, ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਦੀ ਸ਼ਹਾਦਤ।</p> <p>UNIT 2 :- ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਇਕਾਂਗੀ ਸੁਹਾਗ, ਨਵਾਂ ਚਾਨਣ।</p> <p>UNIT- 4 ਵਿਆਕਰਨ ਮੂਲ ਵਿਆਕਰਨਿਕ ਇਕਾਈਆਂ, ਪਰਿਭਾਸ਼ਾ ਤੇ ਵੰਨਗੀ- ਭਾਵੰਸ, ਸ਼ਬਦ।</p>
SEPTEMBER	<p>UNIT-1 ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ ਸ਼ਾਂਤੀ ਨਿਕੇਤਨ, ਗਿੱਧਾ, ਅੱਥਰੂ, ਪੰਜਾਬੀ ਦਾ ਸੱਭਿਆਚਾਰ।</p> <p>UNIT-2 ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਇਕਾਂਗੀ ਅੰਨ੍ਹੇ ਨਿਸ਼ਾਨਚੀ, ਅਰਮਾਨ, ਚਾਬੀਆਂ, ਮਿੱਟੀ ਦਾ ਬਾਵਾ।</p> <p>UNIT-4 ਵਿਆਕਰਣ, ਵਾਕੰਸ਼, ਉਪਵਾਕ।</p>
OCTOBER & NOVEMBER	<p>UNIT-1 ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ: ਸੜਕ ਪਾਰ ਕਰਦਾ ਬੁਢੇਪਾ।</p> <p>UNIT-2 ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਇਕਾਂਗੀ, ਸੱਧਰਾਂ।</p> <p>UNIT-4 ਵਿਆਕਰਨ, ਵਾਕ।</p> <p>UNIT-3 ਸੰਖੇਪ ਰਚਨਾ। ਸ਼ਬਦ ਜੋੜਾਂ ਨੂੰ ਸੁੱਧ ਕਰਨਾ।</p>

ਪਾਠ ਪੁਸਤਕਾਂ:

UNIT- 1

ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ (ਸੰਪਾਦਕ ਡਾ. ਗੁਰਬਚਨ ਸਿੰਘ ਤਾਲਿਬ), ਪੰਜਾਬੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ।

UNIT-2

ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਇਕਾਂਗੀ (ਇਕਾਂਗੀ ਸੰਗ੍ਰਹਿ)(ਸੰਪਾਦਕ ਡਾ. ਰਮਿੰਦਰ ਕੌਰ, ਕਸਤੂਰੀ ਲਾਲ ਐਂਡ ਸੰਨਜ਼, ਅੰਮ੍ਰਿਤਸਰ

SEMESTER– B.A -3rd
Subject-PUNJAB HISTORY & CULTURE
(From 1000 to 1605 A. D)

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	UNIT-I. Society and Culture of Punjab during the Turko-Afghan rule. The Punjab under the Mughals UNIT–II. . Bhakti Movement and its Impact on Society of Punjab
SEPTEMBER	UNIT-II. Sufism in Punjab with Special Reference to Baba Farid. UNIT -III Guru Nanak-Life and travels Teachings of Guru Nanak
OCTOBER & NOVEMBER	UNIT-III. Concept of Sangat, Pangat and Dharmsal. Unit –IV. Contribution of Guru Angad Dev, Guru Amar Das and Guru Ram Das. Compilation of Adi Granth and Martyrdom of Guru Arjun Dev.

Prescribed Book:-

Name -History and Culture of Punjab

Author-Raghunath Rai

Publisher-New Academic Publishing Company

B.A Semester - 3rd
Subject --ELECTIVE ENGLISH
Maximum Marks – 100

University Paper Pattern: Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus) for theory paper, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

Month Wise Division	Unitization of Syllabus
JULY & AUGUST	<p>Section B Poems</p> <ol style="list-style-type: none"> 1. Belinda's Toilet 2. London 3. The Tables Turned 4. Man and Nature 5. The Cloud 6. Voices 7. Futility 8. Day Break <p>Section C New Directions Unit – 1, Intercultural Communication</p>
SEPTEMBER	<p>Section A Novel -- Animal Farm to be completed</p> <p>Section D Transcription of the prescribed words agony, antonym, capable, committee, decorum, aeroplane, calendar, privacy, absolute, academy, academic, advertisement, adversity, allopathic, mathematics, automobile, biography, biology, competition, competitive, certificate, certify, democracy, capacity, magnificent, photography, photograph, photographic, vindictive, celebrity</p>
OCTOBER & NOVEMBER	<p>Section B Poems</p> <ol style="list-style-type: none"> 9. Self's the Man, 10. Spinster 11. Leave This Chanting 12. The Poet 13. Guru <p>Sections C & D New Directions Unit 2nd & 3rd Education Mass Media and Technology Transcription Practice of more words</p>

Books Prescribed:

1. *Animal Farm* by George Orwell
2. *Fresh Showers*, G.N.D.U. Amritsar
3. *New Directions*

B.A. (SEMESTER-3rd Sem)
Subject-ELECTIVE PUNJABI

Pattern of Question Paper- *ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
*ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ।
*ਪ੍ਰਸ਼ਨ ਪੰਜਵਾਂ ਕਿਸੇ ਵਿਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦਸ ਅੰਕ ਹਨ।

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>UNIT-1 : ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਕਾਵਿ (1701 ਤੋਂ 1900) ਸੂਫੀ ਕਾਵਿ—ਬੁੱਲ੍ਹੇ ਸ਼ਾਹ ਤੇ ਵਜੀਦ</p> <p>UNIT-2 ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੀ ਸ਼ਾਹਰਾਹ ਭਾਬੀ ਮੈਨਾ, ਪੇਮੀ ਦੇ ਨਿਆਣੇ, ਰਾਸਲੀਲਾ, ਸ਼ਹਿਜ਼ਾਦ, ਤੇ ਝੁਮਕੇ</p> <p>UNIT-3 ਸੱਭਿਆਚਾਰ ਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਸਭਿਆਚਾਰਕ: ਪਰਿਭਾਸ਼ਾ, ਪੰਜਾਬ ਦੇ ਜੰਮਿਆਂ ਨੂੰ ਨਿੱਤ ਮੁਹਿੰਮਾਂ, ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ : ਕੁਝ ਬਾਹਰੀ ਪ੍ਰਭਾਵ ,ਸਭਿਆਚਾਰ ਅਤੇ ਸਾਹਿਤ।</p>
SEPTEMBER	<p>UNIT-1 ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਕਾਵਿ ਕਿੱਸਾ ਕਾਵਿ—ਵਾਰਿਸ ਸ਼ਾਹ ਤੇ ਕਾਦਰਯਾਰ</p> <p>UNIT-2 ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੀ ਸ਼ਾਹਰਾਹ ਮੁਰਕੀਆਂ, ਮੁਰਦੇ ਦੀ ਤਾਕਤ, ਕੋਟ ਤੇ ਮਨੁੱਖ, ਇੱਕ ਸਧਾਰਨ ਆਦਮੀ ਹਾਰ ਗਿਆਂ ਰਤਨਿਆ।</p> <p>UNIT-3 ਸੱਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਪੰਜਾਬੀ ਲੋਕ ਕਾਵਿ ਅਤੇ ਸਭਿਆਚਾਰ ,ਪੁਤਲੀਆਂ ਦਾ ਤਮਾਸ਼ਾ, ਕਾਹਨੂੰ ਲੱਭਦੇ ਮੱਲ ਅਖਾੜਿਆ ਦੇ , ਸਿਆਲਾਂ ਦੀਆਂ ਧੂਣੀਆਂ।</p>
OCTOBER & NOVEMBER	<p>UNIT-1 ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਕਾਵਿ ਬੀਰ ਕਾਵਿ—ਨਜ਼ਾਬਤ ਤੇ ਸ਼ਾਹ ਮੁਹੰਮਦ</p> <p>UNIT-2 ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੀ ਸ਼ਾਹਰਾਹ ਬੁੱਤ ਸ਼ਿਕਨ, ਉਹ ਸੋਚਦੀ, ਘੋਟਣਾ, ਕੁਰਾਹੀਆ</p> <p>UNIT-3 ਸੱਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਭੰਗੜਾ : ਪਰੰਪਰਾ ਬਨਾਮ ਆਧੁਨਿਕਤਾ, ਬੁਝਾਰਤਾਂ ਅਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ, ਭੰਡਾਂ ਦੀ ਭੰਡੀ ਤੇ ਮੀਡੀਏ ਦੀ ਮਾਰ, ਪੰਜਾਬੀ ਫਿਲਮ ਦੀ ਸਭਿਆਚਾਰਕ ਪਰਖ</p>

ਪਾਠ ਪੁਸਤਕਾਂ

1. ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਕਾਵਿ (1701 ਤੋਂ 1900) (ਸੰਪਾ. ਹਰਜਿੰਦਰ ਸਿੰਘ ਢਿੱਲੋਂ ਅਤੇ ਨਰਜੀਤ ਸਿੰਘ ਖਹਿਰਾ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ)
2. ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੀ ਸ਼ਾਹਰਾਹ (ਸੰਪਾ ਡਾ. ਰਮਿੰਦਰ ਕੌਰ ,ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ)
3. ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ(ਨਿਬੰਧ ਸੰਗ੍ਰਹਿ), (ਸੰਪਾ ਡਾਕਟਰ ਰਣਜੀਤ ਸਿੰਘ ਬਾਜਵਾ ਅਤੇ ਪ੍ਰਿੰ. ਵੀਰ ਸਿੰਘ ਰੰਧਾਵਾ)
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।

कक्षा – बी.ए.सेमेस्टर –III
विषय – इलेक्टिव हिन्दी

आवश्यक निर्देश – पाठ्यक्रम में निर्दिष्ट समान अंकों के 8 प्रश्न होंगे, जो चार खंडों (ए-डी) में विभाजित होंगे। प्रश्नों को उपभागों में (चार से अधिक नहीं) विभाजित किया जा सकता है। विद्यार्थी को प्रत्येक खंड में से एक प्रश्न हल करना आवश्यक होगा। कुल पाँच प्रश्नों के उत्तर देने अनिवार्य होंगे। पांचवा प्रश्न किसी भी खंड में से हल किया जा सकता है।

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<ul style="list-style-type: none">➤ कबीर के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न➤ गुरु नानक देव जी के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न➤ सूरदास के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न➤ तुलसीदास के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न
SEPTEMBER	<ul style="list-style-type: none">➤ रविदास के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न➤ बिहारी के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न, जीवन परिचय और काव्य संबंधी प्रश्न➤ रहीमके काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न➤ गुरु तेग बहादुर जी के काव्य की व्याख्या, जीवन परिचय और काव्य संबंधी प्रश्न
OCTOBER & NOVEMBER	<ul style="list-style-type: none">➤ आदिकाल का नामकरण➤ आदिकाल की परिस्थितियाँ➤ आदिकाल की प्रवृत्तियाँ➤ सिद्ध साहित्य : परिचय और विशेषताएँ➤ रासो साहित्य : परिचय और विशेषताएँ➤ अलंकार (अनुप्रास, यमक, उपमा, रूपक, प्रतीक, विरोधाभास) : परिभाषा, लक्षण व उदाहरण➤ स्वर : परिभाषा➤ व्यंजन : परिभाषा➤ लिंग, वचन➤ संधि और संधिविच्छेद

❖ सहायक पुस्तकें

1. पुस्तक का नाम – काव्य उत्कर्ष
लेखक/संपादक – प्रो. सुधा जितेंदर
प्रकाशक – गुरु नानक देव विश्वविद्यालय, अमृतसर।
2. पुस्तक का नाम – आदर्श हिन्दी व्याकरण
लेखक – डॉ. हरमोहन लाल सूद
प्रकाशक – वागीश प्रकाशन, जालंधर।
3. पुस्तक का नाम - हिन्दी साहित्य का इतिहास : युग और प्रवृत्तियाँ
लेखक/संपादक – डॉ. शिवकुमार शर्मा
प्रकाशन – अशोक प्रकाशन, दिल्ली।

स्नातकोत्तर हिन्दी विभाग
कक्षा – बी.ए.सेमेस्टर –III
विषय – हिन्दी ऑनर्ज़

आवश्यक निर्देश – पाठ्यक्रम में निर्दिष्ट समान अंकों के 8 प्रश्न होंगे, जो चार खंडों (ए-डी) में विभाजित होंगे। प्रश्नों को उपभागों में (चार से अधिक नहीं) विभाजित किया जा सकता है। विद्यार्थी को प्रत्येक खंड में से एक प्रश्न हल करना आवश्यक होगा। कुल पाँच प्रश्नों के उत्तर देने अनिवार्य होंगे। पांचवा प्रश्न किसी भी खंड में से हल किया जा सकता है।

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<ul style="list-style-type: none"> ➤ अक्सर एक व्यथा : व्याख्या ➤ एक सूनी नाव : व्याख्या ➤ स्मृति : व्याख्या ➤ रसोई : व्याख्या ➤ पिछड़ा आदमी : व्याख्या ➤ अपनी बिटिया के लिए दो कविताएं : व्याख्या ➤ काठमाण्डू में भोर : व्याख्या ➤ तुम्हारे लिए : व्याख्या ➤ लू शुन और चिड़िया : व्याख्या ➤ धीरे-धीरे : व्याख्या ➤ अंत में : व्याख्या ➤ सर्वेश्वर दयाल सक्सेना : व्यक्तित्व और कृतित्व ➤ सर्वेश्वर दयाल सक्सेना के काव्य की साहित्यिक विशेषताएँ
SEPTEMBER	<ul style="list-style-type: none"> ➤ सर्वेश्वर दयाल सक्सेना के काव्य में मध्यवर्गीय चेतना ➤ नई कविता के संदर्भ में सर्वेश्वर दयाल सक्सेना का काव्य ➤ सर्वेश्वर दयाल सक्सेना की काव्य भाषा ➤ एक कंठ विषपायी : व्याख्या
OCTOBER & NOVEMBER	<ul style="list-style-type: none"> ➤ दुष्यंत कुमार : व्यक्तित्व और कृतित्व ➤ एक कंठ विषपायी में वर्णित पौराणिकता और आधुनिकता ➤ एक कंठ विषपायी : शीर्षक की सार्थकता ➤ एक कंठ विषपायी की मूल संवेदना ➤ एक कंठ विषपायी की भाषा संरचना

❖ **सहायक पुस्तकें**

4. पुस्तक का नाम –सर्वेश्वर दयाल सक्सेना (प्रतिनिधि कविताएं)
लेखक/संपादक –सर्वेश्वर दयाल सक्सेना
प्रकाशक –राजकमल प्रकाशन, नई दिल्ली।
5. पुस्तक का नाम – एक कंठ विषपायी
लेखक – दुष्यंत कुमार
प्रकाशक – लोकभारती प्रकाशन, इलाहाबाद।

CLASS – BA/BSC-III SEMESTER (COMPUTER APPLICATIONS)

Subject - OPERATING SYSTEM

University Paper Pattern: Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus) for theory paper, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<u>SECTION–A</u> 1. What is an Operating System - Evolution of OS Machine Language, Assembly, Compiler, and Interpreter? 2. Types of Operating Systems with Examples a) Single User Systems b) Multi User Systems: Unix, Xenix, Vax/VMS.
SEPTEMBER	<u>SECTION–B</u> Functions of Operating System a) Memory Management (Fixed Sized partition, Variable Sized Partition, Dynamic Memory Management with Reallocation Technique, Paging Demand Paging Techniques). b) CPU Management (For come First served, Shortest Job First, Round Robin Policy). c) File Management. d) I/O Device Management. e) Command Interpreter. f) Data Management. g) Programme Developing Tools. h) Time Sharing. i) Security. j) Communication; Booting a System. <u>SECTION–C</u> <ul style="list-style-type: none">• Features and Benefits of Unix. a) Unix System (Multi-programming, time-sharing, multitasking). b) Components of Unix (Kernel, Shell). c) UNIX file system (Data Block, list, super block, boot block). d) Types of Files (Ordinary, Directory and Special Files). e) Types of users in UNIX - levels of users (0-2).
OCTOBER & NOVEMBER	<u>SECTION–D</u> Login and Logout from Unix Session. <ul style="list-style-type: none">• Types of Shells (Bourne, c-shell, r-shell). Shell as a command init, clear. Simple Directory and File Commands: Cat, is, in, chmod, mail, who, whoami, cal, pwd, date, ps, mkdir, cd, rmdir, rm, tput, clear. Piping, filters, batch processing, shell programming (echo, read, case constructs) Editors (vi): Commands for opening, inserting, modifying, deleting and saving files.

Prescribed Book

Book Name – Operating System

Author – Charanjeet Singh

Publisher –Kalyani Publishers

B.A./B.Sc. (Semester System) (12+3 System of Education)
SEMESTER–III COMPUTER SCIENCE
SUBJECT: COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS

Time: 3 Hours Max. Marks: 100 (Theory Marks: 75 Practical Marks: 25)

Pattern of Question Paper - Eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Month wise Division	Syllabus Unitization
August	SECTION–A Introduction: Numerical methods, Numerical methods versus numerical analysis, Errors and Measures of Errors. Non-linear Equations, Iterative Solutions, Multiple roots and other difficulties, Interpolation methods, Methods of bisection, False position Method, Newton Raphson-method.
September	SECTION–B Simultaneous Solution of Equations, Gauss Elimination Method Gauss Jordan method. Gauss Siedel Method, Matrix Inversion Method. SECTION–C Interpolation and Curve Fitting, Lagrangian Polynomials, Newtons Methods: Forward Difference Method, Backward Difference Method Divided Difference Method. Numerical Integration and Different Trapezoidal Rule, Simpson's 1/3 Rule Simpson's 3/8 Rule.
October- November	SECTION–D Numerical differentiation by Polynomial Fit Statistical Techniques Measure of Central Tendency, Preparing frequency distribution table, Mean Arithmetic, Mean geometric, Mean harmonic, Mean median Mode. Measure of dispersion, Skewness and Kurtosis Range, Mean deviation, Standard deviation, coefficient of variation, Moments Skewness Kurtosis. Correlation Bivariate Distribution Multivariate distribution. Regression B.C., Linear Regression, Multiple Regression. Trend Analysis least square fit linear trend, Non-linear trend $Y=ax^b$ $Y=abx$ $Y=acx$ Polynomial fit: $Y=a+alX+ea^2x^2+a^nx^n+n$

Prescribed Books

Book Name – Numerical Methods

Author – B.S. Grewal

Publisher – Sultan Chand Publications

B.A SEMESTER–III
Subject: POLITICAL SCIENCE
Paper: INDIAN CONSTITUTION

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<ul style="list-style-type: none">• Historical development of Indian Constitution• Basic features of the Indian Constitution• Preamble and its importance• Nature of Indian Federalism and Centre-State Relations• Fundamental Rights, features, kinds and evaluation• Fundamental Duties
SEPTEMBER	<ul style="list-style-type: none">• Directive Principles of the State Policy• Parliament: Composition, Powers and Role• President: Election, Powers and Position• Indian Cabinet and Prime Minister: Election, Powers, Position and Changing Role• Supreme Court and High Court: Composition, Powers and Role
OCTOBER & NOVEMBER	<ul style="list-style-type: none">• Governor: Appointment, Powers and Role• State Legislature: Composition, Powers and Role• Council of Ministers and Chief Minister: Election, Powers, Position and Role

Prescribed Book:-

Name of the Book- Indian Constitution

Author Name- J.S. Badyal

Publishers- Raj Publications

SEMESTER–III (Honours)
Subject: POLITICAL SCIENCE
PAPER (II): PUBLIC ADMINISTRATION

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<ul style="list-style-type: none"> • Meaning, Scope and Utility, distinction between Public Administration and Private Administration. • New Public Administration • New Public Management • Organization: Meaning, Principles of Organization: Hierarchy; Unity of Command; Coordination. Delegated legislation, Administrative Adjudication.
SEPTEMBER	<ul style="list-style-type: none"> • The Concept of Good Governance and its characteristics. • Role of Chief Executive. • Civil Services: Recruitment and Training, Their role in Nation Building • Minister–Secretary Relationship • Generalist–Specialist controversy.
OCTOBER & NOVEMBER	<ul style="list-style-type: none"> • Budget: Meaning, Importance, Principles of Sound Budgetary System. • Parliamentary Control over Finance.

Prescribed Book:-

Name of the Book- Principles of Public Administration

Author Name- U.R.Ghai

Publishers- New Academic Publishers

B.A. SEMESTER-3rd
Subject-PUBLIC ADMINISTRATION
Paper – Personnel Administration in India

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>Unit-1 Introduction: Meaning, Nature and Scope of Personnel Administration. Characteristics of Public Personnel Administration in India. Functions and Significance of Personnel Administration. Public Services and their role in Administrative System</p>
SEPTEMBER	<p>Unit –II Civil Services in India: Role and rationale of All India Services. Recruitment: Meaning, Methods Promotion: Meaning, Principles. Training: Meaning, Objectives and Types, Training System in India Unit-III Personnel Agencies: Functions and Role of Department of Personnel and Public Grievances, Union Public Service Commission, State Public Service Commissions & Staff Selection Commissions.</p>
OCTOBER & NOVEMBER	<p>Unit-IV-Employer—Employee Relations and Working Conditions: Employee’s participation in Management. Rights of Public Servant, Conduct and Discipline. Integrity in Public Services - Problem of Corruption. Lok Pal and Lok Ayukta. Central Vigilance Commission</p>

Prescribed Book: -

Name- Personnel Administration in India

Author- Dr Pundrik Ojha

Publisher- Raj Publisher Jalandhar

B.A SEMESTER–III
SUBJECT - HOME SCIENCE (THEORY)
CLOTHING TEXTILES (PART–I)

Pattern of Question Paper- There will be Eight questions of equal marks (Specified in the syllabus) two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

<u>MONTH WISE DIVISION</u>	<u>SYLLABUS UNITISATION</u>
JULY & AUGUST	<p>SECTION – A 1. Equipments & supplies in clothing: Construction—their use & care 2. Sewing Machine: (a) Parts of Sewing Machine and its accessories (b) Common defects in sewing machine and their remedies (c) Care of Sewing Machines SECTION - B 3. Recording of Body measurements. Care to be taken while taking body measurements.</p>
SEPTEMBER	<p>4. Different methods of developing a design—Drafting, Pattern making, Draping (in brief) their advantages and disadvantages. SECTION - C 5. Classification of textile fibres 6. Manufacture (in Brief) & properties of different fibres. a) Cotton b) Linen</p>
OCTOBER & NOVEMBER	<p>SECTION - C c) Silk d) Wool e) Nylon f) Polyester g) Rayon-Viscose & Acetate SECTION - D 7. Application of color on fabrics Dyeing— Simple dyeing of cotton. Resist Dyeing—Tie & Dye and Batik 2. Printing. a) Block Printing. b) Screen Printing. c) Roller Printing 3. Methods of Laundry/Washing</p>

References Books:

- | | |
|---|------------------------------------|
| 1. New Plan Cutting and Tailoring | Author: Sharma, Shyam Sunder |
| 2. Fundamental of Textiles and their Care | Author: Dhantyagi, Shusheel Sharma |
| 3. Pradeep’s Clothing Textiles and their Care | Author: Dr. Rajwinder K. Randhawa |
| 4. Textbook of Home Science | Author: Neelam Garewal |
| 5. Textiles Fibre to Fabric | Author: Cogman, Bernard |

**B.A SEMESTER–III
HOME SCIENCE (Practical)
CLOTHING TEXTILES (PART–I)
Time: 4 hours M.Marks:50**

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>Clothing Practical: Make samples of the following:</p> <p>a) Tacking, hemming, buttonhole stitch, fasteners.</p> <p>b) Seams-counter seam, run and fell, French seam.</p> <p>c) Processes- continuous wrap, two piece placket opening, pleats, gathers into band, tucks.</p> <p>d) Embroidery-10 fancy embroidery stitches</p>
SEPTEMBER	<p>Drafting of the following:</p> <p>a) Childs bodice block.</p> <p>b) Sleeves- plain and puff sleeve.</p> <p>c) Collars-flat and raised peter pan, cape collar, baby collar.</p> <p>Drafting and Stitching of:</p> <p>a) Bloomer</p> <p>b) Childs frock gathered /A-line frock. Attach a sleeve and collar</p>
OCTOBER & NOVEMBER	<p>Textile Practical:</p> <p>1. Testing of Cotton, Wool & Silk, and Nylon by Burning test.</p> <p>2. Simple house hold dyeing of cotton fabric 12"x12".</p> <p>3. Preparations of an article of Tie and Dye.</p> <p>4. Preparation of article of block printing.</p>

Instructions for the Practical Exam:-

There will be one practical exam consisting of two parts i.e clothing and textiles.
The division of marks and time will be as follows:

Clothing Practical - 2 hrs 30 min

- | | |
|--------------------------------------|----------|
| a. Drafting and stitching of garment | 15 marks |
| b. Sample / Embroidery | 5 marks |
| c. File and scheme work | 10 marks |

Textiles Practical -1 hr 30 min

- | | |
|---------------------------------|----------|
| a. Block printing / tie and dye | 10 marks |
| b. Identification of fibers | 5 marks |
| c. File and viva | 5 marks |

B.A SEMESTER–III
SUBJECT - FASHION DESIGNING AND GARMENT CONSTRUCTION
(VOCATIONAL)
FUNDAMENTALS OF TEXTILES (THEORY)

Pattern of Question Paper- There will be eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

<u>MONTH WISE DIVISION</u>	<u>SYLLABUS UNITISATION</u>
JULY & AUGUST	<p>SECTION – I</p> <p>a) Introduction to Textiles and Its Importance in Fashion Designing</p> <p>b) Classification of Textile Fibers and Terminology–Fiber, Filament, Yarn, Fabric Grey Goods, Fiber Length, Elasticity, Evenness, Moisture Absorption, Fiber Strength</p>
SEPTEMBER	<p>SECTION – II</p> <p>Properties & Manufacturing Process of Natural Fiber</p> <p>a) Cotton b) Wool c) Silk</p> <p>SECTION – III</p> <p>Properties and Manufacturing Process of Artificial Fiber</p> <p>a) Nylon b) Rayon c) Spandex</p>
OCTOBER & NOVEMBER	<p>SECTION – IV</p> <p>Brief Study of the Following Yarns:</p> <p>a) Classification of Yarns – Carded and Combed, Woolen and Worsted, Filament and Spun b) Simple, Novelty, Bulk/Textured</p>

Prescribed Book:- Name- Clothing Textiles and their Care

Author- Dr. Rajwinder K. Randhawa

Publisher- Pradeep

B.A SEMESTER-III
SUBJECT - FASHION DESIGNING AND GARMENT CONSTRUCTION
(VOCATIONAL)
PATTERN MAKING AND GARMENT CONSTRUCTION (PRACTICAL)

Pattern of Question Paper: Q. 1 from Part-A
 Q. 2 from Part-B
 Q. 3 from File and scheme

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	PART – A 1. Pattern Making I. Dart Manipulation by Flat Pattern (2-3 exercises under each heading) a) Shifting of darts b) Combining darts c) Converting darts into gathers d) Converting darts into seam line
SEPTEMBER	II. Drafting and Adaptation a) Skirts-Basic Skirt, Peg Skirt, Pleated Skirt, Flared Skirt, Gathered With Yoke b) Tops-Cowl Neckline, Turtle Neckline PART - B 2. Construction I) Design and Construct Tops with – Cowl and Turtle Neckline
OCTOBER & NOVEMBER	II) Design and Construct an Adult Skirt III) Traditional Embroidery-Phulkari, Kashmiri

B.A. SEMESTER-III
Subject -SOCIOLOGY

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>Unit-III (a) Marriage: meaning, types, functions, changes (b) Family: meaning, types, functions, changes (c) Kinship: Meaning and terminology</p> <p>Unit-IV (a) Society in India: rural, urban and tribal</p>
SEPTEMBER	<p>Unit-IV (a) Society in India: rural, urban and tribal</p> <p>Unit-I (a) Indian Society: features and unity in diversity (b) Caste: features, functions, changing patterns. Difference between caste and class.</p>
OCTOBER & NOVEMBER	<p>Unit-I (a) Indian Society: features and unity in diversity (b) Caste: features, functions, changing patterns. Difference between caste and class</p> <p>Unit-II (a) Social Issues: communalism, casteism, gender, human rights.</p>

Prescribed books:

Kapila, S: A Textbook of Sociology, Part-I & II, New Academic House, Jalandhar, 1990-91.

B.A. /B.Sc. (SEMESTER–III)
Subject: ECONOMICS
Paper: NDIAN ECONOMY

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>SECTION – A Nature of Indian Economy, Agriculture in India: Nature and Importance of Agriculture, Causes of Decline in Productivity, Sustainable Agricultural Growth. Green Revolution and New Agricultural Strategy, WTO and Indian Agriculture (Introductory).</p> <p>SECTION – B Industry: Performance and Problems of Industrial Development.</p>
SEPTEMBER	<p>SECTION – B Public Sector versus Private Sector, Role of Privatization, Role of Small and Cottage Industries. Latest Industrial Policy.</p> <p>SECTION – C Foreign Trade: Direction and Composition of Exports and Imports Since 1991, Recent Foreign Trade Policy, Balance of Payment Problem. Foreign Capital and Multinational Corporations in India.</p>
OCTOBER & NOVEMBER	<p>SECTION – D Features of Population Growth in India, Major Problems of the Economy – Inflation, Unemployment, Poverty and Inequality, Current Indian Tax Structure. Planning- Objectives, Strategy, Evaluation of Planning in India. Objectives, Targets, Resources of the Latest Five Year Plan (Twelfth Five Year Plan).</p>

Prescribed Book:-

Name- Indian Economy

Authors- T.R. Jain, Mukesh Trehan, Ranju Trehan

Publisher-VK Publisher

SEMESTER-B.A 3rd
Subject- HISTORY
Paper: History of Modern India

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>UNIT-I. Foundation of British Rule: Advent of the British; Battles of Plassey and Buxar, Clive and Warren Hastings; Subsidiary Alliance Policy, Doctrine of Lapse.</p> <p>The Uprising of 1857: Causes Spread of the Uprisings, Nature and aftermath.</p> <p>UNIT-II. Economic Changes: Agriculture, British commercial policies and the impact on the trade Balance. . Destruction of indigenous industries; the growth of modern industry; the drain Theory.</p>
SEPTEMBER	<p>UNIT -III: Growth of Education and Political Organization: New education; Rise of the middle Classes; Socio Religious Movements : Brahma Samaj, Arya Samaj, Rama Krishna Mission, Prarthna Samaj, Theosophical Society, Aligarh Movement.</p> <p>Early Political Associations and Emergence of Revolutionary Terrorism: Early Political Association and Indian National Congress; Swadeshi Movement, Partition of Bengal and its impact; Revolutionary Terrorism in Bengal, Maharashtra and the Punjab, Impact on the National Movement.</p> <p>The Phase of Non-Co-operation: Emergence of Gandhi; the Jallianwala Bagh Massacre and its impact; Khilafat agitation; the Non-cooperation Movement; Withdrawal and impact; the Swarajists; The Simon Commission; The Phase of Civil Disobedience :</p> <p>The programme and the course of the Civil Disobedience Movement, the Round Table Conferences; Communal Award; Poona-pact; Withdrawal of Civil Disobedience Movement.</p>
OCTOBER & NOVEMBER	<p>Unit -IV . Constitutional Development: The Minto-Morley Reforms of 1909, the Act of 1919 and Dyarchy; Government of India Act, 1935 and Provincial Autonomy.</p> <p>Towards Partition and Independence: Growth of communal politics; Lahore Resolution, Cripps proposals; Quit India Movement; the INA Trials; Cabinet Mission and Towards Independence.</p>

Prescribed Book:-

Name- History of Punjab

Author-A.C.Arora

Publisher-Pradeep

SEMESTER–3rd
Subject-HISTORY HONOURS
Paper- AKBAR
Option ii

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus), two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	UNIT- 1. Sources ,Bairam Khan Regency 1555-68
SEPTEMBER	UNIT-2. Conflict with the Nobility 1560-67 UNIT- 3. Expansion Of the Empire in North; Akbar's Deccan policy UNIT-4. The Din-i Ilahi and Akbar's Religious policy
OCTOBER & NOVEMBER	UNIT –5. The land Revenue Administration of Akbar; The Mansabdari System UNIT-6 The Jagirdari System UNIT-7. The Central Government, The provincial and Local Administration. UNIT –8. Patronage of literature, Art and Architecture.

Prescribed Book:-

Name- Mughal India

Author-Satish Chandra

Publisher -Har Anand Publication

B.A. 3rd Semester
Subject: PHYSICAL EDUCATION

Pattern of Question Paper- Question paper will be divided into four sections i.e A, B, C, &D consisting of 8 questions carrying 12 marks each. Each Section consists of two questions from the respective sections of the syllabus. The candidates are required to attempt 5 questions in all selecting one question from each of the section. The fifth question can be attempted from any section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<ol style="list-style-type: none">1. Meaning of Learning Nature of skill Learning and laws of Learning2. Learning curves3. Motivation in physical education4. Play meaning and theory5. Discus throw (practical)
SEPTEMBER	<ol style="list-style-type: none">6. Psychological factor effecting sports performance i.e. tension, anxiety, aggression, stress7. Psychological characteristics of the adolescent in sports situations8. Transfer of training its application in sports situation9. Growth and development during childhood10. Track (practical)
OCTOBER & NOVEMBER	<ol style="list-style-type: none">11. Causes of poor performance in India12. Sports and economy Sports and socialization Integration through sports National andInternational13. Sports politics and their relationship15. Football (1 practical)

Prescribed Book:-

Name: Health Physical Education and Sports

Author name: Atwal&Kansal

Publication: AP Publishers

B.A. SEMESTER-3rd
Subject-MUSIC VOCAL
Theory- 50 marks
Practical- 50 marks

Pattern of Question Paper-There will be eight questions of equal marks (Specified in the syllabus) for theory paper, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

MONTH WISE DIVISION	SYLLABUS UNITISATION
JULY & AUGUST	<p>Theory – 1.Description and explanation of musical terms - BolAlap,Bol-Bant,UpajAlsp 2.Description and notation of Ektaal ,Sultal 3.Tanpura and SahayakNaad 4.Description and notation of Raga Bhimplasi</p> <p>Practical - 1.Alankar in KafiThataon Harmonium 2.Practice of Ektaal on hand with single and double 3.Lakshan Geetin Raga Bhimplasi 4.Fast Khayal in Raga Bhimplasi with alapand Tan</p>
SEPTEMBER	<p>Theory- 1.Life sketches -Bhai Samund Singh and Bade Gulam Ali khan 2.Kirtan Chownkies used in GurmatSangeet 3.Historical development of Indian Music (14thto17th) 4.Description and notation of Raga VarindavaniSarang</p> <p>Practical – 1.Practice of slow khayal in Raga Varindavani Sarang 2.Practice of Sultal on hand with single and double 3.Folk dhun on harmonium</p>
OCTOBER & NOVEMBER	<p>Theory – 1.Varities of Tanas 2.Description and notation of RupakTala Description and notation of Raga Desh</p> <p>Practical - 1.Fast Khayal in raga Desh with alap and tana 2.Rupak Tala on Tabla Non detailed Raga -Dhanashri, Sorath ,Madhmaad Sarang</p>

Prescribed Book:-

Name- Sangeet Roop -2
 Author- Dr.DavinderKaur
 Publisher-

B.A. / B.Sc. (Semester – III)
Subject: MATHEMATICS
Paper: ANALYSIS (Paper – I)

Pattern of Question Paper: There will be eight questions of equal marks (as specified in the syllabus), two in each of four sections (A – D). Questions may be subdivided into parts (not exceeding four questions). Candidates are required to attempt 5 questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Month wise Division	Syllabus Unitization
JULY & AUGUST	SECTION–A Definition of a sequence. Theorems on limits of sequences. Bounded and monotonic sequences. Cauchy's convergence criterion. SECTION–B Series of non-negative terms. Comparison tests. Cauchy's integral test. Ratio test.
SEPTEMBER	SECTION–B Cauchy's root test. Raabe's test, logarithmic test. De Morgan's and Bertrand's test, Kummer's test, Cauchy condensation test, Gauss test, Alternating series. Leibnitz's test. Absolute and conditional convergence. SECTION–C Partitions, Upper and lower sums. Upper and lower integrals, Riemann integrability.
OCTOBER & NOVEMBER	SECTION–C Conditions of existence of Riemann integrability of continuous functions and of monotone functions. Algebra of integrable functions. SECTION–D Improper integrals and statements of their conditions of existence. Test of the convergence of improper integral, Beta and Gamma functions.

Prescribed book:

1. Analysis
 By D. R. Sharma, Dr. Swaranjit Kaur & Gagandeep
 Sharma Publications

B.A. / B.Sc. (Semester – III)
Subject: MATHEMATICS
Paper: ANALYTICAL GEOMETRY (Paper – II)

Pattern of Question Paper: There will be eight questions of equal marks (as specified in the syllabus), two in each of four sections (A – D). Questions may be subdivided into parts (not exceeding four questions). Candidates are required to attempt 5 questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Month wise Division	Syllabus Unitization
JULY & AUGUST	<p>SECTION–A Transformation of axes, shifting of origin, Rotation of axes in two dimension and three dimensions, The invariants, Joint equation of pair of straight lines, equations of bisectors.</p> <p>SECTION–B Parabola and its properties. Tangents and normal's, Pole and polar, pair of tangents at a point,</p>
SEPTEMBER	<p>SECTION–B Chord of contact, equation of the chord in terms of mid-point and diameter of conic.</p> <p>SECTION–D Intersection of three planes, condition for three planes to intersect in a point or along a line or to form a prism, Sphere: Section of a sphere by a plane, spheres of a given circle. Intersection of a line and a sphere. Tangent line, tangent plane, power of a point w.r.t. a sphere, radical planes.</p>
OCTOBER & NOVEMBER	<p>SECTION–C Ellipse and hyperbola with their properties, Tangents and normals, Pole and polar, pair of tangents at a point, Chord of contact, Identifications of curves represented by second degree equation (including pair of lines).</p>

Prescribed book:

Analytical Geometry
 By D. R. Sharma, Manbir Kaur & Harjit Singh
 Sharma Publications