

(2021 Batch onwards)

G 101 OE1.3

Reg. No:

--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)
Mangaluru

B.A. Semester III – Degree Examination
November/December - 2023

HISTORY (OPEN ELECTIVE)

FREEDOM MOVEMENT IN KARNATAKA (1800 to 1947)

Time: 2½ Hours

Max. Marks: 60

Note : Answer all questions to the point without exceeding the maximum limit of pages.

ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಪುಟದ ಮಿತಿಯನ್ನು ಮೀರದಂತೆ ಸಮರ್ಪಕವಾಗಿ ಉತ್ತರಿಸಿ.

SECTION - A

I Answer any TWO of the following in 3 pages each. (15×2=30)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಮೂರು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

1. Describe armed rebellion or uprising that occurred in Karnataka during the colonial period, including its objectives, tactics, and outcomes.

ವಸಾಹತುಶಾಹಿ ಅವಧಿಯಲ್ಲಿ ಕರ್ನಾಟಕದಲ್ಲಿ ಸಂಭವಿಸಿದ ಸಶಸ್ತ್ರ ದಂಗೆಯನ್ನು ಅದರ ಉದ್ದೇಶಗಳು, ತಂತ್ರಗಳು ಮತ್ತು ಫಲಿತಾಂಶಗಳನ್ನು ವಿವರಿಸಿ.

2. Can you explain the socio-economic context in Karnataka that led to the emergence of Nationalism?

ರಾಷ್ಟ್ರೀಯತೆಯ ಹೊರಹೊಮ್ಮುವಿಕೆಗೆ ಕಾರಣವಾದ ಕರ್ನಾಟಕದ ಸಾಮಾಜಿಕ-ಆರ್ಥಿಕ ಸಂದರ್ಭವನ್ನು ನೀವು ವಿವರಿಸಬಹುದೇ?

3. Explain the establishment of responsible government in Princely State of Mysore.

ಮೈಸೂರು ಸಂಸ್ಥಾನದಲ್ಲಿ ಜವಾಬ್ದಾರಿಯುತ ಸರ್ಕಾರದ ಸ್ಥಾಪನೆಯನ್ನು ವಿವರಿಸಿ.

Section - B

II Answer any THREE of the following in a page each. (3×5=15)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ 3 ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

1. Discuss the influence of regional factors and the unique geographic characteristics of the Kodagu Revolt of 1837.

ಪ್ರಾದೇಶಿಕ ಅಂಶಗಳ ಪ್ರಭಾವ ಮತ್ತು 1837ರ ಕೊಡಗು ದಂಗೆಯ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಚರ್ಚಿಸಿ.

2. Explain the causes and results of Nagar revolt.

ನಗರ ದಂಗೆಯ ಕಾರಣಗಳು ಮತ್ತು ಫಲಿತಾಂಶಗಳನ್ನು ವಿವರಿಸಿ.

3. Reflect on the long-term impact of the Harijan Movement on the status and well-being of marginalized communities in Karnataka.

ಕರ್ನಾಟಕದ ಅಂಚಿನಲ್ಲಿರುವ ಸಮುದಾಯಗಳ ಸ್ಥಿತಿ ಮತ್ತು ಯೋಗಕ್ಷೇಮದ ಮೇಲೆ ಹರಿಜನ ಚಳುವಳಿಯ ದೀರ್ಘಕಾಲೀನ ಪ್ರಭಾವವನ್ನು ಪ್ರತಿಬಿಂಬಿಸಿ.

4. Give a brief note on Forest Satyagraha.

ಅರಣ್ಯ ಸತ್ಯಾಗ್ರಹದ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ನೀಡಿ.

5. Write a note on Hindustan Seva Dal.

ಹಿಂದೂಸ್ತಾನ್ ಸೇವಾದಳದ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Section-C

III Answer the following in 3-5 sentences each.

(5×3=15)

ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ 3-5 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. What were the main themes or issues discussed at the Belgaum Congress Session.
ಬೆಳಗಾವಿ ಕಾಂಗ್ರೆಸ್ ಅಧಿವೇಶನದಲ್ಲಿ ಚರ್ಚಿಸಲಾದ ಪ್ರಮುಖ ವಿಷಯಗಳು ಯಾವುವು?
2. Who were some prominent leaders of the Non-Cooperation Movement in Karnataka?
ಕರ್ನಾಟಕದಲ್ಲಿ ಅಸಹಕಾರ ಚಳವಳಿಯ ಕೆಲವು ಪ್ರಮುಖ ನಾಯಕರು ಯಾರು?
ಕರ್ನಾಟಕದ ವಿದುರಾಶ್ವತ ದುರಂತದ ಬಗ್ಗೆ ನಿಮಗೆಷ್ಟು ಗೊತ್ತು?
MANGALURU - 575 003
3. What do you know about Vidurashwatha Tragedy in Karnataka?
ಕರ್ನಾಟಕದ ವಿದುರಾಶ್ವತ ದುರಂತದ ಬಗ್ಗೆ ನಿಮಗೆಷ್ಟು ಗೊತ್ತು?
4. Who were the key leaders and figures in the first Congress ministry, and what roles did they play in the administration and governance of the princely state?
ಮೊದಲ ಕಾಂಗ್ರೆಸ್ ಮಂತ್ರಿ ಮಂಡಲದಲ್ಲಿ ಪ್ರಮುಖ ನಾಯಕರು ಯಾರು, ಮತ್ತು ರಾಜಪ್ರಭುತ್ವದ ಮತ್ತು ಆಡಳಿತದಲ್ಲಿ ಅವರು ಯಾವ ಪಾತ್ರಗಳನ್ನು ವಹಿಸಿದರು?
5. What were the major events or battles associated with Sangolli Rayanna's revolt against the British, and what were their outcomes?
ಬ್ರಿಟಿಷರ ವಿರುದ್ಧ ಸಂಗೊಳ್ಳಿ ರಾಯಣ್ಣನ ದಂಗೆಗೆ ಸಂಬಂಧಿಸಿದ ಪ್ರಮುಖ ಘಟನೆಗಳು ಯಾವುವು ಮತ್ತು ಅವುಗಳ ಫಲಿತಾಂಶಗಳೇನು?

--	--	--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)
Mangaluru

B.A. - SEMESTER III – Degree Examination
November/December - 2023
ECONOMICS – OPEN ELECTIVE
MONEY AND PUBLIC FINANCE

Time: 2½ Hours.

Max. Marks: 60

SECTION - A

I. Answer any FIVE of the following:

(5×2=10)

ಈ ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ.

1. Distinguish between money and near money.

ಹಣ ಮತ್ತು ನಿಕಟ ಹಣದ ನಡುವೆ ವ್ಯತ್ಯಾಸ ಏನು?

2. What is high-powered money?

ಅಧಿಕ ಶಕ್ತಿಯ ಹಣ ಎಂದರೇನು?

3. How do you explain value of money?

ಹಣದ ಮೌಲ್ಯವನ್ನು ನೀವು ಹೇಗೆ ವಿವರಿಸುತ್ತೀರಿ?

4. What is public good?

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

ಸಾರ್ವಜನಿಕ ಸರಕು ಎಂದರೇನು?

5. How do you explain positive externality?

ಧನಾತ್ಮಕ ಬಾಹ್ಯತೆಯನ್ನು ನೀವು ಹೇಗೆ ವಿವರಿಸುತ್ತೀರಿ?

6. Give the meaning of GST.

ಜಿ ಎಸ್ ಟಿ ಯ ಅರ್ಥವನ್ನು ಕೊಡಿ.

7. List out any two canons of public expenditure.

ಸಾರ್ವಜನಿಕ ವೆಚ್ಚದ ಯಾವುದಾದರೂ ಎರಡು ನಿಯಮಾವಳಿಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡಿರಿ.

8. What is debt redemption?

ಸಾಲ ವಿಮೋಚನೆ ಎಂದರೇನು?

SECTION - B

II. Answer any SIX of the following:

(6×5=30)

ಈ ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ:

9. Briefly explain the classifications of money.

ಹಣದ ವರ್ಗೀಕರಣಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

10. Write a note money supply.

ಹಣದ ಪೂರೈಕೆಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Contd...2

G 102 OE2.3

11. What is fisher's quantity theory of money? Explain.
ಫಿಷರ್ ಹಣದ ಪ್ರಮಾಣ ಸಿದ್ಧಾಂತ ಎಂದರೇನು? ವಿವರಿಸಿ.
12. Explain the nature and components of public finance.
ಸಾರ್ವಜನಿಕ ಹಣಕಾಸಿನ ಸ್ವಭಾವ ಮತ್ತು ಘಟಕಗಳನ್ನು ವಿವರಿಸಿ.
13. Write a note on market failure.
ಮಾರುಕಟ್ಟೆ ವಿಫಲತೆ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
14. Explain factors influencing taxable capacity.
ತೆರಿಗೆ ಸಾಮರ್ಥ್ಯದ ಮೇಲೆ ಪ್ರಭಾವ ಬೀರುವ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.
15. Briefly explain the wagners law of public expenditure.
ವ್ಯಾಗ್ನರ್ಸ್ ರವರ ಸಾರ್ವಜನಿಕ ವೆಚ್ಚದ ನಿಯಮವನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿರಿ.
16. What are the types of public debt? Explain.
ಸಾರ್ವಜನಿಕ ಸಾಲದ ವಿಧಗಳೇನು? ವಿವರಿಸಿ.
17. Briefly explain objectives of fiscal policy.
ಹಣಕಾಸು ನೀತಿಯ ಉದ್ದೇಶಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿರಿ.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

SECTION - C

III. Answer any TWO of the following:

(2×10=20)

ಈ ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ:

18. Explain Cambridge equation theory of money.
ಕೆಂಬ್ರಿಡ್ಜ್ ಸಮೀಕರಣ ಸಿದ್ಧಾಂತವನ್ನು ವಿವರಿಸಿ.
19. What is public finance? Explain the features of public finance.
ಸಾರ್ವಜನಿಕ ಹಣಕಾಸು ಎಂದರೇನು? ಅದರ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿರಿ.
20. Explain maximum social advantage theory.
ಗರಿಷ್ಠ ಸಾಮಾಜಿಕ ಅನುಕೂಲ ಸಿದ್ಧಾಂತ ವನ್ನು ವಿವರಿಸಿ.
21. Explain the classification of public expenditure.
ಸಾರ್ವಜನಿಕ ವ್ಯಯದ ವರ್ಗೀಕರಣವನ್ನು ವಿವರಿಸಿ.

(2021 Batch Onwards)

G 103 OE1.3

Reg. No:

St Aloysius College (Autonomous)
Mangaluru

B.A. Semester III – Degree Examination
November/December - 2023

POLITICAL SCIENCE – OPEN ELECTIVE
UNDERSTANDING GANDHI

Time: 2½ Hours

Max. Marks: 60

SECTION - A

Choose the correct answer from the choices given at the end of each question and write the correct answer. (10x1=10)

Answer ALL the questions compulsorily.

ಪ್ರತಿ ಪ್ರಶ್ನೆಯ ಕೊನೆಯಲ್ಲಿ ನೀಡಲಾದ ಆಯ್ಕೆಗಳಿಂದ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ ಬರೆಯಿರಿ.
ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಕಡ್ಡಾಯವಾಗಿ ಉತ್ತರಿಸಿ.

1. We commemorate International Day of violence on the birthday of
a) Gandhiji
b) Kofi Annan
c) Ambedkar
d) None of the above
ಇವರ ಜನ್ಮ ದಿನದಂದು ನಾವು ಅಂತರರಾಷ್ಟ್ರೀಯ ಹಿಂಸಾಚಾರದ ದಿನವನ್ನು ಸ್ಮರಿಸುತ್ತೇವೆ
ಅ) ಗಾಂಧೀಜಿ
ಆ) ಕೋಫಿ ಅನ್ನನ್
ಇ) ಅಂಬೇಡ್ಕರ್
ಈ) ಮೇಲಿನವರು ಯಾರೂ ಅಲ್ಲ
2. Kheda satyagraha was held in the year
a) 1918
b) 1920
c) 1928
d) 1919
ಖೇದ ಸತ್ಯಾಗ್ರಹ ನಡೆದ ವರ್ಷ
ಅ) 1918
ಆ) 1920
ಇ) 1928
ಈ) 1919
3. Gandhi was invited to South Africa in 1893 to sort out the legal problem of
a) Sheikh Abdullah of Kashmir
b) Titumir of Bengal
c) Dada Abdullah of Gujarat
d) None of the above
ಯಾರ ಕಾನೂನು ಸಮಸ್ಯೆಯನ್ನು ಬಗೆಹರಿಸಲು 1893ರಲ್ಲಿ ಗಾಂಧಿಯನ್ನು ದಕ್ಷಿಣ ಆಫ್ರಿಕಾಕ್ಕೆ
ಆಹ್ವಾನಿಸಲಾಯಿತು?
ಅ) ಕಾಶ್ಮೀರದ ಶೇಕ್ ಅಬ್ದುಲ್ಲ
ಆ) ಬೆಂಗಾಲಿನ ಟಿಟುಮಿರ್
ಇ) ಗುಜರಾತಿನ ದಾದಾ ಅಬ್ದುಲ್ಲ
ಈ) ಮೇಲಿನವರು ಯಾರೂ ಅಲ್ಲ
4. Gandhiji's first active involvement in Indian freedom politics was at
a) The Champaran agitation
b) Ahmedabad Textile Mill strike
c) Kheda satyagraha
d) All the above
ಭಾರತದ ಸ್ವಾತಂತ್ರ್ಯ ರಾಜಕೀಯದಲ್ಲಿ ಗಾಂಧೀಜಿಯವರ ಮೊದಲ ಸಕ್ರಿಯ ಪಾಲ್ಗೊಳ್ಳುವಿಕೆ
ಅ) ಚಂಪಾರನ್ ಆಂದೋಲನ
ಆ) ಅಹಮದಾಬಾದ್ ಜವಳಿ ಕಾರ್ಖಾನೆಯ
ಪ್ರತಿಭಟನೆ
ಇ) ಕೇದಾ ಸತ್ಯಾಗ್ರಹ
ಈ) ಮೇಲಿನವು ಎಲ್ಲಾ
5. Who is the author of 'Unto this last'
a) John Ruskin
b) Nehru
c) Thoreau
d) Ruskin Bond
'Unto this last' ಪುಸ್ತಕ ಬರೆದವರು ಯಾರು?
ಅ) ಜಾನ್ ರಸ್ಕಿನ್
ಆ) ನೆಹರೂ
ಇ) ಥೋರಿಯನ್
ಈ) ರಸ್ಕಿನ್ ಬಾಂಡ್

Contd...2

6. Which of following is the essential principle of satyagraha?
 a) Infinite capacity for suffering b) truth
 c) Non-violence d) All the above
 ಸತ್ಯಾಗ್ರಹದ ಮೂಲಭೂತ ತತ್ವಗಳು ಈ ಕೆಳಗಿನಲ್ಲಿ ಯಾವುದು?
 ಅ) ಕಷ್ಟವನ್ನು ಎದುರಿಸಲು ಅನಂತ ಆ) ಸತ್ಯ
 ಸಾಮರ್ಥ್ಯ
 ಇ) ಅಹಿಂಸೆ ಈ) ಮೇಲಿನವು ಎಲ್ಲಾ
7. 'The story of my experiment with truth' was originally written by Gandhi in Gujarati. Who translated it into English?
 a) C.F Andrews b) Hermann Kallenbach
 c) Mahadev Desai d) None of the above
 'The story of my experiment with trust' ಮೂಲತಃ ಗಾಂಧೀಜಿಯವರು ಗುಜರಾತಿ ಭಾಷೆಯಲ್ಲಿ ಬರೆದಿದ್ದರು. ಅದನ್ನು ಇಂಗ್ಲಿಷ್ ಭಾಷೆಗೆ ಅನುವಾದಿಸಿದವರು ಯಾರು?
 ಆ) ಸಿ ಎಫ್ ಆಂಡ್ರ್ಯೂಸ್ ಆ) ಹರ್ಮನ್ ಕ್ಯಾಲೆನ್ ಬ್ಯಾಕ್
 ಇ) ಮಹಾದೇವ್ ದೆಸಾಯಿ ಈ) ಮೇಲಿನವರು ಯಾರೂ ಅಲ್ಲ
8. Who established the Natal Indian Congress (NIC)?
 a) David Thoreau b) Jawaharlal Nehru
 c) Vallabhbhai Patel d) None of the above
 ನಟಾಲ್ ಇಂಡಿಯನ್ ಕಾಂಗ್ರೆಸ್ (NIC) ಅನ್ನು ಯಾರು ಸ್ಥಾಪಿಸಿದರು?
 ಅ) ಡೇವಿಡ್ ಥೋರೋ ಆ) ಜವಾಹರಲಾಲ್ ನೆಹರೂ
 ಇ) ವಲಭಬಾಯಿ ಪಟೇಲ್ ಈ) ಮೇಲಿನವರು ಯಾರೂ ಅಲ್ಲ
9. When did Gandhi return to India from South Africa?
 a) 1915 b) 1909
 c) 1918 d) 1919
 ದಕ್ಷಿಣ ಆಫ್ರಿಕಾದಿಂದ ಗಾಂಧೀಜಿ ಭಾರತಕ್ಕೆ ಯಾವಾಗ ಹಿಂದಿರುಗಿದರು?
 ಅ) 1915 ಆ) 1909
 ಇ) 1918 ಈ) 1919
10. Gandhiji was arrested by the British Government for the first time for
 a) Campaigning b) Sedition
 c) Revolt d) None of the above
 ಗಾಂಧೀಜಿ ಅವರನ್ನು ಮೊದಲ ಬಾರಿಗೆ ಬ್ರಿಟಿಷ್ ಸರ್ಕಾರ ಬಂಧಿಸಿದ್ದು
 ಅ) ಪ್ರಚಾರ ಆ) ದೇಶದ್ರೋಹ
 ಇ) ದಂಗೆ ಈ) ಮೇಲಿನವು ಯಾವುದೂ ಅಲ್ಲ

SECTION - B

Answer any TWO Questions. Answer the following in not more than 500 words. (2x10=20)

ಯಾವುದೇ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ. ಕೆಳಗಿನವುಗಳಿಗೆ 500 ಪದಗಳಿಗಿಂತ ಹೆಚ್ಚಿಲ್ಲದಂತೆ ಉತ್ತರಿಸಿ.

11. Explain the journey of Gandhi in South Africa. What are the political questions Gandhi addressed there?
 ದಕ್ಷಿಣ ಆಫ್ರಿಕಾದಲ್ಲಿ ಗಾಂಧಿಯವರ ಪ್ರಯಾಣವನ್ನು ವಿವರಿಸಿರಿ. ಅವರು ಅಲ್ಲಿ ಎದುರಿಸಿದ ರಾಜಕೀಯ ಪ್ರಶ್ನೆಗಳೇನು?
12. Examine Gandhi's views on religion and politics.
 ಧರ್ಮ ಮತ್ತು ರಾಜಕೀಯದ ಬಗ್ಗೆ ಗಾಂಧಿಯವರ ಅಭಿಪ್ರಾಯಗಳನ್ನು ಬರೆಯಿರಿ.
13. Examine the techniques of satyagraha.
 ಸತ್ಯಾಗ್ರಹದ ತಂತ್ರಗಳನ್ನು ವಿವರಿಸಿ.

SECTION - C

Answer any **TWO** of the following questions in not more than 800 words. (2x15=30)

ಯಾವುದೇ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ 800 ಪದಗಳಿಗಿಂತ ಹೆಚ್ಚಿಲ್ಲದಂತೆ ಉತ್ತರಿಸಿ.

14. Explain Gandhiji as a political strategist.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

ಗಾಂಧೀಜಿ ಒಬ್ಬ ರಾಜಕೀಯ ತಂತ್ರಗಾರ ಎಂಬುದನ್ನು ವಿವರಿಸಿರಿ.

15. Examine Gandhiji's views on Hindu-Muslim unity.

ಬಗ್ಗೆ ಗಾಂಧೀಜಿಯವರ ಅಭಿಪ್ರಾಯಗಳನ್ನು ಬರೆಯಿರಿ.

16. Write a review on the film 'Gandhi' (1982).

"ಗಾಂಧಿ" ಚಿತ್ರದ ಬಗ್ಗೆ ವಿಮರ್ಶೆಯನ್ನು ಬರೆಯಿರಿ.

(2021 batch onwards)

G 104 OE1.3

Reg. No:

--	--	--	--	--	--

**St Aloysius College (Autonomous)
Mangaluru**

B.A. Semester III – Degree Examination

November/December - 2023

SOCIOLOGY - OPEN ELECTIVE

SOCIOLOGY OF TOURISM MANAGEMENT

Time: 2½ Hours

Max. Marks: 60

PART -A

Answer any **FIVE** Questions in 2-3 sentences each.

(5x2=10)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ 2-3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

**ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003**

1. What is eco-tourism?
ಪರಿಸರ ಪ್ರವಾಸೋದ್ಯಮ ಎಂದರೇನು?
2. List any two effects of religious tourism.
ಧಾರ್ಮಿಕ ಪ್ರವಾಸೋದ್ಯಮದ ಯಾವುದೇ ಎರಡು ಪರಿಣಾಮಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡಿ.
3. What is meant by tourism system?
ಪ್ರವಾಸೋದ್ಯಮ ವ್ಯವಸ್ಥೆ ಎಂದರೆ ಏನು?
4. Give two examples for extrinsic motivation.
ಬಾಹ್ಯ ಪ್ರೇರಣೆಗೆ ಎರಡು ಉದಾಹರಣೆಗಳನ್ನು ನೀಡಿ.
5. Mention any two roles of a tourist.
ಪ್ರವಾಸಿಗರ ಯಾವುದಾದರೂ ಎರಡು ಪಾತ್ರಗಳನ್ನು ತಿಳಿಸಿ.
6. What is the meaning of serviced accommodation?
ಸರ್ವಿಸ್ಡ್ ಸೌಕರ್ಯಗಳ ಅರ್ಥವೇನು?
7. What is meant by tourism marketing?
ಪ್ರವಾಸೋದ್ಯಮ ಮಾರ್ಕೆಟಿಂಗ್ ಎಂದರೆ ಏನು?
8. Expand ICT.
ICT ವಿಸ್ತರಿಸಿ.

PART - B

Answer any **SIX** of the following Questions.

(6x5=30)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ.

9. Explain the concept of leisure and recreation.
ವಿರಾಮ ಮತ್ತು ಮನರಂಜನೆಯ ಪರಿಕಲ್ಪನೆಯನ್ನು ವಿವರಿಸಿ.
10. Write a note on sociology of tourism.
ಪ್ರವಾಸೋದ್ಯಮದ ಸಮಾಜಶಾಸ್ತ್ರದ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
11. Assess the key aspects of health tourism.
ಆರೋಗ್ಯ ಪ್ರವಾಸೋದ್ಯಮದ ಪ್ರಮುಖ ಅಂಶಗಳನ್ನು ನಿರ್ಣಯಿಸಿ.
12. Describe motivation and role of tourist.
ಪ್ರವಾಸಿಗರ ಪ್ರೇರಣೆ ಮತ್ತು ಪಾತ್ರವನ್ನು ವಿವರಿಸಿ.

Contd...2

13. What are positive and negative impacts of tourism on host places?
ಆತಿಥೇಯ ಸ್ಥಳಗಳ ಮೇಲೆ ಪ್ರವಾಸೋದ್ಯಮದ ಧನಾತ್ಮಕ ಮತ್ತು ಋಣಾತ್ಮಕ ಪರಿಣಾಮಗಳು ಯಾವುವು?
14. Examine sustainable tourism.
ಸುಸ್ಥಿರ ಪ್ರವಾಸೋದ್ಯಮವನ್ನು ಪರಿಶೀಲಿಸಿ.
15. Explain the importance of understanding and analysing tourism demand at the market level.
ಮಾರುಕಟ್ಟೆ ಮಟ್ಟದಲ್ಲಿ ಪ್ರವಾಸೋದ್ಯಮ ಬೇಡಿಕೆಯನ್ನು ಅರ್ಥಮಾಡಿಕೊಳ್ಳುವ ಮತ್ತು ವಿಶ್ಲೇಷಿಸುವ ಪ್ರಾಮುಖ್ಯತೆಯನ್ನು ವಿವರಿಸಿ.
16. Contrast the role of intermediaries in the tourism industry.
ಪ್ರವಾಸೋದ್ಯಮದಲ್ಲಿ ಮಧ್ಯವರ್ತಿಗಳ ಪಾತ್ರವನ್ನು ವ್ಯತಿರಿಕ್ತಗೊಳಿಸಿ.
17. Write a note on e-tourism.
ಇ-ಟೂರಿಸಂ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003.

PART - C

Answer any **TWO** of the following.

(2x10=20)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ.

18. Assess tourist gaze.
ಪ್ರವಾಸಿ ನೋಟವನ್ನು ಮೌಲ್ಯಮಾಪನ ಮಾಡಿ.
19. Analyse the development and structure of tourist system.
ಪ್ರವಾಸಿ ವ್ಯವಸ್ಥೆಯ ಅಭಿವೃದ್ಧಿ ಮತ್ತು ರಚನೆಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ.
20. Analyse sustainability of tourism in modern times.
ಆಧುನಿಕ ಕಾಲದಲ್ಲಿ ಪ್ರವಾಸೋದ್ಯಮದ ಸುಸ್ಥಿರತೆಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ.
21. Elaborate the role of information technology in tourism.
ಪ್ರವಾಸೋದ್ಯಮದಲ್ಲಿ ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನದ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿ.

G 105 OE1.3

(2021 Batch onwards)

Reg. No:

--	--	--	--	--	--

St Aloysius College (Autonomous)

Mangaluru

B.Sc | B.A. Semester III – Degree Examination
November/December – 2023

JOURNALISM – Open Elective
Feature Writing and Freelancing

Time: 2 ½ Hours

Max. Marks: 60

I Answer any Five of the following

(5X10=50)

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

1. Define feature writing and its characteristics
ನುಡಿಚಿತ್ರ ಬರವಣಿಗೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ. ಹಾಗೂ ಅದರ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
2. How do environmental features contribute to raising awareness about- ecological issues?
ಪರಿಸರ ಸಮಸ್ಯೆಗಳ ಬಗ್ಗೆ ಜಾಗೃತಿ ಮೂಡಿಸಲು ಪರಿಸರ ನುಡಿಚಿತ್ರ ಹೇಗೆ ಕೊಡುಗೆ ನೀಡುತ್ತದೆ?
3. Examine the role of self-motivation and discipline in the success of a freelancer.
ಹವ್ಯಾಸಿ ಬರಹಗಾರನ ಯಶಸ್ಸಿಗೆ ಸ್ವಯಂ ಪ್ರೇರಣೆ ಹಾಗೂ ಶಿಸ್ತಿನ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿ.
4. Evaluate the impact of technological advancements on the demand for freelance multimedia content creators in the media industry.
ಹವ್ಯಾಸಿ ಬಹು ಮಾಧ್ಯಮ ಬರಹಗಾರರ ಬೇಡಿಕೆಯ ಮೇಲೆ ತಾಂತ್ರಿಕ ಪ್ರಗತಿಯು ಹೇಗೆ ಪರಿಣಾಮ ಬೀರುತ್ತದೆ.
ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003
5. Sketch out characteristics between personality profile and business profile
ವ್ಯಕ್ತಿ ಚಿತ್ರ ಹಾಗೂ ವ್ಯವಹಾರಿಕ ಚಿತ್ರಗಳ ನಡುವಿನ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
6. Evaluate the challenges and opportunities in monetizing content through advertising, sponsorships or subscription models
ಜಾಹಿರಾತು ಪ್ರಾಯೋಜಕತ್ವ ಹಾಗೂ ಚಂದಾದಾರಿಕೆ ಮಾದರಿಗಳ ಮೂಲಕ ವಸ್ತು ವಿಷಯ ಗಳಿಕೆಯಲ್ಲಿನ ಸವಾಲುಗಳನ್ನು ಹಾಗೂ ಅವಕಾಶಗಳನ್ನು ಚರ್ಚಿಸಿ.
7. How does social media help get recognition for feature writers than the traditional media?
ಸಾಂಪ್ರದಾಯಿಕ ಮಾಧ್ಯಮಕ್ಕಿಂತ ನುಡಿಚಿತ್ರ ಬರಹಗಾರರಿಗೆ ಮನ್ನಣೆಯನ್ನು ಪಡೆಯಲು ಸಾಮಾಜಿಕ ಮಾಧ್ಯಮವು ಹೇಗೆ ಸಹಾಯ ಮಾಡುತ್ತದೆ?

II Write short notes

(4X 2½=10)

ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

1. Medium Based Feature
ಮಾಧ್ಯಮ ಆಧಾರಿತ ನುಡಿಚಿತ್ರ
2. Content Writing
ವಿಷಯ ಬರವಣಿಗೆ
3. Gig Work
ಗಿಗ್ ವರ್ಕ್
4. Blogging
ಬ್ಲಾಗಿಂಗ್

--	--	--	--	--	--

St Aloysius College (Autonomous) Mangaluru
B.A. Semester III – Degree Examination
November / December - 2023

ಕನ್ನಡ ಐಚ್ಛಿಕ – **III (ಪದವಿ ಮುಕ್ತ ಆಯ್ಕೆ ಕನ್ನಡ ಪತ್ರಿಕೆ)**

ಸಾಹಿತ್ಯ ಮತ್ತು ಜನಪದ: ಸೃಜನಶೀಲ ಅನುಸಂಧಾನ

Time: 2½ hrs.

Max Marks: 60

- I. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (7x3=21)
1. ಕ್ರಿಯಾವಿಧಿಗಳ ಮೂಲ ನಮಗೆ ಎಲ್ಲಿ ಕಾಣಿಸಿಗುತ್ತದೆ? ನಮ್ಮ ಸುತ್ತಮುತ್ತಲಿನ ಕ್ರಿಯಾವಿಧಿಗಳನ್ನು ವಿವರಿಸಿರಿ
 What is the base of Rituals? Explain some Ritual practices from our surrounding
 2. ಜನಪದ ಗೀತೆಗಳು ಕೇವಲ ಗೀತೆಗಳಲ್ಲ, ಜನರ ಬದುಕಿನ ಭಾಗ ಎಂಬುದನ್ನು ವಿವರಿಸಿರಿ
 Folk songs are not just songs but they are part of people's lives. Explain
 3. ಜನಪದ ಕಲೆಗಳು ಎಂದರೇನು? ವಿವಿಧ ಪ್ರದರ್ಶನ ಕಲೆಗಳನ್ನು ಹೆಸರಿಸಿ
 What are Folk Arts? Name the various performing arts
 4. ಜಾನಪದ ಎಂದರೇನು? ಲಕ್ಷಣಗಳನ್ನು ಹೆಸರಿಸಿ
 What do you mean by Folklore? Explain the characteristics.
 5. ಭಾರತದ ವಿವಿಧ ಬುಡಕಟ್ಟುಗಳ ವಿಶೇಷತೆ ಏನು?
 ST ALOYSIUS COLLEGE LIBRARY
 MANGALURU - 575 003
 What is the specialty about the different Tribes of India?
 6. ಜನಪದ ಕಥೆಗಳು ಕೊಪುಪ ವಿಶೇಷ ರಂಜನ ಏನು? ವಿವರಿಸಿರಿ
 What is the special entertainment that Folk Tales provide? Explain
- II. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3x3=09)
7. ಪಾದ್ಧನಗಳು ಎಂದರೇನು? ಈ ಸಂಸ್ಕೃತಿ ಎಲ್ಲಿ ಕಂಡುಬರುತ್ತದೆ?
 What are Paddanas? Where this culture is found?
 8. ಸಿದ್ದಿ ಸಮುದಾಯಗಳಲ್ಲಾದ ವಿವಿಧ ಅವಸ್ಥಾಂತರಗಳನ್ನು ವಿವರಿಸಿರಿ
 Explain the various changes in the Siddi communities
 9. 'ಕ್ರಿಯಾವಿಧಿಗಳಲ್ಲಿ ರಂಗಭೂಮಿಯ ಅಂಶಗಳಿವೆ.' ಈ ಮಾತನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ
 'There are elements of theater in the rituals act.' Analyze this sentence
 10. ಜನಪದ ಸಾಹಿತ್ಯವು ಮೌಖಿಕತೆಯಿಂದ ಲಿಖಿತವಾಗಬೇಕೆ? ಯಾಕೆ?
 Should folklore be transformed from oral to written medium? Why?
 11. ಲೋಣ್ಣೆ ಪಾತ್ರವನ್ನು ವಿಶ್ಲೇಷಣೆ ಮಾಡಿ
 Analyze the character of Tonni.
 12. 'ದೇವರ ಹೆಣ' ಕಥೆಯಲ್ಲಿ ಕಾಣಿಸಿರುವ ಜನಪದ ಆಚರಣೆಗಳು ಏನು?
 What are the Folk Rituals seen in the story Devara Hena?

Contd....2

III. ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ (4x1=04)

13. ನಿಮ್ಮ ಸುತ್ತಮುತ್ತ ಇರುವ ಯಾವುದಾದರೂ ಬುಡಕಟ್ಟು ಸಮುದಾಯದ ಕುರಿತು ಬರೆಯಿರಿ

Write a note on any one Tribal community.

14. ಕರ್ನಾಟಕದ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರದರ್ಶನ ಕಲೆಯನ್ನು ವಿವರಿಸಿ

Describe any performing arts of Karnataka

IV. ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ (2x2=04)

15. ಭೂತಾರಾಧನೆಯಲ್ಲಿ ಯಾವೆಲ್ಲಾ ಸಂಗೀತ ವಾದ್ಯಗಳನ್ನು ಬಳಸುತ್ತಾರೆ?

List the instruments used in Bhoota Araadhane

16. ನಿಮ್ಮ ಸಮುದಾಯದ ಅಥವಾ ಸಹಪಾಠಿಯಿಂದ ಸಂಗ್ರಹಿಸಿದ ಯಾವುದಾದರೂ ಒಂದು ಜನಪದ ಕಾವ್ಯವನ್ನು ಬರೆದು ವಿವರಣೆ ನೀಡಿ

Write and explain about any folk song from your community as from your collection.

17. ಕೊರಗರ ನೃತ್ಯ ಪ್ರಕಾರವನ್ನು ವಿವರಿಸಿ

Explain the dance form of Koraga Community

18. ತಾಳಮದ್ದಳೆ ಎಂದರೇನು?

What do you mean by Talamadalle?

V. ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ (3x2=06)

19. ಗುರಿಕಾರ Gurikara

20. ಜನಪದ ಕಥೆಗಳು Folktales

21. ಕುಂ.ವೀರಭದ್ರಪ್ಪ Kum. Veerabadrappa

ST. LOYD'S COLLEGE LIBRARY
MANGALURU - 575 003

22. ಕುಡುಬಿ ಜನಾಂಗ Kudubi Community

ಆ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ (3x2=06)

23. ಜನಪದ ಆಹಾರ Folk Food

24. ಕೊರಗ ಭಾಷೆ Language of Koraga Community

25. ವೊವಿಯೊ Voviyo

26. ಕಂಗೀಲು Kangilu

- VI. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ (1x10=10)
27. ಯಾವುದಾದರೂ ಒಂದು ಯಕ್ಷಗಾನ ಮೇಳವನ್ನು ಹೆಸರಿಸಿರಿ
Name any one Yakshagana mela
28. ಶೈವ ಸಂಪ್ರದಾಯದ ಧಾರ್ಮಿಕ ವೀರ ನೃತ್ಯದ ಹೆಸರೇನು?
What is the religious dance form of Shaiva known as?
29. ಜನಪದ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಇತ್ತೀಚೆಗಿನ ಕುಲಪತಿ ಯಾರು?
Who is the recent Chancellor of Janapada University?
30. ಯಕ್ಷಗಾನದ ಪ್ರಸಾಧನ ಕೊಠಡಿಯನ್ನು ಏನೆಂದು ಕರೆಯುತ್ತಾರೆ?
What is the name of the green room called in Yakshagana?
31. ಯಾವುದಾದರೂ ಒಂದು ಜೋಗುಗಳ ಗೀತೆಯ ವಿರಡು ಸಾಲನ್ನು ಬರೆಯಿರಿ
Write one Lullaby (Minimum two lines)
32. ಭೂತಾರಾಧನೆಯಲ್ಲಿ ಕಂಡುಬರುವ ಯಾವುದಾದರೂ ಒಂದು ವಾದ್ಯವನ್ನು ಹೆಸರಿಸಿ
Name any instrument used in Bhoota Aaradhane.
33. ಗೋವಾದಲ್ಲಿ ಕುಡುಬಿ ಜನಾಂಗವನ್ನು ಏನೆಂದು ಕರೆಯಲಾಗುತ್ತಿತ್ತು?
What was the Kudubi community in Goa called as?
34. ಜೋಲು ಬಾರಿಸುವುದರಲ್ಲಿ ಪ್ರಖ್ಯಾತವಾದ ಕರಾವಳಿಯ ಬುಡಕಟ್ಟು ಸಮುದಾಯ ಯಾವುದು?
Which coastal tribal community is famous for drumming?
35. 'ದೇವರ ಹೆಣ' ಎಂದರೇನು?
What is the meaning of Devara Hena?
36. ಚಾಮ್ ನೃತ್ಯ ಪ್ರಕಾರವು ಭಾರತದ ಯಾವ ಭಾಗದಲ್ಲಿ ಕಾಣಿಸುತ್ತದೆ?
Cham dance form is found in which part of India?

(2021 batch onwards)

G 108 OE1.3

Reg. No.:

--	--	--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)
Mangaluru
BA Semester III – Degree Examination
November/December – 2023
English Major (Open Elective)

Phonetics of English Language

Time: 2½ hrs.

Max Marks: 60

- I. Answer any **FOUR** of the following in about 100 to 150 words. (4x5=20)
1. Draw the diagram of the diphthongs of English and illustrate them with an example each.
 2. Briefly explain the functions of the major organs of speech.
 3. Describe 'consonants.' Write three-term-labels of any 8 consonants of English.
 4. Draw the vowel quadrilateral and indicate the position of the back vowels. Give an example each.
 5. Explain the Fricatives and Nasals of English. Illustrate them with examples.
- II. Answer any **TEN** of the following in about 2-3 sentences each. (10X2=20)
1. Illustrate the plural allomorphs of English.
 2. Expand IPA and RP.
 3. Mention the Palato-Alveolar consonants of English. Illustrate them with examples.
 4. Identify the Diphthongs in the words, 'cheer' and 'nice.'
 5. Mention any four Vowel sounds with examples.
 6. Write three term labels for / t / and / j /
 7. What do you mean by Vowel Glides?
 8. Mention the nasal sounds with examples.
 9. Which are the semi-vowels of English? Give examples.
 10. Transcribe the words, 'Machine' and 'Passion.'
 11. Mention any TWO front vowels. Give an example each.
 12. Which are the central vowels of English? Illustrate any TWO of them with an example each.

Contd...2

III. Transcribe the following from IPA to Normal orthography. 20X½=10

- | | |
|--------------|----------------|
| 1. /kəʊd/ | 11. /dɪzɪz/ |
| 2. /bɪtə/ | 12. /sɜ:tən/ |
| 3. /kla:k/ | 13. /ʔrɪ:dəm/ |
| 4. /lʌŋtʃ/ | 14. /həʊtel/ |
| 5. /ækʃən/ | 15. /dʒɑ:ɡən/ |
| 6. /əʊfən/ | 16. /bɪznɪs/ |
| 7. /kəriə/ | 17. /kwɪzɪ:n/ |
| 8. /ɪskeɪp/ | 18. /pɛɪtʃrət/ |
| 9. /kəmpəʊz/ | 19. /prəʊz/ |
| 10. /debrɪ:/ | 20. /sɜ:kɪt/ |

IV Transcribe the following from Normal orthography to IPA 20X½=10

- | | |
|--------------|-------------|
| 1. Article | 11. Drama |
| 2. Bushes | 12. Police |
| 3. Castle | 13. Rhythm |
| 4. Handsome | 14. Success |
| 5. Image | 15. Vehicle |
| 6. Jungle | 16. Water |
| 7. Kitchen | 17. Society |
| 8. Lizard | 18. Vision |
| 9. Knowledge | 19. Receipt |
| 10. Machine | 20. Young |

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

(2021 batch onwards)

G 109 OE1.3

Reg. No.

--	--	--	--	--	--	--

St Aloysius College (Autonomous) Mangaluru

B.A. Semester III – Degree Examination

November /December - 2023

Communicative English (Open Elective)

Developing Professional Competency

Time: 2½ hrs.

Max Marks: 60

UNIT – I

I. A. Answer any TWO of the following questions in about 150 words. (5x2=10)

1. How to write a story? Explain with suitable examples.
2. Write a note on 'Narrative Essays' with a relevant example.
3. Write a note on the background and varieties of human-interest stories with suitable examples.

ST ALOYSIUS COLLEGE LIBRARY

MANGALURU - 575 003

B. Write a 'Narrative Essay' in about 350 words. (1X10=10)

A trip you will never forget

C. Complete the following story outline creatively. (1X5=5)

The mice very unhappy - the cat killed many of them - held a meeting to discuss how to get rid of the cat - various suggestions - no plan practicable. Then a young mouse suggested that a bell should be tied round the cat's neck - all welcomed the proposal with joy - an old mouse stood up - Will this work in the modern age?

UNIT – II

II. A. Answer any TWO of the following questions in about 150 words. (2X5=10)

1. What are the various types of features? Substantiate with examples.
2. Write a note on solicited and unsolicited job applications. Substantiate with examples.
3. What are the tips to enhance self-confidence during self-introduction? Elucidate.

B. Write a resume in response to the following job opening: (1X10=10)

Institution: Tech Innovators Inc., Qualification: Master's Degree in Computer Science, Experience: 4+ years in software development. Create a Resume for the above post of senior software developer.

C. Self-Introduction (1x5=5)

As a senior international student, introduce yourself and offer insights into the experiences and challenges faced by international students. Encourage cultural exchange and understanding among freshers.

UNIT – III

III. Answer any TWO of the following questions in about 150 words: (2x5=10)

1. Write a note on the role of the audience during the stage of 'Planning the Presentation.'
2. Write a note on 'Organising the Presentation.'
3. Write a note on 'Analyzing the Occasion' and 'Choosing a Suitable Title' during the stage of 'Planning the Presentation.'

(2021 batch onwards)

G 310 OE 1.3

Reg. No.:

--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)
Mangaluru
B.Com. Semester III- Degree Examination

November/December 2023

B.Com.- (Open Elective)
ENTREPRENEURIAL SKILLS

Time: 2½ hrs.

Max Marks: 60

SECTION - A

Answer any **FIVE** of the following.

(5x2=10)

1. Define women entrepreneurship.
2. State any two disadvantages of first movers in business.
3. Explain how technological advancements can create new entrepreneurship opportunities, providing two examples of industries that have seen opportunities emerge due to technology.
4. Define an entrepreneurial mission statement.
5. Name two government-sponsored programs or initiatives that offer financial support to entrepreneurs and small businesses.
6. Describe non-technical entrepreneurship and provide a real-world example of a non-technical entrepreneurial.
7. What are the key tax incentives offered by the government of India to promote entrepreneurship?

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

SECTION - B

Answer any **FOUR** of the following.

(4x5=20)

8. Explain the difference between venture capitalist and angel investor.
9. Write a note on any one successful women entrepreneur of India.
10. Write a note on start up India seed fund and ASPIRE.
11. Explain the different type of organisation an entrepreneur can choose for their business while starting the enterprise
12. Explain the significance of a well-structured business plan in entrepreneurial ventures.
13. Write a note on founder's agreement.

SECTION - C

Answer any **TWO** of the following.

(2x15=30)

14. "The decision to go public can offer numerous advantages and disadvantages to a business". Explain the above statement.
15. In a rapidly changing global landscape, entrepreneurship has gained immense importance. Discuss in detail the key characteristics that define successful entrepreneurs.
16. Explain the various internal and external sources of finance available to an entrepreneur in India.

G 320 OE1.3

Reg. No. :

--	--	--	--	--	--	--	--

**St Aloysius College.(Autonomous)
Mangaluru**

**B.Com. (International Finance) Semester III Degree Examination
November/December - 2023**

OPEN ELECTIVE

GOVERNANCE RISKS AND ETHICS

Time: 3 hrs.

Max Marks: 60

SECTION – A

Answer any FIVE of the following.

(5x2=10)

1. What are Quasi-autonomous non-governmental organisations?
2. Distinguish between rule based and principle based approach to Corporate Governance.
3. Write any two differences between Entrepreneur and Intrapreneur.
4. What is Diversity in Board?
5. Define Sustainable Development.
6. Define Enterprise Risk Management.
7. What is Risk Appetite?

**ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003**

SECTION - B

Answer any FOUR of the following.

(4x5=20)

8. Describe the characteristics of Corporate Governance.
9. Give a short note on Agency Costs.
10. Describe the board structure along with its merits and demerits.
11. Explain briefly any five types of risks faced by businesses.
12. Illustrate Mendelow's Model depicting Stakeholder mapping.
13. Rosey and Atkins (R&A) is one of the largest institutional investors in the country. Its investment strategy has traditionally been to own a minor shareholding in each of the top 200 companies on the stock exchange. The R&A shareholding is typically between 2% and 10% of each company and it manages funds for over two million clients (people and businesses who buy into share funds managed by R&A). Established over 200 years ago, R&A has always believed itself to be socially responsible. As part of its CSR strategy, R&A recently purchased 100% of the shares in a national house builder, Natcon, which it owned as a direct holding and did not include in its managed funds. Natcon, in turn, owned a large amount of land suitable for future low cost housing development. The R&A website reported that the reason for this purchase was to address the board's concerns over a shortage of affordable housing in the country which R&A felt they could help to address by having outright ownership of Natcon. R&A reported that there was a large social need

Contd...2

for affordable homes, and it hoped to create many hundreds of new low cost homes each year. Natcon wanted to build a large estate of new homes in the town of Housteads and the local government authority granted the required building permission. But the nearby University of Housteads strongly opposed it because it believed the new houses would ruin what was considered to be a panoramic view from the university campus which helped it to recruit staff and students to the university. Both the Housteads local government authority and the University of Housteads had money from reserves invested as clients (i.e. fund investors) with R&A, but with the university having a substantially smaller investment in the fund than the local government authority. The local government authority also owned shares in R&A, meaning that it was both an investor in funds and a shareholder in R&A. At a recent board meeting of R&A there was a discussion over whether or not such investments were appropriate and a dispute arose over whether R&A should be focusing more on its CSR strategy or strategic CSR. Some directors were unsure over the distinction and so asked you, as an external consultant, to prepare some briefing notes on the matter.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

Required: Prepare briefing notes that explain the difference between 'corporate social responsibility (CSR) strategy' and 'strategic CSR'.

SECTION – C

Answer any TWO of the following.

(2x15=30)

14. Explain the objectives and contents of Organisation for Economic Cooperation and Development (OECD) and International Corporate Governance Network (ICGN).
15. Discuss the significance of Triple Bottom Line accounting.
16. Illustrate the different roles of an Internal audit department.

(2022 Batch Onwards)

G 340 OE1.3

Reg. No. :

--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)

Mangaluru

Semester III – Degree Examination

November/December - 2023

B.Com. (Accounting and Tax) - OPEN ELECTIVE

CORPORATE LAW

Time: 2¹/₂ Hours

Max Marks: 60

SECTION – A

Answer any FIVE of the following.

(5x2=10)

1. A Pvt. Ltd. is a wholly owned subsidiary of AB Ltd., a public company incorporated under the Companies Act, 2013. A Pvt. Ltd. wanted to avail exemptions as provided to a Private Limited company. Is this possible?
2. Kamyia Ltd. is incorporated on 3rd January 2021. As per the Companies Act, 2013, what will be the financial year for the company?
3. Who can get the license under Section 8(1)?
4. What are the conditions in regard to the Experts' statement?
5. What are the preferential rights carried by preference share capital?
6. What are the provisions relating to information memorandum as contained in the Companies Act, 2013?
7. State whether the following are True or False and give reasons
 - a. A public company can issue either redeemable or irredeemable preference shares.
 - b. New shares cannot be issued to outsiders without prior offer to the existing shareholders.

**ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003**

SECTION - B

Answer any FOUR of the following.

(4x5=20)

8. Explain the provisions of the Companies Act, 2013 relating to the 'Service of Documents' on a company and the members of the company.
9. Yadav dairy products Private limited has registered its articles along with memorandum at the time of registration of company in December, 2014. Now directors of the company are of the view that provisions of articles regarding forfeiture of shares should not be changed except by a resolution of 90% majority. While as per section 14 of the Companies Act, 2013 articles may be changed by passing a special resolution only. One of the directors said that they cannot make a provision against the Companies Act. You are required to advise the company on this matter.
10. Discuss the provisions relating to private placement of shares under the companies act, 2013.

Contd...2

11. Green Ltd. was dealing in export of rubber to specified foreign countries. The company was willing to purchase rubber trees in A.P. State. The prospectus issued by the company contained some important extracts of the expert report and number of trees in A.P. State. The report was found untrue. Mr. Andrew purchased the shares of Green Ltd. on the basis of the expert's report published in the prospectus. However, he did not suffer any loss due to purchase of such shares. Will Mr. Andrew have any remedy against the company? State also the circumstances where an expert is not liable under the Companies Act, 2013
12. Can a company issue shares at a discount?
13. Discuss the conditions to issue shares with differential rights.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

SECTION - C

Answer any **TWO** of the following.

(2x15=30)

14. List out any 8 cases where a name is said to 'resemble' with respect to Restriction regarding names and use of words & expressions therein.
15. TDL Ltd., a public company is planning to bring a public issue of equity shares in June, 2018. The company has appointed underwriters for getting its shares subscribed. As a Chartered Accountant of the company appraise the Board of TDL Ltd about the provisions of payment of underwriter's commission as per Companies Act, 2013.
16. Explain:
- i) Voting rights of members holding equity share capital.
 - ii) Voting rights of members holding preference share capital.
 - iii) Conditions to be met for variation of shareholders' rights.

(2021 - Batch onwards)

G 401 OE3.3

Reg No :

--	--	--	--	--	--	--	--	--	--

**ST ALOYSIUS COLLEGE (AUTONOMOUS),
MANGALURU**

THIRD SEMESTER - DEGREE EXAMINATION

November/ December - 2023

B.B.A - OPEN ELECTIVE

MONEY AND PUBLIC FINANCE

Time : 2 ½ Hours

Max. Marks : 60

PART - A

Answer any **FIVE** of the following.

(5×2=10)

1. What is M3 money?
2. What is commodity money?
3. What is public goods?
4. What is GST?
5. What do you mean by capital levy?
6. What is fiscal policy?
7. What is taxable capacity?
8. What is public revenue?

**ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003**

PART – B

Answer any **FOUR** of the following.

(4×5=20)

9. Explain the three motives for Holding money as given by J.M .Keynes.
10. Write a note on money multiplier.
11. Distinguish between public and private finance
12. State different reasons for market failure.
13. Write a note on deficit financing.
14. State and explain different cannons of public expenditure.

PART – C

Answer any **TWO** of the following.

(2×15=30)

15. State and explain Fisher's Quantity Theory of Money. What are its criticisms?
16. Explain the causes for the growth of public expenditure.
17. Explain the principles of maximum social advantage theory.
18. Write a note on different functions of money.

(2021 Batch Onwards)

G 501 OE1.3

Reg. No. :

--	--	--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

November/December -2023

PHYSICS – OPEN ELECTIVE

FUNDAMENTALS OF OPTICS AND ELECTRICITY

Time: 2½ hrs.

Max Marks: 60

SECTION – A

Answer any FOUR of the following.

(4x2=8)

1. a) Explain how critical angle is related to the phenomenon of total internal reflection.
- b) What is a simple microscope? Explain its primary function.
- c) Write lens makers formula and explain the terms.
- d) What are single mode optic fibers?
- e) State and explain Ohm's law.
- f) Define electrical conductivity of a conductor. Write its unit.

SECTION – B

Answer any ONE FULL QUESTION from each unit.

(4x10=40)

UNIT-I

- 2.a) Using Snell's law discuss how the angle of refraction depends on the angle of incidence, refractive index and wavelength of light used. (6)
- b) Define refractive index and explain how it is calculated. Give an example to show that in higher refractive index material light propagates slowly. (4)
- 3.a) Discuss the practical applications of refractive index in various fields. (6)
- b) What are convex mirrors? Where are they used? (4)

UNIT-II

- 4.a) Describe the structure and working of a compound microscope. Also derive the equation for its magnifying power. (6)
- b) Explain the sign convention for lens. (4)
- 5.a) Derive Lens makers formula with necessary diagram. (6)
- b) What is the difference between a reflecting and a refracting telescope? Explain. (4)

UNIT-III

- 6.a) What is attenuation? Explain intrinsic and extrinsic attenuation (6)
- b) Explain the fundamental principle behind optic fibers and how they transmit light signals? (4)

Contd...2

- 7.a) Explain the different types of optic fibers based on their refractive index. (6)
- b) Provide examples of applications where optical fibers are preferred due to their unique characteristics. (4)

UNIT-IV

- 8.a) With a neat labelled diagram discuss how the thermostat and heating elements collaborate to maintain the desired temperature and ensure safety in an electric heating iron. (6)
- b) Provide strategies and tips for reducing power consumption in a home while maintaining electrical appliances. (4)
- 9.a) Discuss the role of compact fluorescent lamps(CFLs) as an alternative to traditional incandescent bulbs and their impact on energy conservation. (6)
- b) Provide examples of common insulator materials used in everyday life and give their applications. (4)

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

SECTION -C

Answer any **THREE** from the following. (3x4=12)

10. Calculate the time it takes for light to travel from the earth to moon, which is approximately 384400 kilometers away.
11. Find the radius of curvature of the convex surface of a plano-convex lens whose focal length is 0.3 m and the refractive index of the material of the lens is 1.5.
12. A capacitor with a capacitance of 20 microfarad is connected to a 12 V battery. Calculate the energy stored in the capacitor.
13. A circuit has a voltage source of 5V and a resistor with 20Ω resistance. Calculate the current flowing through the resistor.

G 502 OE1.3

(2021 Batch onwards)

Reg. No.:

--	--	--	--	--	--	--	--

**St Aloysius College (Autonomous)
Mangaluru**

B.Sc. Semester III – Degree Examination

November/December - 2023

CHEMISTRY – OPEN ELECTIVE

STRUCTURE, BONDING AND CONCEPTS IN ORGANIC CHEMISTRY

Time: 2½ hrs.

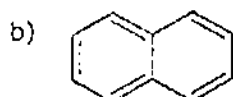
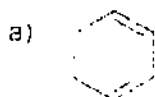
Max Marks: 60

- Instructions: 1. Write the question number and subdivision clearly.
2. Write equations and diagrams wherever necessary.
3. Answer Part – A in first two pages of the answer book.

PART - A

Answer any **EIGHT** of the following questions in 1 to 2 sentences. (1×8=8)

1. a) Define an atom according to Dalton's atomic theory.
- b) What is the basic unit of an atom?
- c) Write the expression relating energy and frequency.
- d) Give examples for groups showing +M effect.
- e) Define nucleophilicity.
- f) Predict aromatic character of the following compounds.



- g) In sp^2 hybridization, how many sigma (σ) bonds and pi (π) bonds are formed by each carbon atom?
- h) Name the simplest and smallest annulene with six carbon atoms.
- i) Define positive electromeric (+E) effect.

PART - B

Answer any **EIGHT** of the following in 3 to 5 sentences. (3×8=24)

2. (i) How does the azimuthal quantum number (l) relate to orbital shapes?
- (ii) What experiment led to the discovery of the neutron?
- (iii) Describe Hund's rule and its significance in electron filling.
- (iv) Explain the preparation of sodium fusion extract.
- (v) What is nucleophile and why is carbanion considered nucleophilic? Give an example for primary and secondary carbanion.
- (vi) Write a note on formation of carbocations.
- (vii) Define heterocyclic and homocyclic compound with an example each.
- (viii) Among monochloroacetic acid and trichloroacetic acid which is more acidic and why?
- (ix) What is an electrophile? Give two example of a molecule that can act as an electrophile.

Contd...2

PART - C**Answer any SEVEN of the following questions.****(4×7=28)**

3. Derive the expression for de Broglie equation.
4. Explain the characteristics of isobars with an example.
5. List two types of inductive effects. Provide a brief explanation of each.
6. Differentiate between non-aromatic compound with aromatic compound by taking suitable example.
7. Describe the principle and procedure involved in the estimation of halogens in an organic compound by Carius method.
8. Define carbene. Explain the types of carbenes.
9. Explain why secondary carbocation is more stable than primary carbocation using hyperconjugation effect.
10. Explain with an example each addition and elimination reaction.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

--	--	--	--	--	--	--	--

ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU

B.Sc. SEMESTER III DEGRÉE EXAMINATION

November / December - 2023

Mathematics (OPEN ELECTIVE)

Ordinary Differential Equations

Time : 2½ Hours

Max. Marks : 60

PART - AAnswer any NINE of the following .

(9×2=18)

1. Check whether the given differential equation $(x^4 + 3x^2y^2 + y^4)dx + x^3y dy = 0$ is homogenous.
2. Define a differential equation. Give an example.
3. Find the order and degree of $\frac{d^4y}{dx^4} + 3y\left(\frac{dy}{dx}\right)^2 = 0$.
4. Check whether the given differential equation $(y + 2xy^2)dx + (1 + 3x^3y^2 + x^2)dy = 0$ is exact.
5. Rewrite the differential equation $(x^5 + 3y)dx - xdy = 0$ as a linear differential equation.
6. Find the integrating factor of $(xy + 1)dx + x(x + 4y - 2)dy = 0$.
7. Find the integrating factor of $(-2xy + x)dx + dy = 0$.
8. Give an example for Bernoulli equation. Write the formula for substitution z .
9. Find particular integral of $(D^2 - 5D + 6D)y = e^{4x}$.
10. Find the particular integral of $(D^2 + 4)y = 3\sin 2x$.
11. Find the complementary solution of the differential equation $(D^2 + 4D + 4)y = 0$.
12. Transform a given differential equation $x^2 \frac{d^2y}{dx^2} + 2x \frac{dy}{dx} = 6x^2 + 2x + 1$ into the differential equation of constant coefficients by making a substitution of $x = e^z$.

Contd....2

PART – BUNIT – IAnswer any TWO of the following .

(2x7=14)

1. Solve: i) $\frac{dy}{dx} = x^2y + y$ ii) $e^y \frac{dy}{dx} - x - x^3 = 0$.
2. Solve: $3y(x^2 - 1)dx + (x^3 + 8y - 3x)dy = 0$.
3. Solve: $(x^2 + y^2)dx - xydy = 0$.

UNIT – IIAnswer any TWO of the following .

(2x7=14)

1. Solve: i) $y' + \frac{4}{x}y = x^4$ ii) $y' - 5y = 0$.
2. Solve: $(x^2 + y^2 + 1)dx + x(x - 2y)dy = 0$.
3. Solve: $6x^2dy + y(2y^3 + x)dx = 0$.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

UNIT – IIIAnswer any TWO of the following .

(2x7=14)

1. Solve: $(D^2 - 2D + 4)y = e^x \sin x$.
2. Solve: $(D^3 - D^2 - D + 1)y = 1 + 2x^2$.
3. Solve: $(D^2 - 2D + 1)y = e^{3x} - e^{-5x}$.

(2021 Batch Onwards)

G 505 OE1.3

Reg. No.:

--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

November/December - 2023

COMPUTER SCIENCE (OPEN ELECTIVE)

INTERNET OF THINGS(IoT)

Time: 2½Hours.

Max Marks: 60

PART –A

1. **Answer any SIX of the following.** (6x2=12)
- Define IoT.
 - Briefly explain the role of data security measures at the logical design level of IoT systems.
 - Define Software-Defined Networking (SDN) and its primary objective.
 - Differentiate between IoT and M2M communication in terms of scope and purpose.
 - What impacts IoT have on agriculture section?
 - Name two types of cloud services commonly used in IoT deployments.
 - How does IoT enable remote patient monitoring, and why is it significant in healthcare?
 - What is home automation, and how does it simplify everyday tasks for homeowners?

PART –B

Answer any ONE FULL question from each unit. (4x12=48)

UNIT – I

- Describe the typical communication model used in IoT applications, including the roles of sensors, gateways, cloud services, and end-users. (6)
 - Compare and contrast wired and wireless connectivity options for IoT devices, highlighting their pros and cons in various scenarios. (6)
- Discuss the factors that influence the choice of communication protocols in IoT projects. Consider factors such as device constraints, network requirements, and security concerns. (6)
 - Describe the role and functions of the network layer in the IoT architecture. Explain how it facilitates communication between devices and the cloud. (6)

UNIT – II

- Differentiate Push-Pull and Publish-Subscribe communication model. (6)
 - Write the code to blink an LED converted to Arduino pin 13. Explain each line of the code. (6)
- With a neat diagram explain level 6 IoT? Explain the scenario in which level 6 IoT is applicable. (6)
 - What are the three different characteristics of data? Explain with respect to IoT Systems. (6)

UNIT – III

6. a) Discuss the unique security challenges in IoT, such as device vulnerabilities, data privacy, and the potential for IoT-based attacks. How can IoT platforms address these challenges? (6)
- b) Explain the difference between digital and analog pins on an Arduino board. Give examples of typical uses for each type. (6)
7. a) Explain the role of security technologies (e.g., encryption, authentication) as enablers for secure IoT deployments. How can these technologies safeguard IoT ecosystems? (6)
- b) Explore current and emerging trends in the IoT landscape, such as cloud computing, 5G integration, and AI-driven IoT applications. (6)

UNIT – IV

8. a) Discuss the significance of IoT in environmental monitoring. How does it contribute to addressing environmental issues such as pollution and climate change? (6)
- b) Describe the various applications of IoT in agriculture, including soil monitoring, crop health management, and livestock tracking. How do these applications improve agricultural outcomes? (6)
9. a) Describe the impact of IoT on modern agriculture. Provide use cases illustrating how IoT sensors and data analytics are transforming farming practices and improving crop yields. (6)
- b) Explore the impact of IoT on the e-commerce industry. How does it enable personalized shopping experiences and efficient order fulfillment for online retailers? (6)

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

(2021 Batch Onwards)

G 506 OE1.3

Reg. No.:

--	--	--	--	--	--	--	--

St Aloysius College (Autonomous)
Mangaluru

B.Sc. - Semester III
November/December - 2023
STATISTICS - OPEN ELECTIVE
BIostatistics

Time: 2 1/2 Hours.

Max Marks: 60

Note: 1. Answer all parts

2. F Table will be provided

PART - A

I. Answer any **FIVE** of the following:

(2x5=10)

1. Differentiate Inclusive Class Interval and Exclusive Class Interval.
2. Define Biostatistics.
3. Explain any two data types in Biostatistics.
4. Explain the degrees of freedom.
5. Write the test statistic for t-test of single mean.
6. Write the formula for treatment sum of squares in one way ANOVA.
7. Write the formula for total sum of squares in three way ANOVA.

PART - B

II. Answer any **FIVE** of the following.

(10x5=50)

8. a) The following distribution gives the daily income of 50 workers of a factory.

Daily Income in Rs.	100-120	120-140	140-160	160-180	180-200
No of Workers	12	14	8	6	10

Convert the above distribution to a less than type cumulative frequency.

- b) Explain the data types in biostatistics.
9. a) A random sample of size 20 from a normal population gives the sample standard deviation of 6. Test the hypothesis that the population standard deviation is 9 (chi-square at 5% for 19 d.o.f is 30.144).
- b) A random sample of 20 observations gave a standard deviation 3.72. Is this compatible with the hypothesis that the sample is from a normal population with variance 4.35? (chi-square at 5% for 19 d.o.f is 30.144).
10. Test whether the new drug is effective (chi-square (1,0.05)=.841).

	Attacked by disease	Not attacked by disease
Admitted of drug	8	2
Not admitted of drug	7	6

Contd...2

11. What is Mann-Whitney U test? Write the steps of Mann-Whitney U test.
12. Analyze the following data using three way ANOVA method:

Rations	Data types		
	I	II	III
A	8	7	3
B	5	6	6
C	5	4	5
D	7	4	4

13. Analyze the following data using one way ANOVA method:

Red	9	11	10	12	16
Green	19	20	24	16	32
Black	5	7	8	15	9

14. Analyze the following data using three way ANOVA method:

B	A	E	D	C
45	52	63	41	48
C	D	B	A	E
25	45	49	43	49
E	B	A	C	D
47	45	72	38	41
A	C	D	E	B
52	31	42	57	41
D	E	C	B	A
30	69	32	46	60

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

--	--	--	--	--	--	--	--

ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU

B.Sc. SEMESTER III - DEGREE EXAMINATION

NOVEMBER/DECEMBER - 2023

BOTANY - OPEN ELECTIVE

MEDICINAL AND AROMATIC PLANTS

Time : 2 ½ Hours

Max. Marks : 60

Note: i) Answer all the sections.

ii) Draw diagrams wherever necessary.

SECTION - A

I Answer any FIVE of the following.

(5x2=10)

1. Mention any two uses of plant belonging to family Apocynaceae.
2. What is tridosha?
3. Define biopiracy.
4. What is bioprospecting?
5. Write the scientific name of arogyapaccaha.
6. Give any two uses each of Patchouli and *Eucalyptus*.
7. Mention any four examples of aromatic plants.
8. Mention any four uses of nutmeg.

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

SECTION - B

II Answer any SIX of the following.

(6x5=30)

1. State the differences between Unani and Homeopathy system of medicine.
2. Mention the uses of secondary metabolites.
3. Explain phytochemical screening tests for steroids and Phenolic compounds.
4. Explain Indian snake root as modern medicine.
5. What are aromatic plants? Give a brief note on its historical background.
6. Write a brief account on the medicinal plant *Withania somnifera*.

Contd...2

7. Explain any two method of extraction of essential oil.
8. Explain the taxonomic description of *Geranium*.

SECTION - C

III Answer any TWO of the following.

(2x10=20)

1. Explain the uses of the following in cosmetic and perfume industry
 - a) *Vanilla planifolia*
 - b) *Rosa damascena*.
2. Mention the objectives of National Medicinal Plant Board.
3. Give a detailed account of ethnobotanical sources of India.
4. Explain the therapeutic uses of
 - a) *Achyranthus aspera*
 - b) *Ocimum sanctum*
 - c) *Gloriosa superba*
 - d) *Azadiracta indica*

--	--	--	--	--	--	--	--

St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester III – Degree Examination

November/December -2023

ZOOLOGY (OPEN ELECTIVE)

Endocrinology

Time: 2½ Hours.

Max Marks: 60

- Note:**
1. Answer any **ten** questions from Part–A, any **four** questions from Part-B and any **two** questions from part-C.
 2. Draw diagrams wherever necessary.

PART – A

I. Answer any TEN of the following. (10X2=20)

1. How does the transport of endocrine and exocrine hormones occur?
2. What are Neurosecretions? Give an example.
3. Describe the first Hormone therapy.
4. What is the function of progesterone?
5. What are the risk factors for Diabetes mellitus?
6. Give the symptoms of cretinism.
7. Name the hormones secreted by adenohipophysis.
8. What is thermogenic effect?
9. Give any two functions of pineal gland.
10. What is scaffolding protein? Give its importance.
11. What are molecular mediators? Give an example.
12. How do nuclear receptors help in gene regulation by hormones?

PART – B

II. Answer any FOUR of the following. (4X5=20)

1. What is antagonistic and synergistic effect? Explain.
2. Compare and contrast the modes of action of steroid hormones.
3. With a neat labeled diagram explain the structure of testis. Give its function.
4. Give a detailed account on hormones of neurohypophysis.
5. Explain endocrine pancreas with neat labeled diagram.
6. With relevant examples Explain the major classes of hormones.

PART – C

III. Answer any TWO of the following. (2X10=20)

1. Elucidate on hormones of Hypothalamus.
2. Explain the Role of Cytoplasmic and nuclear receptors in steroid hormone action.
3. Give a detailed account on thyroid gland and its hormones.
4. What are the anterior pituitary hormones? Explain their functions.

St Aloysius College (Autonomous)**Mangaluru****B.Sc. Semester III – Degree Examination****November/December - 2023****BIOCHEMISTRY - OPEN ELECTIVE****BIOCHEMICAL TECHNIQUES****Time: 2½ Hours****Max. Marks: 60****Note: i) Answer all the questions****ii) Draw diagrams wherever necessary****PART – A****1. Answer any TEN of the following.****(2×10=20)**

- a) Differentiate between adsorption and partition chromatography.
- b) What is R_f value?
- c) Give the Principle behind Ion exchange chromatography.
- d) Define PAGE. Give its application.
- e) What is Zone electrophoresis? Give example.
- f) Define Chromatography.
- g) What is 2D- electrophoresis?
- h) List the advantages of TLC over Paper chromatography?
- i) State the principle used in Spectrophotometer.
- j) What is Diffraction?
- k) What is chemical shift?
- l) Why alkanes do not show absorption under UV spectroscopy

ST ALOYSIUS COLLEGE LIBRARY
MANGALURU - 575 003

PART – B**Answer any EIGHT of the following.****(5×8=40)**

2. Write a note on circular paper chromatography.
3. Explain the method employed in Ion exchange chromatography.
4. Discuss on TLC in detail.
5. Write a note on HPLC.
6. Elaborate on SDS PAGE.
7. Discuss on Fluorimeter and its application.
8. Describe the Instrumentation of Spectrophotometer.
9. Highlight the principle of IR Spectroscopy.
10. Outline the principle and application of Mass Spectroscopy.

--	--	--	--	--	--

St Aloysius College (Autonomous)

Mangaluru

B.C.A. Semester III – Degree Examination

November/December - 2023

B.C.A. - OPEN ELECTIVE

COMPUTER ORIENTED NUMERICAL ANALYSIS

Time: 2½hrs.

Max Marks: 60

PART – A

Answer any SIX of the following.

(6x2=12)

1. a) What is upper triangular matrix? Give example.

b) Find the Euclidian norm of the matrix $A = \begin{bmatrix} -4 & 2 \\ 3 & 7 \end{bmatrix}$.

c) Find 'p', if $x_0=0.75825$, $x=0.759$ and $h=0.00005$.

d) If Δ is the forward difference operator, find $\Delta^3 y_0$.

e) Write divided difference of $[x_1, x_2, x_3, x_4]$.

f) Define Interpolation.

g) Write the formula for Simpson's $\frac{3}{8}$ Rule and write its error expression.

ST ALOYSIUS COLLEGE LIBRARY

h) Write the general formula for numerical integration. MANGALURU - 575 003

PART – B

Answer any ONE FULL question from each unit.

(12x4=48)

UNIT – I

2. a) Solve the following equations using Gauss-Elimination method.

$$x - y + 2z = 3$$

$$x + 2y + 3z = 5$$

$$3x - y - 5z = -13$$

(6)

b) Find all the matrix norms for the matrix $M = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$.

(6)

OR

3. a) With example, explain the following.

i) Symmetric matrix

ii) Identity matrix

iii) Skew-symmetric matrix

iv) Null matrix

(6)

b) Using matrix-inversion method, find the inverse of the following equations.

$$3x + y + 2z = 3$$

$$2x - 3y - z = -3$$

$$x + 2y + z = 4$$

(6)

Contd...2

UNIT - II

4. a) Solve for
- $\tan 28^\circ$
- using Newton's Interpolation formula.

x (in degree)	10	15	20	25	30
tan x	0.1003	0.1511	0.2027	0.2553	0.3093

(6)

- b) Solve the following linear equations using Jacobi's method with initial approximation zero for four decimal spaces.

$$10x_1 + x_2 + x_3 = 24$$

$$-x_1 + 20x_2 + x_3 = 21$$

$$x_1 - 2x_2 + 100x_3 = 300$$

(6)

OR

5. a) Solve the following system of linear equations using Gauss - Siedel method.

$$4x + 2y - 2z = 0$$

$$x - 3y - z = 7$$

$$3x - y + 4z = 5$$

(6)

- b) The values of x and
- $\log_{10}(x)$
- are given below. Find
- $\log_{10}(301)$
- using Lagrange's method.

x	300	304	305	307
$\log_{10}(x)$	2.4771	2.4829	2.4843	2.4871

(6)

UNIT - III

6. a) Using Newton's divided difference formula, find
- $f(8)$
- from the following table.

x	4	5	7	10	11	13
f(x)	48	100	294	900	1210	2028

(6)

- b) From the following table of values, obtain the first order
- $\frac{dy}{dx}$
- and second order
- $\frac{d^2y}{dx^2}$
- at
- $x=1$
- and
- $x=3$
- using Newton's forward difference interpolation method.

x	0	1	2	3	4	5	6
y	6.9897	7.4036	7.7316	8.1291	8.4510	8.7506	9.0309

(6)

OR

7. a) Compute the Newton's Divided Difference with following data when
- $x=6$
- .

x	3	7	9	10
y	168	120	72	63

(6)

- b) Derive the formula for the first order
- $\frac{dy}{dx}$
- and second order
- $\frac{d^2y}{dx^2}$
- using Newton's forward difference formula.

(6)

Contd...3

UNIT - IV

8. a) Using the Trapezoidal rule with 8 sub-intervals solve $I = \int_0^2 \frac{1}{16+x^2} dx$. (6)
- b) Evaluate $I = \int_0^2 \frac{1}{1+x^2} dx$ by using Simpson's $\frac{3}{8}$ rule for $h=0.25$. (6)

OR

9. a) Using the general formula for numerical integration, derive the Simpson's $\frac{1}{3}$ rule and find the solution for the following table. (6)

x	1.4	1.6	1.8	2.0	2.2
f(x)	4.0552	4.9530	6.0436	7.3891	9.0250

- b) Using the general formula for Numerical Integration, derive the Trapezoidal Rule formula. Evaluate $\int_0^1 \frac{1}{1+x^2} dx$ by dividing the interval into 4 sub-intervals. (6)
