

PO 106.3

Reg No :

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

St Aloysius College (Autonomous)
Mangaluru
Semester III - PG Examination
November - 2024
OPEN ELECTIVE (UNDER CBCS)
Film Appreciation

Time : 3 Hours

Max. Marks : 70

SECTION-A **ST.ALOYSIUS COLLEGE**
PG Library
MANGALORE-575 003

Write essays on any THREE of the following.

(3x15=45)

1. Imagine you are a film director planning a crucial scene for a new movie. How would you apply your knowledge of cinematic elements to create a visually impactful and emotionally resonant sequence?
2. Evaluate the impact of Chekov's Gun and Foreshadowing in film storytelling. Provide examples from popular films.
3. Identify and describe the fundamental elements of cinematography, including framing, composition, camera movement, and lighting. Provide examples from classic films to illustrate how these elements contribute to visual storytelling.
4. Evaluate the impact of a narrative structure on the overall coherence and pacing of a film. How does it facilitate the screenwriting process?
5. Critically analyze the role of sound design and music in enhancing the storytelling and emotional impact of a movie. How do these auditory elements engage the audience?

SECTION-B

Write short notes on any FIVE of the following.

(5x5=25)

- a. Film appreciation
- b. Prop Placement in mise-en-scène
- c. Set Designing for Genre
- d. Pan vs Tilt
- e. Climax
- f. Character development in film storytelling
- g. Dissolve vs Fade In/Fade Out

PO 117.3

Reg No:

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

St Aloysius College (Autonomous)
Mangaluru

Semester III- P.G. Examination
November -2024

ST.ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

OPEN ELECTIVE UNDER CBCS
CONTEMPORARY INDIAN ECONOMY

Time: 3 hours

Max Marks: 70

SECTION- A

Answer any TWO questions of the following: (2×15=30)

1. Explain the concept of economic liberalization and how it has influenced the structure of the Indian economy.
2. Analyze the pros and cons of privatization as a strategy to improve the efficiency and performance of public sector undertakings (PSUs) in India.
3. Analyze the impact of the GST on various sectors of the Indian economy.

SECTION- B

Answer any FOUR questions of the following: (4×6=24)

4. Evaluate the role of government policies in reducing unemployment rates and promoting inclusive growth.
5. How does inclusive growth aim to address income inequality within a society, and what are its implications for long-term development?
6. Name some push and pull factors that contribute to rural-urban migration in India.
7. Can you recall the main objectives of land reforms in India as outlined by the government?
8. What is the influence of labor disputes on a company's reputation and its financial performance?
9. Explain the factors contributing to India's balance of payments problem.

SECTION: C

Write a note on FOUR of the following: (4×4=16)

10. Analyze the impact of different poverty alleviation measures on reducing income inequality in India.
11. Define the concept of poverty.
12. What is the definition of a Multinational Corporation (MNC), and can you provide an example of a well-known MNC operating in multiple countries?
13. What is the minimum support price (MSP) in agriculture, and how does it impact farmers' income?
14. What is fiscal federalism?
15. Why is the WTO important for international trade?

PO 127.3

Reg No :

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

St Aloysius College (Autonomous)

Mangaluru

Semester III - P.G. Examination - (M.A. English)

November - 2024

OPEN ELECTIVE (UNDER CBCS)

INTERPRETING LITERATURE

Time : 3 Hours

ST. ALOYSIUS COLLEGE

PG Library

MANGALORE-575 002 UNIT - I

Max. Marks : 70

I. Answer any ONE of the following in about 300 words each. (1x15=15)

1. How do "The Dictators" and "Hunger in the South" convey the theme of silence in relation to oppression?
2. In what ways does Kamala Das challenge societal norms and expectations in both "An Introduction" and "Dance of the Eunuchs"? Explain.
3. Discuss the theme of transformation in "Lady Lazarus" and "Mirror". How does Plath portray the idea of rebirth or renewal in each poem?

UNIT - II

II. Answer any ONE of the following in about 300 words each. (1x15=15)

1. Examine the theme of justice and mercy in the trial scene of *The Merchant of Venice*.
2. Discuss how Shylock is portrayed during the trial scene of *The Merchant of Venice*.
3. What is the setting of the play *Arms and the Man*, and how does it influence the events that unfold?

UNIT - III

III. Answer any ONE of the following in about 300 words each. (1x15=15)

1. What is the significance of the title "Dream Children" in relation to the essay's content?
2. In what ways does Lamb contrast his dream world with reality?
3. Explain how memory and imagination play a role in reconstructing identity in "Imaginary Homelands".

UNIT - IV

IV. Answer any ONE of the following in about 300 words each. (1x15=15)

1. How does the theme of friendship play a significant role in *Swami and Friends*.
2. What are the main conflicts that Swami faces in the novel and how does he deal with them?
3. Describe Swami's relationship with his father. How does it affect his actions and decisions?

UNIT - V

V. Write short notes on any TWO of the following. (2x5=10)

1. Theme of exile and displacement in "Imaginary Homelands"
2. Swami's experience during the protest against the British
3. Lazarus in the context of "Lady Lazarus"
4. Catherine Petkoff in *Arms and the Man*

PO 206.3

Reg. No.

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

**St Aloysius College (Autonomous)
Mangaluru**

Semester III – P.G. Examination

November – 2024

OPEN ELECTIVE (UNDER CBCS)

HUMAN RIGHTS AND SOCIAL DEFENCE

ST.ALOYSIUS COLLEGE

PG Library

MANGALORE-575 002

Time: 3 hrs.

Max Marks: 70

SECTION – A

(3x10=30)

- a. Answer any THREE questions.**
- b. Each question carries TEN marks.**
- c. Answer should not exceed 400 words.**

1. Discuss the key elements of children's right to protection.
2. Explain the procedures and powers of special courts in dealing the cases under POCSO Act, 2012.
3. Write in detail any two legal measures in India to safeguard the rights of women.
4. Highlight the concept of environmental justice and its relation to human rights.
5. National Human Rights Commission regulates and protects human rights. Explain.

SECTION – B

(2x20=40)

- a. Answer any TWO questions.**
- b. Each question carries TWENTY marks.**
- c. Answer should not exceed 800 words.**

6. Define human rights and discuss the fundamental rights of Indian citizens.
7. Describe the historical evolution of human rights in India.
8. Evaluate the impact of civil society initiatives in advocating and influencing human rights policies.
9. Explain 'Observation Home' as an institutional service for children in conflict with law. Discuss its functions.

PO 317.3

Reg No :

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

St Aloysius College (Autonomous)
Mangaluru
Semester III – P.G. Examination
November - 2024
OPEN ELECTIVE (UNDER CBCS)
Entrepreneurial Development

Time : 3 Hours

Max. Marks : 70

SECTION-A

Answer any **FIVE** of the following:

(5x4=20)

1. How do you differentiate between the concept of entrepreneurship and entrepreneur?
2. What skills are necessary for an entrepreneur to foster innovation?
3. What are the core elements of a startup, and how can they help entrepreneurs build a successful venture?
4. How does assessing internal resources help a company stay ahead of competitors?
5. What is the meaning of social entrepreneurship in India, what are its key features, and what objectives does it aim to achieve?
6. What challenges do businesses face in enforcing their intellectual property rights in a global marketplace?
7. What is the scope of marketing in today's globalized business environment?

SECTION-B

Answer any **FOUR** of the following:

ST.ALOYSIUS COLLEGE
PG LIBRARY
MANGALORE-575 003

(4x10=40)

8. How do societal barriers impact women in entrepreneurship?
9. How does effective working capital management improve liquidity and profitability, and what are the common sources of working capital?
10. How do the various forms of business ownership operate, and what are their key features?
11. How do social enterprises in India balance profit generation with achieving social impact?
12. How does effective human resource management contribute to the overall success and productivity of an organization?
13. What are the key metrics used to evaluate the effectiveness of an entrepreneurial development program?

SECTION-C

(Compulsory)

(1x10=10)

14. Ramesh, passionate about environmental sustainability, founded an eco-friendly packaging company that uses biodegradable materials. His initiative employs women from marginalized communities, providing them with fair wages and training in sustainable practices. Ramesh aims to scale his business while maintaining a commitment to environmental responsibility and social equity.

Questions:

1. What are the benefits of integrating social goals with business objectives in Ramesh's enterprise?
2. How can Ramesh expand his business while maintaining its social mission?

PO 513.3

Reg. No.

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

St Aloysius College (Autonomous)

Mangaluru

Semester III – P.G. Examination

November – 2024

OPEN ELECTIVE (UNDER CBCS)

CLINICAL DRUG DEVELOPMENT AND IPR

Time: 3 Hours

Max. Marks: 70

Note: Draw neat labeled diagrams/schematic sketches/structures wherever necessary.

I. Write short notes on any FIVE of the following: (5x3=15)

1. Using a flow chart, give an overview of the drug development process.
2. Evaluate the role of good record-keeping practices in GLP adherence for preclinical research.
3. What is the International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH)?
4. Evaluate the Investigator's responsibilities in ensuring the quality and integrity of clinical trial data.
5. Define WIPO.
6. Analyze the historical context and negotiations that led to the creation of the TRIPS agreement.
7. Explain the concept of drug-receptor binding kinetics and its implications for pharmacological activity.
8. Discuss on intellectual property rights.

ST.ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

II. Write explanatory notes on any FIVE of the following: (5x5=25)

9. What is the primary objective of repeated dose toxicity studies, and how do they differ from single dose studies?
10. Explain how pharmacokinetics can influence dosing regimens and drug efficacy.
11. Explain the content and organization of an IB.
12. Explain the importance of GCP in ensuring the quality and integrity of clinical trials.
13. Analyze the criteria and prerequisites for patenting an invention in India.
14. Compare and contrast the US patent system with patent systems in India.
15. Analyze the role of the Patent Cooperation Treaty (PCT) in simplifying the international patent application process.
16. Explain the components of an Informed Consent Form (ICF).

III. Answer any THREE of the following: (3x10=30)

17. Assess the animal model systems for pre-clinical research.
18. List some key historical events or incidents that prompted the need for regulations in clinical research.
19. What are the infringements of copy right according to copy right act?
20. Explain the various types of patent applications. Discuss the purpose and key differences between these types of applications.
21. Describe the methods and conditions used in stability testing.

PO 517.3

Reg. No.:

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

St Aloysius College (Autonomous)

Mangaluru

Semester III - P.G. Examination

November - 2024

OPEN ELECTIVE (Under CBCS)

EVOLUTION AND ECOLOGY

Time: 3 Hours

Max Marks: 70

(10x2=20)

I. Answer any TEN of the following:

1. Define evolution and mention one example.
2. How does genetic drift differ from natural selection?
3. What is the key event that characterizes speciation?
4. Define adaptation in the context of evolution. What is its significance in the study of species?
5. What is a trophic level in an ecosystem?
6. Why is it important to study the age structure of a population?
7. Why might islands be particularly rich in endemic species?
8. What is primary succession?
9. Name two international organizations actively involved in biodiversity conservation efforts.
10. Explain the concept of eutrophication.
11. What is the concept of natural resource conservation?
12. Explain the greenhouse effect and how it relates to global warming.

ST.ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

II. Answer any SIX of the following:

(6x5=30)

13. Explain any two misconception related to evolution of humans
14. Given a scenario involving environmental changes, predict how a population might adapt over several generations.
15. Explain coevolution with example
16. Define mutualism and provide two real-world examples of mutualistic interactions between species
17. Explain the concepts of species richness, species evenness, and diversity indices in the context of ecological studies.
18. Define the fundamental niche and the realized niche in ecology. Provide a brief example to illustrate the concept of a realized niche in a natural ecosystem.
19. Explain the concept of in-situ and ex-situ conservation strategies in biodiversity management.
20. Discuss about nitrogen cycle in ecosystems.

Contd...2

III. Answer any TWO of the following:

(2x10=20)

21. Explain the theory of Darwinism.
22. Evaluate the impact of altruistic behavior in the context of kin selection and inclusive fitness theory in behavioral ecology.
23. List and briefly describe four major categories of environmental pollutants. Provide an example of a specific pollutant within each category, and explain its potential environmental impact.
24. a) Define the concept of an ecosystem, including its biotic and abiotic components.
b) Describe the structural components of an ecosystem, including producers, consumers, and decomposers. Provide examples of each.

ST.ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

PO 549.3

Reg. No. :

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

St Aloysius College (Autonomous)
Mangaluru
SEMESTER III – P.G. Examination
November - 2024

Open Elective (Under CBCS)
OPTICAL METHODS OF ANALYSIS

Time: 3 Hours

Max. Marks: 70

PART – A

1. Answer any **SEVEN** sub divisions of the following: (7x2=14)
- a) State and explain Beer-Lambert's law
 - b) What is resonance wavelength?
 - c) In flame photometry concentration of the analyte is expressed in ppm. Give reason.
 - d) What do you mean by fluorescence quenching?
 - e) What is Stokes shift?
 - f) 'Phosphorescence is delayed fluorescence'. Give reason.
 - g) How turbidimetry is different from nephelometry?
 - h) How does wavelength and scattering effect the turbidimetric analysis?
 - i) What is circular dichroism?

PART – B

Answer any **FOUR** of the following choosing at least one full question from each unit: (4x14=56)

UNIT – I

- 2.a) What are spectral and chemical interferences in FES. How can these be prevented. (5)
- b) Describe the working principle of AAS. (5)
- c) Discuss the application of AAS in the analysis of mineral samples with suitable examples. (4)
- 3.a) What are cationic and anionic interferences in flame photometry? How can these be prevented? (5)
- b) With the help of a neat sketch, explain the principle and instrumentation involved in FES. (5)
- c) Explain the advantages of AAS over FES. (4)

UNIT – II

- 4.a) Depict Jablonski diagram and explain the radiative and non-radiative relaxations. (5)
- b) Discuss the factors affecting fluorescence and phosphorescence. (5)
- c) Describe the application of fluorimetry in pharmaceutical and agricultural analysis with suitable examples. (4)

Contd...2

- 5.a) Write a note on bioluminescence and its applications. (5)
- b) Draw a neat schematic diagram of phosphorimeter and explain its principle and working. (5)
- c) Differentiate between fluorimetry and phosphorimetry (4)

UNIT – III

- 6.a) Compare the relative sensitivities of the nephelometer and turbidimeter. (5)
- b) Explain the phenomenon of optical activity and their characteristics. (5)
- c) Discuss the utility of turbidimetric analysis in phase titration. (4)
- 7.a) Explain one application of optical rotation method to determine rate constant. (5)
- b) Write a detailed note on the working of fluorimetry. (5)
- c) With a neat diagram, explain the instrumentation and working of polarimetry. (4)

ST. ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU
SEMESTER III - P.G. EXAMINATION

November - 2024

Open Elective (UNDER CBCS)

Basic Counselling Skills

Time : 3 Hours

Max. Marks : 70

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

(5x2=10)

1. Mention the ethical principles given by APA.
2. Define counselling.
3. Give one example each to open ended and close ended questions.
4. What are non-verbal communication?
5. What is unconditional positive regard?
6. Differentiate between transference and counter transference
7. What is projection?

ST.ALOYSIUS COLLEGE
 PG Library
 MANGALORE-575 003

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

(4x5=20)

8. Describe the personal qualities the effective counsellor must possess.
9. How can the counsellor deal with value conflicts that arise in the counselling session?
10. Discuss attending to the client is an important skill in counselling.
11. What are main categories of people who might use counselling skills to help others.
12. Give examples of different Counter transference a counsellor can show.
13. Discuss any five defense mechanisms.

III. Answer any **FOUR** of the following.

(4x10=40)

14. Discuss the cognitive approach to counselling.
15. Discuss the core conditions of counselling?
16. What are the stages of counselling according to Patterson? Explain.
17. Write the importance of Reflection of Feeling, Paraphrasing and Summarization skills for the counsellor.
18. Elaborate on the various self doubts and fears beginning counsellors can have.
19. Who are difficult clients? Discuss different types of challenging clients.

St Aloysius College (Autonomous)
Mangaluru
Semester III - P.G. Examination
NOVEMBER - 2024
OPEN ELECTIVE (UNDER CBCS)
Differential Equations and Applications

Time : 3 Hours

Max. Marks : 70

Answer **FIVE FULL** questions

(14x5=70)

1. a. An inductance of $2 H$ and a resistance of 20Ω are connected in series with an emf E volts. If the current is zero when $t = 0$, find the current at the end of $0.01 s$ if $E = 100$ volts. 7
 b. Solve : $(2xy + x^2) y' = 3y^2 + 2xy$. 7
2. a. Check whether the given differential equation is exact and hence solve: 6
 $\{2xy \cos(x^2) - 2xy + 1\} dx + \{\sin(x^2) - x^2 + 3\} dy = 0$.
 b. Define the degree and order of a differential equation. 2
 c. Solve : $\frac{dy}{dx} = \tan\left(\frac{y}{x}\right) + \frac{y}{x}$. 6
3. a. Solve the following using variable separable form: 6
 1. $\sec^2(x) \tan(y) dx + \sec^2(y) \tan(x) dy = 0$
 2. $(1 + x^2) dy - xy dx = 0$.
 b. Solve the following : 8
 1. $(x + a) \frac{dy}{dx} - 3y = (x + a)^5$
 2. $(x^3 - x) \frac{dy}{dx} - (3x^2 - 1) y = x^5 - 2x^3 + x$.
4. a. Solve: $(D^3 + 1)y = \cos^2\left(\frac{x}{2}\right) + e^{-x}$. 5
 b. Find the complementary solution of $\frac{d^2y}{dx^2} - 3\frac{dy}{dx} + 2y = \frac{e^x}{1+e^x}$. 4
 c. Solve: $(D^4 - 3D^2 - 4)y = 5 \sin 2x - e^{-2x}$. 5
5. a. Solve : $\frac{d^3y}{dx^3} - 3\frac{d^2y}{dx^2} + 4\frac{dy}{dx} - 2y = e^x + \cos x$. 8
 b. Solve: $(2D^2 + 3D + 4)y = x^2 - 2x$. 6
6. a. Solve $(D^3 - 3D^2D' + 4D'^3)z = \sin(x + 3y)$. 5
 b. Determine whether the following equations are hyperbolic, parabolic and elliptic? 4
 i) $x^2 \frac{\partial^2 u}{\partial t^2} - \frac{\partial^2 u}{\partial x^2} = u$
 ii) $t \frac{\partial^2 u}{\partial t^2} + 2 \frac{\partial^2 u}{\partial x \partial t} + x \frac{\partial^2 u}{\partial x^2} + \frac{\partial u}{\partial x} = 0$
 iii) $x \frac{\partial^2 u}{\partial t^2} + t \frac{\partial^2 u}{\partial x \partial t} + \frac{\partial^2 u}{\partial t^2} = 0$.
 c. Solve $p^2 + q^2 = z^2(x + y)$. 5
7. a. Solve $(mz - ny) \frac{\partial z}{\partial x} + (nx - lz) \frac{\partial z}{\partial y} = ly - mx$. 5
 b. Find the particular integral of $(D^2 - 3DD' + 2D'^2)z = e^{2x-y}$. 4
 c. Solve $(D - D' - 2)(D - D' - 3)z = e^{3x-2y}$. 5
8. a. Solve $\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial x \partial y} - 6 \frac{\partial^2 z}{\partial y^2} = y \cos x$. 5
 b. Find the particular integral of $(D^3 - 3D^2D' - 4DD'^2 + 12D'^3)z = \sin(y + 2x)$. 4
 c. Solve $\sqrt{p} + \sqrt{q} = 1$. 5

PO 578.3

Reg. No:

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

St Aloysius College (Autonomous)

Mangaluru

Semester III – P.G. Examination

November – 2024

OPEN ELECTIVE (UNDER CBCS)

EXPERIMENTAL TECHNIQUES

ST. ALOYSIUS COLLEGE
PG Library
MANGALORE-575 002

Time: 3 Hours

Max. Marks: 70

PART - A

Answer all questions choosing one from each unit.

(3x18=54)

UNIT -I

1. a) What is Q switching and electro-optic effect in laser? Explain. (8)
b) Derive the expression for Second Harmonic Generation and explain the process. Obtain the expression for SHG efficiency. (10)

OR

2. a) Explain the construction and working of the Ruby laser. (8)
b) Draw the energy level diagram of Helium Neon laser. Explain the operation principle of He-Ne laser. How this laser is superior to ruby laser? (10)

UNIT -II

3. a) With neat diagram describe the construction and working of rotary vane pump. (8)
b) With the help of neat diagram discuss the working of a oil diffusion pump. Compare its performance with an turbo molecular pump. (10)

OR

4. a) Explain principle and working of Pirani and Penning gauge. Mention its limitation. (10)
b) Distinguish between viscous flow and molecular flow. Write a note on Reynolds's number and Knudsen's number. (8)

UNIT -III

5. a) With neat diagram explain principle of atomic force microscopy. (10)
b) Mention the differences between SEM and TEM? What are the advantages and disadvantages of SEM. (8)

OR

6. a) Explain construction, working and applications of TEM. (10)
b) How electron microscopes differ from optical microscope? Explain the nature of electron interaction with matter. (8)

PART - B

Answer any FOUR questions:

(4x4=16)

7. a) Explain optical mixing with regard to non linear optics.
b) Write a note in vacuum coating.
c) Explain in detail self focussing of light.
d) Discuss low energy electron diffraction.
e) Write the energy level diagram of CO₂ laser.
f) Explain the conductance and throughput in vacuum pipelines.

PO 5S9.3

Reg No.:

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

St Aloysius College (Autonomous)

Mangaluru

SEMESTER III-P.G. Examination

November - 2024

Open Elective (Under CBCS)

ST.ALOYSIUS COLLEGE
PG LIBRARY
MANGALORE-575 002

**BIOINORGANIC CHEMISTRY, GREEN CHEMISTRY AND
ENVIRONMENTAL CHEMISTRY**

Time: 3 Hours

Max.Marks:70

PART-A

1. Answer any **SEVEN** sub divisions of the following: (7×2=14)
- Mention the importance of Na⁺-K⁺ pump.
 - Sketch the structure of haemoglobin.
 - Give an example each for iron storage and copper storage proteins
 - Microwave synthesis is greener than conventional synthesis. Justify
 - What is zero technology?
 - Give examples for green solvents and phase transfer catalyst used in organic synthesis
 - What are air pollutants? Give an example for primary pollutants
 - Illustrate the propagation of mercury in food chain.
 - What is coagulation? Give an example for coagulant

PART-B

Answer any **FOUR** of the following choosing at least one full question from each unit (4×14=56)

UNIT-I

- Plot and explain the oxygen dissociation curve for haemoglobin (5)
 - Explain in detail the role of nitrogenase in biological nitrogen fixation (5)
 - With schematic representation, explain the transport of Na⁺- K⁺ ions across the membrane system (4)
- Discuss the mechanism of action of the following in the biological system
i) Ferritin ii) Transferrin (5)
 - Describe the structure and mode of oxygen binding in Hemerythrin. (5)
 - Classify metal ions and highlight their role in biological systems (4)

Contd...2

UNIT II

4. a) What is green chemistry? Explain the need and limitations of green chemistry. (5)
- b) Using suitable examples compare between green and conventional chemistry (5)
- c) No solvent is the best solvent and minimization of auxiliary substances is the best method in green synthesis of organic compounds. Explain. (4)
5. a) Mention the any six basic principles of green chemistry. Explain. (5)
- b) Write a note on atom economy. (5)
- c) Write a note solid on liquid phase transition catalyst. (4)

UNIT III

6. a) Explain the principle and working of reverse osmosis method of desalination of water (5)
- b) Describe the role of nanotechnology in environmental studies. (5)
- c) Write a note on photochemical smog (4)
7. a) What are the major constituents of sewage? Discuss the steps involved in its treatment. (5)
- b) How do you analyse SO₂ and CO pollutants in air sample. (5)
- c) Write a note on biochemical effects of lead. (4)

ST.ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

PO 595.3

Reg. No.

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

**St Aloysius College (Autonomous)
Mangaluru**

Semester III – P.G. Examination

November - 2024

Open Elective (Under CBCS)

Basics of Food Safety and Labelling

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following (6×3=18)

1. Write the importance of food quality assurance.
2. Write on the challenges of Food safety.
3. Write a note on Good Agricultural Practices.
4. Make a short note on the importance of traceability in food safety.
5. Explain Food adulteration.
6. What is the role of FSSAI in food safety regulation?
7. What is Front of Pack Nutrition Labeling?

ST. ALOYSIUS COLLEGE
PG LIBRARY
MANGALORE-575 003

II. Answer any FOUR of the following (4×7=28)

8. What are Food hazards? Explain its types in detail.
9. Discuss on the storage and shelf life indications in food labels.
10. Write a detailed note on Total Quality Management.
11. Explain in detail the recalling programme in food safety
12. What is quality control? Explain its principles, functions and importance in food industry.

III. Answer any TWO of the following (2×12=24)

13. Explain the principles and applications of Good Hygiene Practices.
14. Explain in detail the regulation and guidelines of food labelling.
15. What are the seven principles of HACCP? Explain the role of HACCP in maintaining the product quality in food industries.

PO 815.3

Reg. No.

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

**St Aloysius College (Autonomous)
Mangaluru**

Semester III – P.G. Examination

November - 2024

Open Elective (Under CBCS)

HEALTH AND FITNESS

Time: 3 hrs.

ST.ALOYSIUS COLLEGE
PG Library
MANGALORE-575 003

Max Marks: 70

I. Answer any SIX of the following (6×3=18)

1. What are the importance anthropometric measurement assessments?
2. What is the purpose of regular fitness assessments?
3. What are the physical fitness tests for flexibility?
4. Write a short note on sports supplements.
5. What are aerobic and anaerobic physical activities? Give example.
6. What are the role iron and calcium in athletes?
7. What are nutragenetic aids? Give examples.

II. Answer any FOUR of the following (4×7=28)

8. What is dehydration? What are the consequences of dehydration for an athlete?
9. What are food fads and fallacies? How do they affect the health and well-being of a person?
10. Explain the role of flexibility in maintaining physically active lifestyle.
11. Discuss the fuel requirements during aerobic and anaerobic exercise.
12. Write a note on carbohydrate loading.

III. Answer any TWO of the following (2×12=24)

13. Analyse the relationship between physiological, psychological and social factors in determining overall health using real-life examples.
14. Explain the significance of physical fitness and nutrition in prevention and management of weight control, and cardio vascular disease.
15. Discuss in detail the alternative systems for health and fitness while comparing with the conventional methods.
