

(2021 Batch onwards)

G 101 OE1.2

Reg No.:

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**St Aloysius College (Autonomous)  
Mangaluru**

B.A - Semester II – Degree Examination  
MAY-2024

**HISTORY - (OPEN ELECTIVE)  
CULTURAL HISTORY OF KARNATAKA  
(CE 11-CE 1750) Part - 2**

Time: 2½ hrs.

Max Marks: 60

**Section-A**

**I Answer any TWO of the following in 3 pages each. (15x2=30)**  
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಮೂರು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

1. Explain the Central and the Provincial administration under Vijayanagara  
ವಿಜಯನಗರದ ಕೇಂದ್ರ ಮತ್ತು ಪ್ರಾಂತೀಯ ಆಡಳಿತವನ್ನು ವಿವರಿಸಿ
2. How did the establishment of market towns and trade fairs contribute to the growth of commerce in medieval Karnataka?  
ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕದಲ್ಲಿ ವಾಣಿಜ್ಯ ಬೆಳವಣಿಗೆಗೆ ಮಾರುಕಟ್ಟೆ ಪಟ್ಟಣಗಳು ಮತ್ತು ವ್ಯಾಪಾರ ಮೇಳಗಳ ಸ್ಥಾಪನೆಯು ಹೇಗೆ ಕೊಡುಗೆ ನೀಡಿತು?

3. Briefly explain the role of Sufism in shaping the cultural and religious landscape of Gulbarga under the Bahmani rule.  
ಬಹಮನಿ ಆಳ್ವಿಕೆಯಲ್ಲಿ ಗುಲ್ಬರ್ಗದ ಸಾಂಸ್ಕೃತಿಕ ಮತ್ತು ಧಾರ್ಮಿಕ ಭೂದೃಶ್ಯವನ್ನು ರೂಪಿಸುವಲ್ಲಿ ಸೂಫಿಸಂ ಪಾತ್ರವನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

**Section-B**

**II Answer any THREE of the following in a page each. (3x5=15)**  
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

1. How did factors such as caste, class, and religion influence the status and treatment of women in medieval Karnataka society?  
ಜಾತಿ, ವರ್ಗ ಮತ್ತು ಧರ್ಮದಂತಹ ಅಂಶಗಳು ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕ ಸಮಾಜದಲ್ಲಿ ಮಹಿಳೆಯರ ಸ್ಥಿತಿ ಮತ್ತು ಚಿಕಿತ್ಸೆಯ ಮೇಲೆ ಹೇಗೆ ಪ್ರಭಾವ ಬೀರಿವೆ?
2. How did religion shape medieval Karnataka society, including the influence of Hinduism, Jainism, and Islam, and their interactions with each other?  
ಹಿಂದೂ ಧರ್ಮ, ಜೈನ ಧರ್ಮ ಮತ್ತು ಇಸ್ಲಾಂ ಧರ್ಮದ ಪ್ರಭಾವ ಮತ್ತು ಪರಸ್ಪರ ಅವರ ಪರಸ್ಪರ ಕ್ರಿಯೆ ಸೇರಿದಂತೆ ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕ ಸಮಾಜವನ್ನು ಧರ್ಮವು ಹೇಗೆ ರೂಪಿಸಿತು?
3. Describe the main features of Hoysala art and architecture.  
ಹೊಯ್ಸಳ ಕಲೆ ಮತ್ತು ವಾಸ್ತುಶಿಲ್ಪದ ಮುಖ್ಯ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ
4. Give an account of Social life of the people under the Bahamani rule.  
ಬಹಮನಿ ಆಡಳಿತದಲ್ಲಿ ಜನರ ಸಾಮಾಜಿಕ ಜೀವನ ವಿವರಿಸಿ.
5. How was society structured under the Vijayanagara Empire, including the caste system?  
ಜಾತಿ ವ್ಯವಸ್ಥೆ ಸೇರಿದಂತೆ ವಿಜಯನಗರ ಸಮಾಜವು ಹೇಗೆ ರಚನೆಯಾಯಿತು?

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**Section-C**

**III. Answer the following in 3-5 sentences each. (3x5=15)**  
ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ 3-5 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. Name any two works of Krishnadevaraya?  
ಕೃಷ್ಣದೇವರಾಯನ ಯಾವುದಾದರೂ ಎರಡು ಕೃತಿಗಳನ್ನು ಹೆಸರಿಸಿ?
2. Mention the important art and architectural centres of Vijayanagara  
ವಿಜಯನಗರದ ಪ್ರಮುಖ ಕಲೆ ಮತ್ತು ವಾಸ್ತುಶಿಲ್ಪದ ಕೇಂದ್ರಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿ
3. Name the important works of Shankaracharya  
ಶಂಕರಾಚಾರ್ಯರ ಪ್ರಮುಖ ಕೃತಿಗಳನ್ನು ಹೆಸರಿಸಿ
4. Identify three renowned temples built during the Vijayanagara period  
ವಿಜಯನಗರ ಕಾಲದಲ್ಲಿ ನಿರ್ಮಿಸಲಾದ ಮೂರು ಪ್ರಸಿದ್ಧ ದೇವಾಲಯಗಳನ್ನು ಗುರುತಿಸಿ
5. Write a note on the philosophy of Ramaujacharya  
ರಾಮಾನುಜಾಚಾರ್ಯರ ತತ್ವಶಾಸ್ತ್ರದ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

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(2021 Batch Onwards)

G 102 OE2.2

Reg. No. :

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

**B.A.- SEMESTER II – Degree Examination****May - 2024**

**ECONOMICS – OPEN ELECTIVE**  
**MANAGERIAL ECONOMICS**

Time: 2½ Hours

Max. Marks: 60

**SECTION - A****I. Answer any FIVE of the following:**

(5×2=10)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ:

- How do you explain cost?  
ವೆಚ್ಚವನ್ನು ನೀವು ಹೇಗೆ ವಿವರಿಸುತ್ತೀರಿ?
- What is penetration pricing?  
ನುಗ್ಗುವ ಬೆಲೆ ಎಂದರೇನು?
- Briefly explain product life cycle.  
ಉತ್ಪನ್ನದ ಜೀವನ ಚಕ್ರವನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.
- What is Break – Even analysis?  
ಬ್ರೇಕ್ - ಸಮ ವಿಶ್ಲೇಷಣೆ ಎಂದರೇನು?
- Distinguish between perfect and Imperfect competition.  
ಪರಿಪೂರ್ಣ ಮತ್ತು ಅಪೂರ್ಣ ಸ್ಪರ್ಧೆಯ ನಡುವೆ ವ್ಯತ್ಯಾಸವನ್ನು ಗುರುತಿಸಿ.
- What are the conditions of equilibrium level of output?  
ಉತ್ಪಾದನೆಯ ಸಮತೋಲನ ಮಟ್ಟದ ಪರಿಸ್ಥಿತಿಗಳು ಯಾವುವು?
- What is market?  
ಮಾರುಕಟ್ಟೆ ಎಂದರೇನು?  
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- What do you mean by promotional activity in fixing price?  
ಬೆಲೆ ನಿಗದಿಯಲ್ಲಿ ಪ್ರಚಾರದ ಚಟುವಟಿಕೆಯಿಂದ ನಿಮ್ಮ ಅರ್ಥವೇನು?

**SECTION - B****II. Answer any SIX of the following:**

(6×5=30)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ:

- Briefly explain the features of oligopoly.  
ಒಲಿಗೋಪಾಲಿ ವೈಶಿಷ್ಟ್ಯಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.
- $TC = q^2 + 8q + 4$  and the prevailing price of the product in the market is Rs.32. Find profit maximising level of output?  
 $TC = q^2 + 8q + 4$  ಮತ್ತು ಮಾರುಕಟ್ಟೆಯಲ್ಲಿ ಉತ್ಪನ್ನದ ಚಾಲ್ತಿಯಲ್ಲಿರುವ ಬೆಲೆ 32 ರೂ. ಉತ್ಪಾದನೆಯ ಲಾಭವನ್ನು ಹೆಚ್ಚಿಸುವ ಮಟ್ಟವನ್ನು ಕಂಡುಹಿಡಿಯುವುದೇ?
- Write a note on concepts of revenue.  
ಆದಾಯದ ಪರಿಕಲ್ಪನೆಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
- Write a note on differentials in price.  
ಬೆಲೆಯಲ್ಲಿನ ವ್ಯತ್ಯಾಸಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Contd...2

13. Find the Break-even point if  $TR=5x$  and  $TC=3,000+2x$ .  
 $TR=5x$  ಮತ್ತು  $TC=3,000+2x$  ಆಗಿದ್ದರೆ ಬ್ರೇಕ್-ಈವ್ ಪಾಯಿಂಟ್ ಅನ್ನು ಹುಡುಕಿ.
14. Distinguish between economics and managerial economics.  
 ಅರ್ಥಶಾಸ್ತ್ರ ಮತ್ತು ವ್ಯವಸ್ಥಾಪಕ ಅರ್ಥಶಾಸ್ತ್ರದ ನಡುವೆ ವ್ಯತ್ಯಾಸವನ್ನು ಗುರುತಿಸಿ.
15. Write a note on perfect competition.  
 ಪರಿಪೂರ್ಣ ಸ್ಪರ್ಧೆಯ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
16. Briefly explain the features of monopolistic competition.  
 ಏಕಸ್ವಾಮ್ಯದ ಸ್ಪರ್ಧೆಯ ವೈಶಿಷ್ಟ್ಯಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.
17. Briefly explain cost- output relationship in long run.  
 ದೀರ್ಘಾವಧಿಯಲ್ಲಿ ವೆಚ್ಚ-ಔಟ್‌ಪುಟ್ ಸಂಬಂಧವನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

### SECTION - C

#### III. Answer any TWO of the following:

(2×10=20)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ:

18. If the marginal revenue function is  $MR = 100-4x+3x^2$ . find total revenue and average revenue functions.

ಕನಿಷ್ಠ ಆದಾಯದ ಕಾರ್ಯವು  $MR = 100-4x+3x^2$  ಆಗಿದ್ದರೆ, ಒಟ್ಟು ಆದಾಯ ಮತ್ತು ಸರಾಸರಿ ಆದಾಯ ಕಾರ್ಯಗಳನ್ನು ಹುಡುಕಿ.

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19. Briefly explain cost- output relationship in long run.

ದೀರ್ಘಾವಧಿಯಲ್ಲಿ ವೆಚ್ಚ-ಉತ್ಪಾದನೆಯ ಸಂಬಂಧವನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

20. Given two isolated markets supplied by a single monopolist let the corresponding demand functions be  $p_1 = 12 - q_1$ ,  $p_2 = 20 - q_2$ . The monopolist cost function is  $C = 3 + 2q$ , where  $q = q_1 + q_2$ . What will be the price and sales be in the two markets under a regime of price discrimination?

ಏಕ ಏಕಸ್ವಾಮ್ಯದಿಂದ ಒದಗಿಸಲಾದ ಎರಡು ಪ್ರತ್ಯೇಕ ಮಾರುಕಟ್ಟೆಗಳನ್ನು ನೀಡಿದರೆ, ಅನುಗುಣವಾದ ಬೇಡಿಕೆ ಕಾರ್ಯಗಳು  $p_1 = 12 - q_1$ ,  $p_2 = 20 - q_2$  ಆಗಿರಲಿ. ಏಕಸ್ವಾಮ್ಯದ ವೆಚ್ಚದ ಕಾರ್ಯವು  $C = 3 + 2q$  ಆಗಿರುತ್ತದೆ, ಅಲ್ಲಿ  $q = q_1 + q_2$ . ಬೆಲೆ ತಾರತಮ್ಯದ ಆಡಳಿತದ ಅಡಿಯಲ್ಲಿ, ಎರಡು ಮಾರುಕಟ್ಟೆಗಳಲ್ಲಿ ಬೆಲೆ ಮತ್ತು ಮಾರಾಟ ಹೇಗಿರುತ್ತದೆ?

21. Prove that  $BEQ = TFC/ P- AVC$ .

$BEQ = TFC/ P- AVC$  ಎಂದು ಸಾಬೀತುಪಡಿಸಿ.

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(2023 Batch Onwards)

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**St Aloysius College (Autonomous)****Mangaluru****B.A. Semester II – Degree Examination****May - 2024****POLITICAL SCIENCE – OPEN ELECTIVE****INDIAN POLITY ISSUES AND CONCERNS****STALOYSIUS COLLEGE LIBRARY****MANGALURU - 575 003**

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.

ಫಿಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಕಡ್ಡಾಯವಾಗಿ ಉತ್ತರಿಸಿ.

1. What is social harmony?

- |   |  |
|---|--|
| a) The absence of diversity within a society                  | b) The dominance of one group over others in society                   |
| c) The peaceful coexistence and cooperation among individuals | d) The promotion of conflicts and tensions among various social groups |

ಸಾಮಾಜಿಕ ಸಾಮರಸ್ಯ ಎಂದರೇನು?

- |  |  |
|--|--|
| ಅ) ಸಮಾಜದೊಳಗೆ ವೈವಿಧ್ಯತೆಯ ಅನುಪಸ್ಥಿತಿ             | ಆ) ಸಮಾಜದಲ್ಲಿ ಇತರರ ಮೇಲೆ ಒಂದು ಗುಂಪಿನ ಪ್ರಾಬಲ್ಯ                        |
| ಇ) ವ್ಯಕ್ತಿಗಳ ನಡುವೆ ಶಾಂತಿಯುತ ಸಹಬಾಳೆ ಮತ್ತು ಸಹಕಾರ | ಈ) ವಿವಿಧ ಸಾಮಾಜಿಕ ಗುಂಪುಗಳ ನಡುವೆ ಘರ್ಷಣೆಗಳು ಮತ್ತು ಉದ್ವಿಗ್ನತೆಗಳ ಪ್ರಚಾರ |

2. What is language?

- |   |   |
|---|---|
| a) A system of communication using gestures and body language | b) A structured system of symbols and rules used for communication among humans |
| c) A set of vocal sounds used by animals to convey messages   | d) A form of non-verbal communication exclusively used by humans                |

ಭಾಷೆ ಎಂದರೇನು?

- |   |  |
|---|--|
| ಅ) ಸನ್ನೆಗಳು ಮತ್ತು ದೇಹ ಭಾಷೆಯನ್ನು ಬಳಸುವ ಸಂವಹನ ವ್ಯವಸ್ಥೆ          | ಆ) ಮಾನವರ ನಡುವೆ ಸಂವಹನಕ್ಕಾಗಿ ಬಳಸುವ ಸಂಕೇತಗಳು ಮತ್ತು ನಿಯಮಗಳ ರಚನಾತ್ಮಕ ವ್ಯವಸ್ಥೆ |
| ಇ) ಸಂದೇಶಗಳನ್ನು ರವಾನಿಸಲು ಪ್ರಾಣಿಗಳು ಬಳಸುವ ಗಾಯನ ಶಬ್ದಗಳ ಒಂದು ಸೆಟ್ | ಈ) ಮನುಷ್ಯರಿಂದ ಪ್ರತ್ಯೇಕವಾಗಿ ಬಳಸುವ ಮೌಖಿಕ ಸಂವಹನದ ಒಂದು ರೂಪ                   |

3. Which article of the Indian Constitution deals with the official language or languages of a State?

- |        |        |
|--------|--------|
| a) 343 | b) 344 |
| c) 345 | d) 346 |

ಭಾರತೀಯ ಸಂವಿಧಾನದ ಯಾವ ವಿಧಿಯು ರಾಜ್ಯದ ಅಧಿಕೃತ ಭಾಷೆ ಅಥವಾ ಭಾಷೆಗಳ ಬಗ್ಗೆ ವ್ಯವಹರಿಸುತ್ತದೆ?

- |        |        |
|--------|--------|
| ಅ) 343 | ಆ) 344 |
| ಇ) 345 | ಈ) 346 |

Contd...2

4. What role does religion play in reinforcing the caste system?
- a) Religion promotes equality among all caste groups.      b) Religion encourages inter-caste marriages to eliminate caste distinctions.
- c) Religious teachings often reinforce caste-based hierarchy and purity.      d) Religion has no influence on the caste system

ಜಾತಿ ವ್ಯವಸ್ಥೆಯನ್ನು ಬಲಪಡಿಸುವಲ್ಲಿ ಧರ್ಮವು ಯಾವ ಪಾತ್ರವನ್ನು ವಹಿಸುತ್ತದೆ?

ಅ) ಧರ್ಮವು ಎಲ್ಲಾ ಜಾತಿ ಗುಂಪುಗಳಲ್ಲಿ ಸಮಾನತೆಯನ್ನು ಉತ್ತೇಜಿಸುತ್ತದೆ.      ಆ) ಜಾತಿ ಭೇದಗಳನ್ನು ತೊಡೆದುಹಾಕಲು ಅಂತರ್ಜಾತಿ ವಿವಾಹಗಳನ್ನು ಧರ್ಮವು ಪ್ರೋತ್ಸಾಹಿಸುತ್ತದೆ

ಇ) ಧಾರ್ಮಿಕ ಬೋಧನೆಗಳು ಸಾಮಾನ್ಯವಾಗಿ ಜಾತಿ-ಆಧಾರಿತ ಕ್ರಮಾನುಗತ ಮತ್ತು ಶುದ್ಧತೆಯನ್ನು ಬಲಪಡಿಸುತ್ತವೆ.      ಈ) - ಜಾತಿ ವ್ಯವಸ್ಥೆಯ ಮೇಲೆ ಧರ್ಮವು ಯಾವುದೇ ಪ್ರಭಾವ ಬೀರುವುದಿಲ್ಲ.

5. What is the potential downside of excessive regionalism?

- a) Strengthening national unity      b) Fragmentation and disintegration of the country
- c) Fostering economic development      d) Promoting cultural exchange and diversity

ಮಿತಿಮೀರಿದ ಪ್ರಾದೇಶಿಕತೆಯ ಸಂಭಾವ್ಯ ಅನಾನುಕೂಲತೆ ಏನು?

ಅ) ರಾಷ್ಟ್ರೀಯ ಏಕತೆಯನ್ನು ಬಲಪಡಿಸುವುದು      ಆ) ದೇಶದ ವಿಭಜನೆ ಮತ್ತು ಅದರ ವಿಘಟನೆ

ಇ) ಆರ್ಥಿಕ ಅಭಿವೃದ್ಧಿಯನ್ನು ಉತ್ತೇಜಿಸುವುದು      ಈ) ಸಾಂಸ್ಕೃತಿಕ ವಿನಿಮಯ ಮತ್ತು ಪೈವಿಧ್ಯತೆಯನ್ನು ಉತ್ತೇಜಿಸುವುದು

6. Which of the following statements is true regarding Article 28 of the Indian Constitution?

- a) It allows religious instruction in state-funded educational institutions.      b) It prohibits religious instruction in governmental educational institutions.
- c) It applies only to religious minority institutions.      d) It mandates religious instruction in all educational institutions.

ಭಾರತೀಯ ಸಂವಿಧಾನದ 28 ನೇ ವಿಧಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಈ ಕೆಳಗಿನ ಯಾವ ಹೇಳಿಕೆಯು ನಿಜವಾಗಿದೆ?

ಅ) ಇದು ರಾಜ್ಯದ ಅನುದಾನಿತ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಗಳಲ್ಲಿ ಧಾರ್ಮಿಕ ಬೋಧನೆಯನ್ನು ಅನುಮತಿಸುತ್ತದೆ.      ಆ) ಇದು ರಾಜ್ಯದ ಸರ್ಕಾರಿ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಗಳಲ್ಲಿ ಧಾರ್ಮಿಕ ಬೋಧನೆಯನ್ನು ನಿಷೇಧಿಸುತ್ತದೆ.

ಇ) ಇದು ಧಾರ್ಮಿಕ ಅಲ್ಪಸಂಖ್ಯಾತ ಸಂಸ್ಥೆಗಳಿಗೆ ಮಾತ್ರ ಅನ್ವಯಿಸುತ್ತದೆ.      ಈ) ಇದು ಎಲ್ಲಾ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಗಳಲ್ಲಿ ಧಾರ್ಮಿಕ ಬೋಧನೆಯನ್ನು ಕಡ್ಡಾಯಗೊಳಿಸುತ್ತದೆ.

7. What is the primary concern of regionalist movements?

- a) Preservation of national identity      b) Protection of regional autonomy and interests
- c) Promotion of global integration      d) Establishment of a centralized government

ಪ್ರಾದೇಶಿಕ ಚಳುವಳಿಗಳ ಪ್ರಾಥಮಿಕ ಕಾಳಜಿ ಏನು?

ಅ) ರಾಷ್ಟ್ರೀಯ ಗುರುತಿನ ಸಂರಕ್ಷಣೆ      ಆ) ಪ್ರಾದೇಶಿಕ ಸ್ವಾಯತ್ತತೆ ಮತ್ತು ಹಿತಾಸಕ್ತಿಗಳ ರಕ್ಷಣೆ

ಇ) ಜಾಗತಿಕ ಏಕೀಕರಣದ ಪ್ರಚಾರ      ಈ) ಕೇಂದ್ರೀಕೃತ ಸರ್ಕಾರದ ಸ್ಥಾಪನೆ

8. How can corruption affect economic development?

- |   |   |
|---|---|
| a) By promoting fair competition and entrepreneurship                         | b) By encouraging foreign direct investment and economic growth |
| c) By diverting resources away from productive investments and infrastructure | d) By reducing income inequality and poverty                    |

ಭ್ರಷ್ಟಾಚಾರ ಆರ್ಥಿಕ ಅಭಿವೃದ್ಧಿಯ ಮೇಲೆ ಹೇಗೆ ಪರಿಣಾಮ ಬೀರಬಹುದು?

- |  |   |
|--|---|
| ಅ) ನ್ಯಾಯಯುತ ಸ್ಪರ್ಧೆ ಮತ್ತು ಉದ್ಯಮಶೀಲತೆಯನ್ನು ಉತ್ತೇಜಿಸುವ ಮೂಲಕ                        | ಆ) ವಿದೇಶಿ ನೇರ ಹೂಡಿಕೆ ಮತ್ತು ಆರ್ಥಿಕ ಬೆಳವಣಿಗೆಯನ್ನು ಉತ್ತೇಜಿಸುವ ಮೂಲಕ |
| ಇ) ಉತ್ಪಾದಕ ಹೂಡಿಕೆಗಳು ಮತ್ತು ಮೂಲಸೌಕರ್ಯಗಳಿಂದ ಸಂಪನ್ಮೂಲಗಳನ್ನು ಬೇರೆಡೆಗೆ ತಿರುಗಿಸುವ ಮೂಲಕ | ಈ) ಆದಾಯದ ಅಸಮಾನತೆ ಮತ್ತು ಬಡತನವನ್ನು ಕಡಿಮೆ ಮಾಡುವ ಮೂಲಕ               |

9. Which of the following is NOT a characteristic of terrorism?

- |   |   |
|---|---|
| a) Targeting civilians or non-combatants      | b) Striving for socio-political change through peaceful means |
| c) Utilizing fear and intimidation as tactics | d) Aimed at achieving ideological objectives                  |

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದು ಭಯೋತ್ಪಾದನೆಯ ಲಕ್ಷಣವಲ್ಲ?

- |   |   |
|---|---|
| ಅ) ನಾಗರಿಕರು ಅಥವಾ ಹೋರಾಟಗಾರರಲ್ಲದವರನ್ನು ಗುರಿಯಾಗಿಸುವುದು | ಆ) ಶಾಂತಿಯುತ ವಿಧಾನಗಳ ಮೂಲಕ ಸಾಮಾಜಿಕ-ರಾಜಕೀಯ ಬದಲಾವಣೆಗೆ ಶ್ರಮಿಸುವುದು |
| ಇ) ಭಯ ಮತ್ತು ಬೆದರಿಕೆಯನ್ನು ತಂತ್ರಗಳಾಗಿ ಬಳಸುವುದು        | ಈ) ಸೈದ್ಧಾಂತಿಕ ಉದ್ದೇಶಗಳನ್ನು ಸಾಧಿಸುವ ಗುರಿಯನ್ನು ಹೊಂದಿದೆ          |

10. What is cultural diversity?

- |  |  |
|--|--|
| a) The existence of different species within an ecosystem        | b) The range of customs, traditions, languages, and beliefs within a society |
| c) The variation of physical characteristics within a population | d) The distribution of wealth and resources among individuals                |

ಸಾಂಸ್ಕೃತಿಕ ವೈವಿಧ್ಯ ಎಂದರೇನು?

- |  |   |
|--|---|
| ಅ) ಪರಿಸರ ವ್ಯವಸ್ಥೆಯೊಳಗೆ ವಿವಿಧ ಜಾತಿಗಳ ಅಸ್ತಿತ್ವ | ಆ) ಸಮಾಜದೊಳಗಿನ ಪದ್ಧತಿಗಳು, ಸಂಪ್ರದಾಯಗಳು, ಭಾಷೆಗಳು ಮತ್ತು ನಂಬಿಕೆಗಳ ವ್ಯಾಪ್ತಿ |
| ಇ) ಜನಸಂಖ್ಯೆಯೊಳಗಿನ ಭೌತಿಕ ಗುಣಲಕ್ಷಣಗಳ ವ್ಯತ್ಯಾಸ  | ಈ) ವ್ಯಕ್ತಿಗಳ ನಡುವೆ ಸಂಪತ್ತು ಮತ್ತು ಸಂಪನ್ಮೂಲಗಳ ವಿತರಣೆ                    |

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MANGALURU - 575 003

**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. What are the primary obstacles hindering the process of national integration?

ರಾಷ್ಟ್ರೀಯ ಏಕೀಕರಣದ ಪ್ರಕ್ರಿಯೆಗೆ ಅಡ್ಡಿಯಾಗುವ ಪ್ರಾಥಮಿಕ ಅಡೆತಡೆಗಳು ಯಾವುವು?

12. What are the primary challenges confronting inclusiveness and development governance in India?

ಭಾರತದಲ್ಲಿ ಅಂತರ್ಗತ ಮತ್ತು ಅಭಿವೃದ್ಧಿ ಆಡಳಿತವನ್ನು ಎದುರಿಸುತ್ತಿರುವ ಪ್ರಾಥಮಿಕ ಸವಾಲುಗಳು ಯಾವುವು?

Contd...4

13. What are the root causes and systemic challenges that foster the widespread occurrence of corruption?  
 ಭ್ರಷ್ಟಾಚಾರದ ವ್ಯಾಪಕ ಸಂಭವವನ್ನು ಉತ್ತೇಜಿಸುವ ಮೂಲ ಕಾರಣಗಳು ಮತ್ತು ವ್ಯವಸ್ಥಿತ ಸವಾಲುಗಳು ಯಾವುವು?

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 SECTION - C MANGALURU - 575 003

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

ಯಾವುದೇ ಒಂದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ. ಕೆಳಗಿನವುಗಳಿಗೆ 800 ಪದಗಳಿಗಿಂತ ಹೆಚ್ಚಿಲ್ಲದಂತೆ ಉತ್ತರಿಸಿ.

14. What are the inherent challenges in comprehending the caste system as a social structure in India?  
 ಭಾರತದಲ್ಲಿ ಜಾತಿ ವ್ಯವಸ್ಥೆಯನ್ನು ಸಾಮಾಜಿಕ ರಚನೆಯಾಗಿ ಗ್ರಹಿಸುವಲ್ಲಿ ಅಂತರ್ಗತವಾಗಿರುವ ಸವಾಲುಗಳು ಯಾವುವು?
15. What are the key issues surrounding development in India?  
 ಭಾರತದಲ್ಲಿ ಅಭಿವೃದ್ಧಿಗೆ ಸಂಬಂಧಿಸಿದ ಪ್ರಮುಖ ಸಮಸ್ಯೆಗಳು ಯಾವುವು?
16. What are the various obstacles and difficulties hindering the celebration and promotion of diversity in India?  
 ಭಾರತದಲ್ಲಿ ವೈವಿಧ್ಯತೆಯ ಆಚರಣೆ ಮತ್ತು ಪ್ರಚಾರಕ್ಕೆ ಅಡ್ಡಿಯಾಗಿರುವ ವಿವಿಧ ಅಡೆತಡೆಗಳು ಮತ್ತು ತೊಂದರೆಗಳು ಯಾವುವು?

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(2021 batch onwards)

G 104 OE1.2

Reg. No:

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

**B.A. Semester II – Degree Examination**  
**May - 2024**

**SOCIOLOGY - OPEN ELECTIVE**  
**SOCIETY THROUGH GENDER LENS**

Time: 2½ Hours

Max. Marks: 60

**PART - A**

Answer any **FIVE** questions in 2-3 sentences each. (5x2=10)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ 2-3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. What is the meaning of gender relations?  
ಲಿಂಗ ಸಂಬಂಧಗಳ ಅರ್ಥವೇನು?
2. Mention any two traditional gender roles in the division of labour.  
ಕಾರ್ಮಿಕರ ವಿಭಜನೆಯಲ್ಲಿ ಯಾವುದೇ ಎರಡು ಸಾಂಪ್ರದಾಯಿಕ ಲಿಂಗ ಪಾತ್ರಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿರಿ.
3. What is the meaning of gender sensitivity?  
ಲಿಂಗ ಸೂಕ್ಷ್ಮತೆಯ ಅರ್ಥವೇನು?
4. What is the meaning of political representation of gender?  
ಲಿಂಗದ ರಾಜಕೀಯ ಪ್ರಾತಿನಿಧ್ಯದ ಅರ್ಥವೇನು?
5. Mention the dos and don'ts of companies towards sexual harassment.  
ಲೈಂಗಿಕ ಕಿರುಕುಳದ ಬಗ್ಗೆ ಕಂಪನಿಗಳು ಮಾಡಬೇಕಾದ ಮತ್ತು ಮಾಡಬಾರದ ಸಂಗತಿಗಳನ್ನು ತಿಳಿಸಿರಿ.
6. What is the motive behind cybercrime?  
ಸೈಬರ್ ಅಪರಾಧದ ಹಿಂದಿನ ಉದ್ದೇಶವೇನು?
7. What are the three rights protected under CEDAW?  
CEDAW ಅಡಿಯಲ್ಲಿ ರಕ್ಷಿಸಲಾದ ಮೂರು ಹಕ್ಕುಗಳು ಯಾವುವು?
8. What is the significance of 73rd Constitutional Amendment?  
73ನೇ ಸಂವಿಧಾನಿಕ ತಿದ್ದುಪಡಿಯ ಮಹತ್ವವೇನು?

**PART - B**

Answer any **SIX** of the following.

(6x5=30)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಆರನ್ನು ಉತ್ತರಿಸಿರಿ.

9. Mention the secondary characteristics of sex.  
ಲೈಂಗಿಕತೆಯ ದ್ವಿತೀಯಕ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿರಿ.
10. How to promote gender equality in your community?  
ನಿಮ್ಮ ಸಮುದಾಯದಲ್ಲಿ ಲಿಂಗ ಸಮಾನತೆಯನ್ನು ಹೇಗೆ ಪ್ರಚಾರ ಮಾಡುವುದು?

Contd...2



11. Write a note on gender-based violence.  
ಲಿಂಗ ಆಧಾರಿತ ಹಿಂಸೆಯ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
12. Propose the strategies to increase the representation of women in various spheres.  
ವಿವಿಧ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಮಹಿಳೆಯರ ಪ್ರಾತಿನಿಧ್ಯವನ್ನು ಹೆಚ್ಚಿಸುವ ಕಾರ್ಯತಂತ್ರಗಳನ್ನು ಪ್ರಸ್ತಾಪಿಸಿರಿ.
13. What are the causes of domestic violence?  
ಕೌಟುಂಬಿಕ ಹಿಂಸೆಗೆ ಕಾರಣಗಳೇನು?
14. Identify the root causes of dowry related violences.  
ವರದಕ್ಷಿಣೆ ಸಂಬಂಧಿತ ಹಿಂಸೆಗಳ ಮೂಲ ಕಾರಣಗಳನ್ನು ಗುರುತಿಸಿರಿ.
15. Identify the objectives in the enactment of 73rd and 74th Constitutional Amendments.  
73ನೇ ಮತ್ತು 74ನೇ ಸಾಂವಿಧಾನಿಕ ತಿದ್ದುಪಡಿಗಳ ಜಾರಿಯಲ್ಲಿನ ಉದ್ದೇಶಗಳನ್ನು ಗುರುತಿಸಿ.
16. Mention few community-based projects that are aimed at empowerment of women.  
ಮಹಿಳೆಯರ ಸಬಲೀಕರಣದ ಗುರಿಯನ್ನು ಹೊಂದಿರುವ ಕೆಲವು ಸಮುದಾಯ ಆಧಾರಿತ ಯೋಜನೆಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿರಿ.
17. State the importance of gender equity.  
ಲಿಂಗ ಸಮಾನತೆಯ ಮಹತ್ವವನ್ನು ತಿಳಿಸಿರಿ.

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**PART - C**

**Answer any TWO of the following.**

**(2x10=20)**

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಎರಡನ್ನು ಉತ್ತರಿಸಿರಿ.

18. Analyse the socio-economic conditions of the third gender.  
ಮೂರನೇ ಲಿಂಗದ ಸಾಮಾಜಿಕ-ಆರ್ಥಿಕ ಪರಿಸ್ಥಿತಿಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ.
19. Evaluate the role of media and culture in perpetuating honour killing.  
ಮರ್ಯಾದಾ ಹತ್ಯೆಯನ್ನು ಮುಂದುವರಿಸುವಲ್ಲಿ ಮಾಧ್ಯಮ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಪಾತ್ರವನ್ನು ಮೌಲ್ಯಮಾಪನ ಮಾಡಿರಿ.
20. Propose ways in which existing gender justice laws can be implemented more effectively.  
ಅಸ್ತಿತ್ವದಲ್ಲಿರುವ ಲಿಂಗ ನ್ಯಾಯ ಕಾನೂನುಗಳನ್ನು ಹೆಚ್ಚು ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಕಾರ್ಯಗತಗೊಳಿಸಬಹುದಾದ ಮಾರ್ಗಗಳನ್ನು ಪ್ರಸ್ತಾಪಿಸಿರಿ.
21. Assess the role of media in challenging gender stereotypes and efforts towards gender justice.  
ಲಿಂಗ ಸ್ಥಿರೀಯೋತ್ಪಾದಕಗಳನ್ನು ಸವಾಲು ಮಾಡುವಲ್ಲಿ ಮಾಧ್ಯಮದ ಪಾತ್ರವನ್ನು ನಿರ್ಣಯಿಸಿ ಮತ್ತು ಲಿಂಗ ನ್ಯಾಯದ ಕಡೆಗೆ ಪ್ರಯತ್ನಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ.

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(2021 batch onwards)

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

**B.A. Semester II – Degree Examination**  
**May- 2024**

**Open Elective**  
**PHOTO JOURNALISM**

Time: 2 ½ Hours

Max. Marks: 60

**I Answer any Five of the following** **ST ALOYSIUS COLLEGE LIBRARY (5X10=50)**  
**MANGALURU - 575 003**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

1. Can you recall the main characteristics and features of manual cameras? Provide a brief overview of how manual cameras operate, including the role of aperture, Shutter speed, and focus in image capture.

ಮ್ಯಾನುವೆಲ್ ಕ್ಯಾಮೆರಾಗಳ ಗುಣಲಕ್ಷಣಗಳನ್ನು ಬರೆಯಿರಿ. ಅವುಗಳ ಕಾರ್ಯವೈಖರಿ, ಅಪಾರ್ಚರ್, ಶಟ್ಲರ್ ಸ್ಪೀಡ್ ಹಾಗೂ ಫೋಕಸ್‌ನ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ.

2. How does the direction of light affect the appearance of a subject in photography?

ಛಾಯಾಗ್ರಹಣದಲ್ಲಿ ವಿಷಯದ ಪರಿಣಾಮಕಾರಿ ಚಿತ್ರಣಕ್ಕೆ ಬೆಳಕಿನ ದಿಕ್ಕಿನ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿ

3. Analyze the impact of citizen photojournalism and user-generated content on traditional media practices.

ಸಾಂಪ್ರದಾಯಿಕ ಮಾಧ್ಯಮದಲ್ಲಿ ನಾಗರಿಕ ಛಾಯಾಚಿತ್ರ ಪತ್ರಿಕೋದ್ಯಮ ಹಾಗೂ ಬಳಕೆದಾರರು ಸೃಷ್ಟಿಸುವ ವಿಷಯದ ಪಾತ್ರ ಹಾಗೂ ಪ್ರಭಾವವನ್ನು ವಿವರಿಸಿ.

4. Analyze the role of photojournalists as eyewitnesses and interpreters of events.

ಕೆಲವು ಘಟನೆಗಳ ಪ್ರತ್ಯಕ್ಷದರ್ಶಿಗಳು ಮತ್ತು ವ್ಯಾಖ್ಯಾನಕಾರರಾಗಿ ಛಾಯಾಚಿತ್ರ ಪತ್ರಕರ್ತರ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿ.

5. What are the primary tools and functions available in photo editing software for image manipulation and enhancement?

ಚಿತ್ರ ಬದಲಾವಣೆ ಹಾಗೂ ವೃದ್ಧಿಗಾಗಿ ಲಭ್ಯವಿರುವ ಫೋಟೋ ಎಡಿಟಿಂಗ್ ಸಾಫ್ಟ್‌ವೇರ್‌ಗಳ ಕಾರ್ಯವೈಖರಿ ಹಾಗೂ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

6. How do captions influence the way viewers interpret and emotionally connect with images, and how can photojournalists use captions strategically to convey their intended messages?

ಛಾಯಾಚಿತ್ರಗಳೊಂದಿಗೆ ವೀಕ್ಷಕರು ಮಾನಸಿಕವಾಗಿ ಸಂಪರ್ಕಗೊಳ್ಳಲು ಫೋಟೋ ಕ್ಯಾಪ್ಷನ್‌ಗಳು ಹೇಗೆ ಸಹಾಯ ಮಾಡಬಲ್ಲವು?

7. Evaluate the effectiveness of different digital platforms for distributing photos/videos to diverse audiences.

ವಿವಿಧ ಪ್ರೇಕ್ಷಕರಿಗೆ ಫೋಟೋ ಮತ್ತು ವಿಡಿಯೋ ಪ್ರಸಾರದಲ್ಲಿ ವಿವಿಧ ಡಿಜಿಟಲ್ ಪಾತ್ರಗಳ ಪರಿಣಾಮವನ್ನು ಮೌಲ್ಯಮಾಪನ ಮಾಡಿ.

**II Write short notes**

(4X 2½=10)

ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

- |                        |                       |
|------------------------|-----------------------|
| 1. MoJo                | ಮೋ.ಪ.                 |
| 2. Visual storytelling | ದೃಶ್ಯ ಕಥನನಿರೂಪಣೆ      |
| 3. Raghu Rai           | ರಾಘು ರೈ               |
| 4. Exposure triangle   | ಎಕ್ಸ್‌ಪೋಷರ್ ಟ್ರಯಾಂಗಲ್ |

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**St Aloysius College (Autonomous) Mangaluru**  
**B.A. Semester II – Degree Examination**  
**MAY - 2024**

ಕನ್ನಡ ಐಚ್ಛಿಕ - II (ಪದವಿ ಮುಕ್ತ ಆಯ್ಕೆ ಕನ್ನಡ ಪತ್ರಿಕೆ)

ಸಾಚಿತ್ರ: ಸಿನೆಮಾ ಮತ್ತು ಸಾಹಿತ್ಯ

Time: 2½ hrs.

Max Marks: 60

I. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (7x3=21)

Answer any three long essay type questions

1. 'ನೇಬರ್ಸ್' ಕಿರುಚಿತ್ರ ಏನು ಹೇಳುತ್ತದೆ? ವಿಶ್ಲೇಷಣೆ ಮಾಡಿ
2. 'ಚೋಮನ ದುಡಿ' ಸಿನಿಮಾ ಕಾದಂಬರಿ ಬೀರಿದ ಪರಿಣಾಮವನ್ನು ಬೀರಿದೆಯೋ? ಇಲ್ಲವೋ? ಚರ್ಚಿಸಿ
3. ಜಾಗತಿಕ ನೆಲೆಯಲ್ಲಿ ಸಿನಿಮಾಪು ಹೇಗೆ ಹುಟ್ಟಿತು ಮತ್ತು ಬೆಳೆಯಿತು ಎಂಬುದನ್ನು ಬರೆಯಿರಿ
4. ಸಿನಿಮಾದ ಪೂರ್ವ ನಿರ್ಮಾಣದ ಕೆಲಸಗಳು ಯಾಕೆ ಮಹತ್ವದ್ದಾಗಿರುತ್ತವೆ? ವಿವರಿಸಿರಿ
5. 'ಕಾವ್ಯ ಮತ್ತು ಚಲನಚಿತ್ರ' ಮಧ್ಯೆ ಇರುವ ವಿಶಿಷ್ಟ ಸಂಬಂಧಗಳನ್ನು ಒಂದು ಉದಾಹರಣೆಯ ಮೂಲಕ ವಿವರಿಸಿರಿ
6. ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿಯವರ ಆಶಯ ಸಿನೆಮಾದಲ್ಲಿ ಸರಿಯಾಗಿಯೇ ವ್ಯಕ್ತವಾಗಿದೆಯೇ? ಡೇರ್ ಡೆವಿಲ್ ಮುಸ್ತಾಫಾ ಸಿನಿಮಾದ ಆಧಾರದಲ್ಲಿ ಚರ್ಚಿಸಿ

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**MANGALURU - 575 083**

II. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3x3=09)

Answer any three short essay type questions

7. 'ಮುಠಿಲೆ' ಖೀಡಿಯೋ ಕವಿತೆಯ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ
8. 'ಚೋಮನದುಡಿ' ಸಿನಿಮಾಕ್ಕೆ ಸಿಕ್ಕ ಮಾನ್ಯತೆಗಳು ಹಾಗೂ ಪ್ರಶಸ್ತಿಗಳ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ
9. 'ಪರೋಕ್ಷ' ಸಿನಿಮಾದಲ್ಲಿ ಮೂಡನಂಬಿಕೆಗಳನ್ನು ಹೇಗೆ ವ್ಯಂಗ್ಯ ಮಾಡಿದ್ದಾರೆ. ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ
10. ಐತಿಹಾಸಿಕ ಸಿನಿಮಾಗಳಲ್ಲಿ ಕಲಾವಿಭಾಗದ ಪ್ರಾಮುಖ್ಯತೆ ಏನು? ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ
11. 'ಕಥಾಸಂಗಮ'ದ 'ರೈನೋಲ್ಫೊಂಡ್' ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ
12. ಕನ್ನಡ ಸಿನೆಮಾರಂಗವನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿಶ್ಲೇಷಣೆ ಮಾಡಿ

III. ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಕಾವ್ಯಭಾಗಕ್ಕೆ ರಂಗರೂಪವನ್ನು ನೀಡಿ (4x1=04)

Discuss the adaptations and elements needed to make one of the written part into a play

13. ಮುಕ್ತಿ  
 ರಾಜಕಾರಣಿ ಅದೊಂದು ಸ್ನಂಗೆ ಭೇಟಿ ನೀಡಿದ.  
 ಸಾವಿರಾರು ಗುಡಿಸಲುಗಳಿರುವ ಸ್ನಂ ಅದು.  
 ಅಲ್ಲಿನ ಬಡತನ, ಕಷ್ಟ ಕಂಡು ರಾಜಕಾರಣಿ ತುಂಬಾ ನೊಂದುಕೊಂಡ.  
 ತಕ್ಷಣ ತನ್ನ ಜೊತೆಗಿದ್ದ ಅಧಿಕಾರಿಗೆ ಆದೇಶಿಸಿದ "  
 ಈ ಬಡತನ, ನೋವಿಗೆ ಮುಕ್ತಿ ಕೊಡಿ. ಇವರನ್ನು ಮೇಲೆತ್ತಿ ಮುಂದಿನ ವರ್ಷ ಬಂದಾಗ ಇಲ್ಲಿ ಬಡತನ  
 ಅನ್ನೋದೆ ಇರಬಾರದು"  
 ಅಧಿಕಾರಿ "ಸರಿ ಸಾರ್" ಎಂದ.  
 ಮರುದಿನ ಆ ಸ್ನಂಗೆ ಆಕಸ್ಮಿಕವಾಗಿ ಬೆಂಕಿ ಬಿದ್ದು, ಅಷ್ಟೂ ಬಡವರು ಸುಟ್ಟು ಬೂದಿಯಾದರು.  
 ಮುಂದಿನ ವರ್ಷ ಅಲ್ಲಿ ತಲೆಯೆತ್ತಿದ್ದ ಕಾಂಪ್ಲೆಕ್ಸ್‌ನ್ನು ಉದ್ಘಾಟಿಸಲು ಆ ರಾಜಕಾರಣಿ ಬಂದಾಗ, ಅಲ್ಲಿಲ್ಲ  
 ಶ್ರೀಮಂತರೇ ರಾರಾಜಿಸುತ್ತಿದ್ದರು.  
 ರಾಜಕಾರಣಿ ಅಧಿಕಾರಿಯನ್ನು ಮೆಚ್ಚುಗೆಯಿಂದ ನೋಡಿದ.

14. ಹೀಗೆಂದು ಪತ್ರ

ಸಾಧಾರಣವಾಗಿ ಆತ ಇಮೇಲ್ ಮೂಲಕ, ಮೊಬೈಲ್‌ಗಳ ಮೂಲಕವೇ ಮಿತ್ರರ ಸಂದೇಶಗಳನ್ನು ಸ್ವೀಕರಿಸುವುದು. ಹೀಗಿರುವಾಗ ಒಂದು ದಿನ ಆತನಿಗೆ ಇನ್‌ಲೇಂಡ್ ಲೆಟರ್‌ನಲ್ಲಿ ಒಂದು ಪತ್ರ ಬಂತು. ಆರೆ! ನನಗೆ ಪ್ರೋಸ್ಟ್ ಮೂಲಕ ಪತ್ರವೆ? ಯಾರಿಂದ? ಎಲ್ಲಿಂದ? ಅವನಿಗೆ ಅಚ್ಚರಿಯಾಯಿತು. ಪ್ರೋಸ್ಟ್‌ಮೇನನ್ನು ನೋಡಿದ. ಒಣಗಿದ ಮುಖ. ಆತ ಪ್ರೋಸ್ಟ್‌ಮೇನ್‌ಗೆ ಹೇಳಿದ "ನನಗೆ ಪತ್ರ ಬರೆಯುವವರು ಯಾರೂ ಇಲ್ಲ"

ಪ್ರೋಸ್ಟ್ ಮೇನ್ ಉತ್ತರಿಸಿದ "ಇತ್ತೀಚೆಗೆ ನಮ್ಮ ಕಚೇರಿಯಿಂದ ರವಾನಿಸಲು ಪತ್ರಗಳೇ ಇಲ್ಲ. ಹೀಗೆ ಆದರೆ ನನ್ನ ಕೆಲಸವೇ ಹೋಗಿ ಬಿಡುತ್ತೆ. ಆದುದರಿಂದ ನಾನೇ ಎಲ್ಲ ವಿಳಾಸ ಹುಡುಕಿ ಪತ್ರ ಬರೆಯುತ್ತಿದ್ದೇನೆ. ಪ್ರೀಸ್ ತಗೊಳ್ಳಿ...."

IV. ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

(2x2=04)

Write short notes for any TWO of the following

15. ಕೆ.ಪಿ.ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
16. ಸು.ರಂ. ಎಕ್ಕುಂಡಿ
17. ಜಾಲಿಜಿ ಚಾಪ್ಲಿನ್
18. Continuity Department

V. ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

(2x2=04)

Write short notes for any TWO of the following

19. ಪಡ್ಡಾಯಿ
20. ಮಿಥಿಲೆಯ ನಟನೆ
21. ಕಾರ್ತಿಕಿ ಗೊನ್ನಾಲ್ವಿಸ್ ನಿರ್ದೇಶನದ ಕಿರು ಸಾಕ್ಷಚಿತ್ರ
22. ಸುನಿಲ್ ಕುಮಾರ್ ದೇಸಾಯಿ

VI. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ

(1x10=10)

Answer the following in ONE sentence each

23. ವಿಸ್ತರಿಸಿ ಬರೆಯಿರಿ. FTII
24. ಗುಂಪಿಗೆ ಸೇರದ ಪದ ತಿಳಿಸಿ. (ಸಂಗೀತ ವಿಭಾಗ, ಕಲಾವಿಭಾಗ, ಬೆಳಕಿನವಿಭಾಗ, ಸರ್ವೆ ವಿಭಾಗ)
25. 'ಜೋಮನ ದುಡಿ' ಸಿನಿಮಾದ ಸಂಗೀತ ನಿರ್ದೇಶಕರು ಯಾರು?
26. 'ಡೇರ್.ಡೆವಿಲ್ ಮುಸ್ತಾಫಾ' ಸಿನಿಮಾ ಯಾವ ವರ್ಷ ಬಿಡುಗಡೆಯಾಯಿತು?
27. 'ನೇಬರ್ಸ್' ಕಿರುಚಿತ್ರ ಯಾವ ವರ್ಷ ಬಿಡುಗಡೆಯಾಯಿತು?
28. 'ನೀವಲ್ಲವೇ' ವೀಡಿಯೋ ಚಿತ್ರಕೆಯನ್ನು ನಿರ್ಮಿಸಿದವರು ಯಾರು?
29. 'ಸಂಸ್ಕಾರ' ಸಿನಿಮಾದ ನಿರ್ಮಾಪಕರು ಯಾರು?
30. 'ಕನ್ನಡ ಚಿತ್ರರಂಗದ ಮೊರೆ' ಎಂದು ಯಾರನ್ನು ಕರೆಯುತ್ತಾರೆ?
31. ಮೊದಲ ಜಾಗತಿಕ ಟಾಕಿ ಸಿನಿಮಾ ಯಾವುದು?
32. 'ಮುನಿತಾಯಿ' ಕಥೆಯನ್ನು ಬರೆದವರು ಯಾರು?

(2021 Batch Onwards)

G 108 OE1.2

Reg. No.:

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.A. Semester II – Degree Examination**

May - 2024

**English Major (Open Elective)**

**A BRIEF INTRODUCTION OF WESTERN THOUGHT**

Time: 2½ hrs.

Max Marks: 60

**UNIT I**

**I. Answer the following in a word/ phrase/sentence each. (10X1=10)**

- 'I only know that I know nothing" who said this?  
a) Plato    b) Socrates    c) Aristotle
- "Tabula rasa" is the term coined by.....
- ..... said that Earth was cylindrical.
- Who is known as the "weeping philosopher"?
- The Earth, according to Thales, is a .....  
a) bowl floating on the water                      b) disc floating on the water  
c) plate of any metal
- The first Greek philosopher was .....  
a) Plato    b) Aristotle    b) Anaximander    c) Thale of Miletus
- The famous statement "An unexamined life is not worth living" is attributed to .....  
a) Aristotle    b) Socrates    c) Plato
- The four main divisions of philosophy are metaphysics, epistemology, axiology, and .....
- According to ....., "Experience is the only source of knowledge"  
a) rationalism    b) empiricism    c) idealism
- The two branches of Metaphysics are ..... and .....

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**UNIT II**

**II. A. Answer any THREE of the following in about 100-150 words each. (3x5=15)**

- Briefly explain the six parts that define a tragedy in the text *Poetics* by Aristotle.
- Briefly explain the main branches of philosophy.
- Discuss Aristotle's political philosophy, focusing on his vision of the ideal state as presented his works such as *Politics* and *Nicomachean Ethics*.
- Analyze the similarities and differences between Plato's *Republic* and Aristotle's *Politics* in terms of their views on governance, justice and citizenship.

Contd...2

**B. Answer any THREE of the following in about 100-150 words each. (3x5=15)**

- 1. Discuss the major socio-political reforms advocated by French Enlightenment philosophers.
- 2. Discuss Rousseau's main argument in *The Social Contract* regarding the legitimacy of political authority.
- 3. Discuss Voltaire's main contributions to literature, philosophy, and society during the Enlightenment period.
- 4. Discuss Montesquieu's political philosophy as outlined in *The Spirit of the Law*.

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**UNIT III**

**III. Answer any ONE of the following in about 300 words (1x20=20)**

- 1. How does absurdist philosophy approach the idea of suicide as a response to the absurdity of life?
- 2. Examine the philosophical ideas put forth by Absurdist theorists, providing a critical analysis of their perspectives on the absurdity of human existence.
- 3. Discuss how existentialist thinkers such as Jean-Paul Sartre, Martin Heidegger, and Friedrich Nietzsche approach the question of meaning and purpose in life.

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7504-11 10/11/2018-04-11  
 10/11/2018

(2021 batch onwards)

G 109 OE1.2

Reg. No.:

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**St Aloysius College (Autonomous)  
Mangaluru**

B.A. Semester II – Degree Examination  
May - 2024

**Communicative English (Open Elective)**

Basics of English Grammar and Vocabulary

Max Marks: 60

Time: 2½ hrs.

**I. Choose the most appropriate synonyms for the underlined words.**

**5X1=5**

- The salesman used his guile to take advantage of the gullible customer.  
a) cleverness      b) dislike      c) forgive      d) respect
- The retired clerk lived in a modest apartment.  
a) small      b) dirty      c) luxurious      d) moderate
- The adorned christmas tree was the centre of attraction in the church.  
a) spectacular      b) bare      c) white      d) decorated
- His greatest weakness is idleness.  
a) extravagance      b) ignorance      c) laziness      d) poverty
- He walked nonchalantly to his seat.  
a) silently      b) noisily      c) quickly      d) casually

**II. Choose the most appropriate antonym for the underlined word:**

**5X1=5**

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MANGALURU - 575 003

- I cannot tell you the chagrin I felt.  
a) mortification      b) pride      c) embarrassment      d) shame
- The situation remained volatile, with tensions rising unpredictably.  
a) stable      b) explosive      c) unstable      d) dynamic
- She lived a frugal lifestyle.  
a) charitable      b) extravagant      c) generous      d) gaudy
- Harold was reluctant to go to the party.  
a) loath      b) unwilling      c) eager      d) hesitant
- These people can least afford the exorbitant costs.  
a) excessive      b) reasonable      c) unreasonable      d) extravagant

**III. Give one – word substitutes for the following.**

**5X1=5**

- An upper room or storey immediately under the roof  
a) garret      b) cache      c) barracks      d) depot
- One who treats diseases by rubbing the muscles  
a) masseur      b) chiropodist      c) optician      d) oculist
- A collection of wild animals  
a) brood      b) cast      c) skien      d) menagerie
- One under the protection of another  
a) ward      b) host      c) coxswain      d) emissary
- Payment of money allowed to a wife on legal separation from her husband  
a) dowry      b) alimony      c) celibate      d) banns

Contd...2

**IV. Choose the appropriate substitute for the underlined Idiom and Phrase.**

5x1=5

1. I don't think Nigel meant what he said. His remark was rather tongue in cheek.
  - a) Being literal and serious
  - b) Joking or insincere
  - c) Being straightforward and honest
  - d) Making a sarcastic remark
2. When he heard that he had once again not been selected he lost heart.
  - a) became desperate
  - b) felt sad
  - c) became angry
  - d) became discouraged
3. I went over and struck up a conversation, and we got on like a house on fire.
  - a) they barely tolerated each other
  - b) they instantly connected
  - c) they argued incessantly
  - d) they awkwardly avoided conversation
4. I am sure the girls will fight tooth and nail for their rights.
  - a) without any weapon
  - b) in a cowardly manner
  - c) with all their rights
  - d) with all their might
5. I kept telling them that we could go on weekend, but they dug their heels in and demanded we go today.
  - a) A way of asking what someone is thinking.
  - b) Resist stubbornly refuse to give in
  - c) An idea is less worth a penny unless it is executed successfully.
  - d) Willing to share a secret only at a price.

**V. Identify the errors in the following sentences and correct them.**

If no errors then mark as no error. **ST ALOYSIUS COLLEGE LIBRARY** 10x1=10

MANGALURU - 576 003

1. Mr Bert had been teaching for five years.
2. Neither alternative hypothesis were accepted.
3. Many a child dream about becoming famous one day.
4. The jury have awarded custody to the grandmother.
5. How is the relatives taking this bad news.
6. Both does a good deal of work around the office.
7. The sick child have been sleeping for three hours.
8. The politics of the situation are complicated.
9. Some of the beads is missing.
10. Neither of the two traffic lights are working.

**VI. Write an essay on the following topic.**

1x10=10

Write an essay on how technology shapes our future.

Contd... 3



**VII. Read the following passage and write a Precis and Paraphrase the same. 5+5=10**

The greatest fact in the story of man on Earth is not his material achievements, the empires he has built and broken, but the growth of his soul from age to age in its search for truth and goodness. Those who take part in this adventure of the soul, secure an enduring place in the history of human culture. Time has discredited heroes as easily as it has forgotten everyone else; but the saints remain. The greatness of Gandhi is more in his holy living than in his heroic struggles, in his insistence on the creative power of the soul and its life-giving quality at a time, when the destructive forces seem to be in the ascendant. Gandhi is known to the world as the one man more than any other, who is mainly responsible for the mighty upheaval of the Indian nation, which has shaken and loosened its chains. Politicians are not generally reputed to take religion seriously, for the values, to which they are committed, such as the political control of one people by another, the economic exploitation of the poorer and weaker human beings, are so clearly inconsistent with the values of religion that the latter could not be taken too seriously or interpreted too accurately. But for Gandhi, all life is one piece. "To see the universal and all-pervading Spirit of Truth face to face one must be able to love the meanest of creation as oneself. And a man who aspires after that cannot afford to keep out of any field of life." (258 words)

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MANGALURU - 575 003

**VIII. Fill in the blanks with the appropriate word. (5x1=5)**

1. We need to \_\_\_\_\_ (device / devise) new solutions to old problems.
2. The president's personal \_\_\_\_\_ (aid / aide) briefed him on the latest developments before the press conference.
3. How does stress \_\_\_\_\_ (affect / effect) your health?
4. The president decided to \_\_\_\_\_ (accede / exceed) to the demands of the protestors to end the strike.
5. Despite the \_\_\_\_\_ (momentary / momentous) lapse in concentration, she quickly regained focus on her work.

Contd...~~4~~

**IX. Read the comprehension passage and answer the following questions:** (5x1=5)

Passage: Between us there was, as I have already said somewhere, the bond of the sea. Besides holding our hearts together through long periods of separation, it had the effect of making us tolerant of each other's yarns-and even convictions. The Lawyer, the best of old fellows, had, because of his many years and many virtues, the only cushion on deck, and was lying on the only rug. The Accountant had brought out already a box of dominoes, and was toying architecturally with the bones. Marlow sat cross-legged right aft, leaning against the mizzen-mast. He had sunken cheeks, a yellow complexion, a straight back, an ascetic aspect, and, with his arms dropped, the palms of hands outwards, resembled an idol. The Director, satisfied the anchor had good hold, made his way aft and sat down amongst us. We exchanged a few words lazily. Afterwards there was silence on board the yacht. For some reason or other we did not begin that game of dominoes. We felt meditative, and fit for nothing but placid staring. The day was ending in a serenity of still and exquisite brilliance. The water shone pacifically; the sky, without a speck, was a benign immensity of unstained light; the very mist on the Essex marshes was like a gauzy and radiant fabric, hung from the wooded rises inland, and draping the low shores in diaphanous folds. Only the gloom to the west, brooding over the upper reaches, became more sombre every minute, as if angered by the approach of the sun. And at last, in its curved and imperceptible fall, the sun sank low, and from glowing white changed to a dull red without rays and without heat, as if about to go out suddenly, stricken to death by the touch of that gloom brooding over a crowd of men.

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**Questions:**

1. What activity were the characters initially planning to engage in before the mood shifted?
  - a) Sailing
  - b) Fishing
  - c) Sunbathing
  - d) Playing dominoes
2. Which character is described as having "sunken cheeks" and a "yellow complexion"?
  - a) The Lawyer
  - b) The Accountant
  - c) Marlow
  - d) The Director
3. How is the sky described in the passage?
  - a) Cloudy
  - b) Clear and vast
  - c) Hazy
  - d) Dull
4. What is the tone of the passage?
  - a) Joyful
  - b) Sombre
  - c) Excited
  - d) Cheerful
5. What does the change in the sun's color symbolize?
  - a) The arrival of a storm
  - b) A scene from a movie
  - c) The onset of darkness
  - d) The warmth of the evening

(2021 batch onwards)

G 310 OE 1.2

Reg. No.:

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**St Aloysius College (Autonomous)**  
**Mangaluru**  
**B.Com. Semester II- Degree Examination**  
**May - 2024**  
**OPEN ELECTIVE**  
**PUBLIC FINANCE**

Time: 2 ½ Hours

Max Marks: 60

**SECTION - A****Answer any FIVE of the following.****(5x2=10)**

1. What constitutes high powered money?
2. State the quantity theory of money given by Fisher.
3. How Price Control works as a measure of controlling business cycles.
4. State any four types of public debt.
5. Define deficit finance.
6. Distinguish between actual money and near money.
7. Describe the difference between direct and indirect taxes as sources of public revenue.

**ST ALOYSIUS COLLEGE LIBRARY****MANGALURU - 575 003****SECTION - B****Answer any FOUR of the following.****(4x5=20)**

8. Describe the factors that affect supply of money.
9. Write a note on various types of Inflation.
10. Discuss the types of index numbers.
11. What are the primary causes that lead to the emergence of different phases within the business cycle?
12. Write a note on the components of public finance.
13. What are the primary objectives of public budget?

**SECTION - C****Answer any TWO of the following.****(2x15=30)**

14. How do the theories of Hawtrey, Hicks, and Schumpeter differ in their explanations of the business cycle?
15. Define money. Explain the various functions of money.
16. Explain the principle of maximum social advantage.

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**St Aloysius College (Autonomous)**

Mangaluru

Semester II – Degree Examination

May - 2024

**B.Com. (ACCOUNTING AND TAX) – OPEN ELECTIVE  
FINANCIAL ECONOMICS**

Time: 2½ hours

Max Marks: 60

**SECTION – A**Answer any **FIVE** of the following.

(5x2=10)

1. The nominal and real GDP respectively of a country in a particular year are Rs. 3000 Crores and Rs. 4700 Crores respectively. Calculate GDP deflator and comment on the level of prices of the year in comparison with the base year.
2. What is a Budget?
3. State the 4 reasons for Market Failure.
4. State any 4 important theories of International Trade.
5. State the 3 functions in an Economic System.
6. What is an Injection?
7. What is a Natural Monopoly?

**ST ALOYSIUS COLLEGE LIBRARY  
MANGALURU - 575 003****SECTION - B**Answer any **FOUR** of the following.

(4x5=20)

8. Compute M1 and M4 from the following data relating to 31<sup>st</sup> March, 2023:

Particulars	Rs. in crore
Notes in circulation	3,01,78,670
Circulation of Rupee Coins	6,48,902
Demand Deposits with Banks	1,41,31,650
Time Deposits with Banks	31,24,276
Cash in hand with Banks	7,64,130
Other Deposits with RBI	3,98,048
Post Office Savings Deposits	2,02,684
Post Office National Savings Certificates (NCSs)	820

9. (i) Which of the three exporters engage in anticompetitive act in the international market while pricing its export of good X to country D?  
(ii) What would be the effect of such pricing on the domestic producers of good X? Advise remedy available for country D?

Goods X	Country A (in \$)	Country B (in \$)	Country C (in \$)
Average Cost	30.5	29.4	30.9
Price per unit for Domestic Sales	31.2	31.1	30.9
Price charged in Country D	31.9	30.6	30.6

10. State any 5 functions of money.

Contd...2

11. If saving function  $S = -10 + 0.2Y$  and autonomous investment  $I = 50$  Crores. Find out the equilibrium level of income, consumption and if investment increases permanently by Rs. 5 Crores, what will be the new level of income and consumption?
12. Briefly explain Expansionary Fiscal Policy and Contractionary Fiscal Policy.
13. State the 6 key objectives of WTO.

### SECTION – C

Answer any **TWO** of the following.

(2X15=30)

14. (a) Briefly explain the 4 types of FDI. (8 marks)  
 (b) State whether the following are FDI or FPI. (7 marks)
  - (i) Claram Joe, a German investor buys 5000 out of 100000 shares of Ford, a US Automobile company
  - (ii) Annette D, the US Company acquires all the equity shares of Emeline & Co in Alice Land which makes computer components
  - (iii) A Bulgarian investor Boryana Gergiev pays cash and buys 0.2 % of all outstanding equity shares of Mariette company which makes computer peripherals
  - (iv) Maansi Tech solutions purchase 52% stake in a Sarra, a Jamaican technology firm
  - (v) Kora extends a loan to Christa Victorine, a power producing firm in which it holds 60 percent of equity
  - (vi) Augusta Corp lends pounds 10 million to Lee Sud, a Dutch parts-making firm in which it holds 79 percent of equity
  - (vii) Mr. A purchased 11% stake in an American Company
15. (a) Following exchange rate quotations are available for different periods:
  - (1) The spot exchange rate changes from Rs. 65 per \$ to Rs. 68 per \$.
  - (2) The spot exchange rate changes from \$ 0.0125 per rupee to \$ 0.01625 per rupee.

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Answer the following:

- (A) Identify the nature of rate quotations in (1) and (2) above.
- (B) Identify the base currency and counter currency in (1) and (2) above.
- (C) What are possible consequences on exports and imports of (1) and (2) above. (5 marks)
- (b) Two countries G and H are producing Sugar and Steel. The table given below shows the number of labor hours required to produce Sugar and Steel:

(5 marks)

Commodity	Country G	Country H
One Unit of Sugar	6.0	2.0
One Unit of Steel	2.5	5.0

- a. Which country has absolute advantage of production of steel
- b. Which country has absolute advantage of production of sugar

(c) (i) What do you think the implications on trade will be if India pays an export subsidy of Rs. 400 on every pair of cotton trousers exported by it to Germany

(ii) Suppose Germany charged an equivalent countervailing duty on every pair of cotton trousers imported from India. Do you think world welfare will be affected? (5 marks)

16. (a) In Gladys land

$$r = 10\% = 0.10$$

Currency = 400 billion

Deposits = 800 billion

Excess Reserves = 0.8 billion

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Compute the value of Money Multiplier.

What would be your answer if the reserve ratio increases to 15%? (8 marks)

(b) Compute M3 from the following data: (7 marks)

Component	Rs. in Crores
Currency with the Public	225432.6
Demand Deposits with Banks	340242.4
Time Deposits with Banks	280736.8
Post Office Savings Deposits (Excluding National Saving Certificate)	446.7
Other Deposits with RBI (Including Government Deposits)	392.7
Post Office National Savings Certificates	83.7
Government Deposits with RBI	102.5

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(2021 Batch onwards)

G 401 OE1.2

Reg. No.

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**St Aloysius College (Autonomous)  
Mangaluru**

**Semester II – Degree Examination**

**May - 2024**

**B.B.A - OPEN ELECTIVE  
MANAGERIAL ECONOMICS**

Time: 2½ Hours

Max Marks: 60

**PART – A**

**Answer any FIVE of the following.**

(5x2=10)

1. Write the formula for AFC.
2. What is managerial economics?
3. Mention any FOUR responsibilities of managerial economists.
4. What is Marginal cost?
5. What is Break-even analysis?
6. What are the two general equilibrium conditions of the firm under perfect competition?
7. What is kinked demand curve model?
8. What do you mean by oligopoly?

**PART - B**

**Answer any FOUR of the following.**

(4x5=20)

9. Briefly explain the concepts of Revenue.
10. Write a short note on TC, AC and MC.
11. What is perfect competition? Briefly explain the relationship between AR and MR under perfect competition.
12. Explain the features of perfect competition.
13. Explain the short-run price-output determination under monopolistic competition.
14. Distinguish between price discounts and price differentials.

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**PART – C**

**Answer any TWO of the following.**

(2x15=30)

15. Explain the Break-even Analysis.
16. Explain the long run price output determination of the firm and industry under perfect competition.
17. What is monopolistic competition? Explain the features of monopolistic competition.
18. Explain the various cost concepts.

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(2021 Batch Onwards)

G 501 OE1.2

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St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester II – Degree Examination

May - 2024

PHYSICS - OPEN ELECTIVE

RENEWABLE ENERGY AND ENERGY HARVESTING

Time: 2½ hrs.

Max Marks: 60

## SECTION –A

Answer any **FOUR** of the following.

(4x2=8)

1. a) Why fossil fuels are considered as non-renewable resources?
- b) Define energy. Give any two forms of energy.
- c) Name two materials commonly used in the manufacturing of photovoltaic cells.
- d) What is wind turbine? Name any two components of a wind turbine.
- e) What is a geothermal well? How geothermal wells leads to noise pollution?
- f) What is a capacitor? Give any one advantage of electrochemical capacitors.

## SECTION – B

Answer any **ONE FULL QUESTION** from each unit.

(4x10=40)

## UNIT-I

- 2.a) Describe the role of solar cookers in reducing the use of traditional fuels for cooking. (6)
- b) What is insolation and how does it impact solar energy production? (4)
- 3.a) Describe the design principles of passive cooling systems in buildings. (6)
- b) Explain how flat-plate collectors are used in passive solar heating systems. (4)

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## UNIT-II

- 4.a) What is tracking in the context of photovoltaic systems, and how does it impact energy production? (6)
- b) Describe the process of landfill gas (LFG) generation and its potential uses. (4)
- 5.a) What are some key challenges associated with the implementation of village power systems? (6)
- b) What is biodiesel, and how is it produced? (4)

## UNIT-III

- 6.a) Write a short note on flywheels. Why flywheels are used in UPS systems? (6)
- b) Write a short note on lithium-ion battery. (4)
- 7.a) Explain the different classifications of hydropower. What are the parameters which decide their classification? (6)
- b) Write a short note on kinetic energy turbines. (4)

Contd...2



**UNIT-IV**

- 8.a) Explain the role of institutions in the development and promotion of renewable energy. (6)
- b) How does transmission differ from distribution in the context of electricity systems? (4)
- 9.a) How do production tax incentives encourage renewable energy production? (6)
- b) What is village power, and why is it important for electrifying rural areas? (4)

**SECTION – C**

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

10. Determine the temperature of a blackbody that emits radiation with a peak wavelength of 10  $\mu\text{m}$ . **ST ALOYSIUS COLLEGE LIBRARY**  
MANGALURU - 575 003
11. The wind speed at a particular location is 6 m/s. If the power curve of a small wind turbine shows a power output of 3 kW at this wind speed, calculate the efficiency of the turbine.
12. Given a geothermal gradient of 25°C per kilometre, calculate the temperature increase at a depth of 3 kilometres below the Earth's surface and the temperature at a depth of 5 kilometres.
13. A solar water heating system in India has an initial cost of ₹100,000 and a salvage value of ₹20,000 after 15 years. If the discount rate is 7%, what is the life-cycle cost?

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(2021 batch onwards)

G 502 OE1.2

Reg. No.:

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St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester II – Degree Examination

May -2024

CHEMISTRY - OPEN ELECTIVE

MOLECULES OF LIFE

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 in 1 to 2 sentences. (8×1=8)

1. a) Define anomers.
- b) What are carbohydrates?
- c) Write the structure of zwitter ion.
- d) Define sphingolipids.
- e) Define coenzymes.
- f) Define drug.
- g) What is fermentation?
- h) What are nucleosides?
- i) Mention any two types of RNA.

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## PART - B

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

2. (i) What is ion exchange chromatography? Mention the mobile and stationary phase used in protein separation.
- (ii) What are non reducing sugars? Give one example.
- (iii) Describe the different types of amino acids based on nature of aminoacids.
- (iv) Give any two factors affecting enzyme action.
- (v) What is the role of substrate concentration in determining the rate of enzyme-catalyzed reactions?
- (vi) Write a note on importance of enzyme inhibitors.
- (vii) What is the significance of the calorific value of food?
- (viii) What is metabolism and mention its types?
- (ix) Write the structure of thymine.

## PART - C

Answer any SEVEN of the following questions. (7×4= 28)

3. Describe primary structure of proteins.
4. Write the general properties of glucose.
5. Explain the terms: epimers and mutarotation.
6. Explain binding roles of -OH and -NH<sub>2</sub> group.
7. Write a note on enzyme specificity. Mention any two types.
8. Explain the structure of DNA(Watson – Crick model).
9. Write a note on catabolism of proteins.
10. Explain replication and transcription.

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(2021 - Batch onwards)

G 503 OE 1.2

Reg No : 

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**St Aloysius College (Autonomous) Mangaluru**  
**B.Sc SEMESTER II - DEGREE EXAMINATION**

**MAY - 2024**

**Mathematics (OPEN ELECTIVE)**

**Mathematics - II**

Time : 2½ Hours

Max. Marks : 60

**PART - A**

Answer any **NINE** of the following . (9×2=18)

1. Given  $H = \{0, 6\}$ ,  $K = \{0, 3, 6, 9\}$  are the subgroups of  $(\mathbb{Z}_{12}, \oplus_{12})$ . Find order of  $HK$ .
2. Find the order of non-zero rational numbers in the infinite multiplication group  $\mathbb{Q} - \{0\}$ .
3. Prove that if  $a$  is a generator of a cyclic group  $G$  then  $a^{-1}$  is also a generator of  $G$ .
4. Define a binary operation  $*$  on the set of non-negative integers by  $m * n = m^2 + n^2$ . Does this set have:
  - i) identity element?
  - ii) inverse for every element?
5. Find  $f_{xy}$  and  $f_{yx}$  for the function  $f(x, y) = 1 + xy^2$ .
6. Find  $\frac{\partial f}{\partial y}$  if  $f(xy) = y \sin xy$ .
7. If  $z = \tan^{-1}(x + y)$ , find the total differential of  $z$ .
8. Find  $f_x$  at the point  $(1, 2)$  if  $f(x, y) = \frac{xy}{x+y}$ .
9. Evaluate:  $\int_1^2 2x^3 dx$ .
10. Evaluate:  $\int_{-1}^2 \int_0^{\frac{\pi}{2}} y \sin x \, dx \, dy$ .
11. If the line  $C$  is parametrised by the equation  $x = 3 - 2t$ ,  $y = 6 - 7t$ ,  $0 \leq t \leq 1$ , find  $\int_C f(x, y) ds$  where  $f(x, y) = x + y$ .
12. Using Leibniz's rule, find the derivative of the function  $f(x) = \int_{\frac{1}{x}}^x \frac{1}{t} dt$ .

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**PART - B**

**UNIT - I**

Answer any **TWO** of the following . (2×7=14)

1. Prove that the set  $G = \{1, 2, 3, 4, 5, 6\}$  under multiplication modulo 7 is an abelian group of order 6.
2. i) Find the order of each element in the multiplicative group  $G = \{1, -1, i, -i\}$ . (4)  
 ii) Find the number of generators in a cyclic group of order 12. (3)
3. Define a subgroup. Find all the subgroups of  $\mathbb{Z}_{20}$ .

**UNIT - II**

Answer any **TWO** of the following . (2×7=14)

1. i) Using definition of partial derivatives, obtain  $\frac{\partial f}{\partial x}$  and  $\frac{\partial f}{\partial y}$  for  $f(x, y) = -9x - 5y + 3$ . (4)  
 ii) Verify that  $w_{xy} = w_{yx}$  for the function  $w(x, y) = \ln(2x + 3y)$ . (3)

Contd....2

- 2. i) Check if  $f(x, y) = x^3 + x^2y - xy^2 + y^3$  is a homogenous function. If yes, what is its degree? (2)
- ii) State and prove Euler's theorem on homogenous functions. (5)
- 3. Expand the function  $f(x, y) = x^2 + xy - y^2$  by Taylor's formula in powers of  $(x - 2)$  and  $(y - 3)$ .

**UNIT - III**

Answer any **TWO** of the following .

(2x7=14)

- 1. Evaluate:  $\int_0^1 \int_0^1 \int_0^1 (x^2 + y^2 + z^2) dz dy dx$ . **ST ALOYSIUS COLLEGE LIBRARY**  
MANGALURU - 575 007
- 2. Evaluate :  $\lim_{n \rightarrow \infty} \frac{1}{n^4} (1^3 + 2^3 + 3^3 + \dots + n^3)$  by showing that the limit is  $\int_0^1 x^3 dx$  and evaluating the integral.
- 3. Find the volume of the solid whose base is the region in the  $XY$  plane bounded by the parabola  $y = x^2$  and the line  $y = 2x$ , while the top of the solid is bounded by the plane  $z = 4x + 2$ .

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(2023 batch onwards)

G 504 OE1.2

Reg. No.

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.Sc. Semester II – Degree Examination**

**May -2024**

**ELECTRONICS (OPEN ELECTIVE )  
Fundamentals of Digital Electronics**

Time: 2½ hrs.

Max Marks: 60

**SECTION – A**

1. Answer any FIVE questions (2x5=10)
- i) Write the rules of binary addition.
  - ii) State duality principle in Boolean algebra.
  - iii) Show that  $a+1=1$  using the postulates of Boolean algebra.
  - iv) Convert the decimal number 57 into binary number.
  - v) Draw the truth table of a Half subtractor.
  - vi) Draw the block diagram of a 4-bit parallel binary adder circuit.
  - vii) What is meant by a Quad in K-map? Explain with an example.

**SECTION – B**

- 2 Answer any FIVE questions (4x5=20)
- i) Explain the subtraction of two binary numbers using two's complement method.
  - ii) Prove (i)  $a + ab = a$  and (ii)  $a + \bar{a}b = a + b$  using the postulates of Boolean algebra.
  - iii) What are self complementing codes? Explain with an example.
  - iv) Design a 3 bit even parity bit generator using combinational circuit design procedure.
  - v) Realize the following Boolean expression using 4x1 MUX.  
 $F(A, B, C) = \sum (0,2,3,4,6)$
  - vi) Define an Octet in K-map and show that appearance of an octet drops three variables in the simplification process.
  - vii) Simplify the following Boolean function using K-map and draw the logic circuit for the simplified equation using basic logic gates.  
 $F(A, B, C, D) = \sum m(0, 1, 2, 3, 5, 7, 9, 13, 14, 15)$

**SECTION – C**

- Answer any THREE Full questions. (10x3=30)
3. a) Simplify the Boolean function (5)  
 $F(A, B, C, D) = \sum m(0,1,2,3, 8,9,10,11)$  using the postulates of Boolean algebra and verify the result using K-map.

Contd...2

- b) Perform the following number conversions (5)
- (i)  $(456)_{16} = (?)_8$
- (ii)  $(110111)_2 = (?)_8$
- (iii)  $(101011.11101)_2 = (?)_{16}$
- (iv)  $(10101000.110)_2 = (?)_{10}$
4. a) State the postulates of Boolean Algebra. (5)
- b) Show that the set  $K = \{0,1\}$  is a Boolean set (5)
5. a) Using combinational circuit design procedure, design a Full adder and hence draw the circuit diagram. (5)
- b) Using combinational circuit design procedure, design a 2-bit Magnitude comparator. (5)
6. a) Simplify the Boolean function  $F(A, B, C, D) = \sum m(1, 3, 4, 6, 8, 9, 11, 13, 15) + \sum d(0, 2, 14)$  and hence draw the logic circuit diagram for the simplified equation. (5)
- ST ALOYSIUS COLLEGE LIBRARY**  
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- B) Using combinational circuit design procedure, design a BCD to Decimal decoder. (5)

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(2021 Batch Onwards)

G 505 OE1.2

Reg. No.:

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**St Aloysius College (Autonomous)****Mangaluru****B.Sc Semester II – Degree Examination****May -2024****COMPUTER SCIENCE (OPEN ELECTIVE)****WEB DESIGNING**

Time: 2 ½ Hours.

Max Marks: 60

**PART –A**

1. Answer any **SIX** of the following. (6X2=12)
- How does the Internet work?
  - What is Browser?
  - How to define a paragraph in HTML .Give one example
  - Write the difference between STRONG element and MARK element.
  - Write any two attributes of table tag.
  - Write the structure of URL. Give one example.
  - List the different types of style sheets.
  - Expand XML and HTML

**PART –B**Answer any **ONE FULL** question from each unit 12 marks each(4x12=48)**STALOYSIUS COLLEGE LIBRARY**

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**UNIT – I**

- What is Email? How, email works? Explain (4)
  - Explain the basic internet terms. (4)
  - What is a Browser? How does Browser works? (4)
- Explain the features of messengers. (4)
  - Write the applications of internet. (4)
  - Explain the internet explore environment. (4)

**UNIT – II**

- Write the structure of HTML document with an example. (4)
  - Explain ordered list tags and unordered list tags with example to each. (4)
  - Write a note on arranging text in HTML. (4)
- Write a note on HTML section elements. (4)
  - Explain the basic HTML data types. (4)
  - List and explain any four text formatting tags. (4)

**Contd..2**

## UNIT - III

6. a) How to insert images in a web page? Explain (4)  
 b) Explain and table with a suitable example. (5)  
 c) Explain any three form controls. (3)
7. a) Explain the multiple choice elements SELECT ,OPTION with an example. (5)  
 b) Design a form for user login. (4)  
 c) Explain any three types of INPUT element with an example to each. (3)

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## UNIT - IV

8. a) What is a style sheet? How to create style sheets? Explain with suitable example. (5)  
 b) Explain the external and inline types of CSS. (4)  
 c) Write a note on color property used in CSS. (3)
9. a) Compare XML with HTML. (5)  
 b) Explain Cascading style sheets. (4)  
 c) Write a note on linear gradient property used along with CSS. (3)

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(2021 batch onwards)

G 507 OE1.2

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.Sc. Semester II – Degree Examination  
May - 2024**

**BOTANY – OPEN ELECTIVE**

**PLANT PROPAGATION, NURSERY MANAGEMENT AND GARDENING**

Time: 2½ hrs.

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. Define the term propagule? Give an example.
2. What is an aromatic nursery? Give example.
3. What are off types?
4. What is pollen bank?
5. Define garden. Give any one important objective of gardening.
6. Write any two components of park.
7. What is Bonsai?
8. Mention any four promotional activities involved in seed marketing.

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**SECTION – B**

**II. Answer any SIX of the following.****(6x5=30)**

1. Write a note on direct seeding.
2. Give an account on procedure involved in hardening of plants.
3. What is Cutting? Add a brief note on stem-tip cutting.
4. Mention the salient features of seed health testing
5. What is gardening operations? Explain soil layering and manuring.
6. Give a brief account on Computer Aided Designing in landscape gardening.
7. Explain the soil and climatic condition necessary for cabbage cultivation.
8. What are the prerequisites for transplanting?

**SECTION – C**

**III. Answer any TWO of the following.****(2x10=20)**

1. What are the general steps involved in cultivation of tomato?
2. Write a brief account on
  - (i) green house
  - (ii) shade house
  - (iii) mist chamber
  - (iv) glass house
  - (v) Shed roof
3. Explain the structure of monocot and dicot seed.
4. Explain formal and informal gardening types in brief.

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(2021 Batch onwards)

G 508 OE 1.2E

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St Aloysius College (Autonomous) , Mangaluru

B.Sc. Semester II – Degree Examination

May -2024

ZOOLOGY (OPEN ELECTIVE)

PARASITOLOGY

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)**

- a) What is the causative agent of African sleeping sickness?
- b) List the symptoms a person might experience with a *Hymenolepis nana* infection.
- c) What is the common name for *Fasciolopsis buski*?
- d) Give two examples of endoparasites.
- e) Write down the characteristic features of *Ascaris lumbricoides*.
- f) Define parasitism. Mention different kinds of parasitism.
- g) Write the scientific name of Mocking bird and write its notable feature?
- h) Write a note on the characteristic features of Ticks.
- i) What is PCR? Give one application.
- j) How are DNA probes utilized to detect specific genes or sequences in samples?
- k) Expand CCI and CFT.
- l) Explain the role of an electric field in CIE.

**ST ALOYSIUS COLLEGE LIBRARY****MANGALURU - 575 003****PART – B****II. Answer any FOUR of the following. (4X5=20)**

- a) Explain how *Schistosoma haematobium* infection can lead to complications in the urinary system
- b) Explain the concept of intermediate hosts and definitive hosts. Give examples.
- c) Describe the morphology of *Wuchereria bancrofti* and its significance in its identification.
- d) Compare and contrast the formation of galls induced by sedentary endoparasitic nematodes with those induced by migratory ectoparasitic nematodes.
- e) Discuss the challenges associated with using molecular techniques for the detection of endoparasites in clinical and environmental samples. How can these challenges be addressed to improve the reliability and accuracy of molecular diagnosis?
- f) Discuss the potential for molecular diagnosis to provide rapid results and its implications for timely treatment decisions.

**Contd...2**

## PART – C

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

- a) Describe the complete life cycle of *Entamoeba histolytica*, including the infective stage for humans.
- b) Describe the feeding habits of vampire bats.
- c) Explain the principle behind Enzyme-Linked Immunosorbent Assay (ELISA) and Radioimmunoassay (RIA). How do these techniques differ in terms of detection and measurement of analytes?
- d) Describe the basic principles underlying molecular diagnostic techniques used for detecting parasitic infections.

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## St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester II – Degree Examination

May/June - 2024

**BIOCHEMISTRY (OPEN ELECTIVE)**

**PROTEINS AND ENZYMES**

Time: 2½ Hours

Max. Marks: 60

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

### PART – A

(10×2=20)

1. Answer any TEN of the following.
  - a) Name any two aromatic amino acids.
  - b) Enlist the properties of peptide bond.
  - c) What is Sanger's reagent? Give its significance.
  - d) Write the zwitter ionic structures of Alanine and Leucine.
  - e) List out the applications of enzymes.
  - f) Define  $K_m$  and  $V_{max}$ .
  - g) Michaelis-Menten equation is a rectangular hyperbola. Why?
  - h) What is Co-operativity?
  - i) Write the principle of affinity chromatography.
  - j) What is SDS? Give its role.
  - k) Mention the significance of ammonium sulphate fractionation method.
  - l) Give the principle behind molecular sieve chromatography.

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### PART – B

(8×5=40)

Answer any EIGHT of the following.

2. Classify proteins based on its structure
3. Write short note on Ramachandran Plot.
4. How do you determine the C-Terminal end of an amino acid? Explain.
5. What are oxidoreductases and ligases? Explain in detail.
6. Comment on reversible enzyme inhibition with an example.
7. Explain the mechanism of action of chymotrypsin.
8. Write short note on Dialysis.
9. Give an account on Native PAGE.
10. Explain how chromatography can be used to purify a specific protein based on ionic interactions?

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(2021 batch onwards)

G 601 OE 1.2

Reg. No.

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**St Aloysius College (Autonomous)****Mangaluru****B.C.A. Semester II – Degree Examination****May - 2024****APPLIED STATISTICS (OPEN ELECTIVE )**

Time: 2½ hrs.

Max Marks: 60

**PART – A**Answer any **SIX** of the following.

(6x2=12)

1. a) What are the applications of control chart?
- b) What is primary data? Mention a method of collecting the same.
- c) Mention the different techniques for measuring correlation.
- d) Distinguish between sample survey and census survey.
- e) What are Infant Mortality Rate and Maternal Mortality Rate?
- f) Mention any two uses of vital statistics.
- g) What is correlation?
- h) Why do we need a OC curve in a sampling plan?

**PART – B**Answer any **ONE FULL** question from each unit.

(12x4=48)

**ST ALOYSIUS COLLEGE LIBRARY****UNIT – I****MANGALURU - 575 063**

2. a) Compute Crude and Standardized Death Rates for the local population from (6) the following Data (Consider A as Standard Population)

Age (Years)	A		B	
	Population	Deaths	Population	Deaths
Under 10	20000	600	12000	375
10-20	12000	240	30000	650
20-40	50000	1250	62000	1600
40-60	30000	1050	15000	325
Above 60	10000	500	3000	180

- b) (i) In a locality 3,000 live births occurred. The number of infant deaths was 138, the number of neo-natal deaths was 84 and 24 mothers died due to child birth complications. Find IMR, NMR and MMR. (6)

(ii) On the basis of data given below obtain ASDR and CDR

Age group (years)	Under 9	9-20	20-30	30-40	40-50	50 and above
Population ('000)	18	12	50	26	32	10
Total deaths	208	1950	1400	2020	900	680

Contd..2

3. a) For the following data, compute CBR, GFR and TFR.

Age [in years]	Male Population	Female Population	Number of live births
0 - 14	11,000	10,000	-
15 - 19	9,000	8,000	320
20 - 24	12,000	11,000	660
25 - 29	16,000	15,000	1,350
30 - 34	21,000	20,000	2,000
35 - 39	15,000	15,000	1,035
40 - 44	7,000	6,000	180
45 - 49	4,000	5,000	55
50 & above	6,000	9,000	-

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- b) For the following data, compute the GRR and NRR. Is population increasing? Why?

Age [in years]	Female Population	Female births	Survival rate
15 - 19	16,000	480	0.91
20 - 24	14,500	812	0.90
25 - 29	13,000	650	0.89
30 - 34	11,500	460	0.88
35 - 39	10,000	300	0.87
40 - 44	8,700	87	0.86
45 - 49	7,500	30	0.85

**UNIT - II**

- 4 a) Briefly explain any two of the non-probability sampling techniques with an example. (4)
- b) Define Pilot Survey. Explain the significance of pilot survey in sampling techniques. (4)
- c) Write a note on Non-Probability and Probability Sampling (4)
- 5.a) Explain important features of Systematic Sampling. (4)
- b) Explain Simple Random Sampling method. (4)
- c) What are Sampling Errors? Explain the sources of Sampling Errors. (4)

**UNIT - III**

6. a) For a bivariate data mean value of X is 20, mean value of Y is 45. The regression coefficient of Y on X is 4 and that of X on Y is 1/9. (6)  
Find Coefficient of correlation and write down the equations of Regression lines.
- b) The following are the marks of 8 students in Physics and Chemistry. Find the coefficient of rank correlation. (6)

The following are the marks of 8 students in Physics and Chemistry. Find the coefficient of rank correlation.

Marks in Physics	25	43	27	35	54	61	37	45
Marks in Chemistry	35	47	20	37	63	54	28	40

## G 601 OE 1.2

- 7.a) From following information find the correlation coefficient between advertisement expenses and sales volume using Karl Pearson's coefficient of correlation method. (6)

Firm	1	2	3	4	5	6	7	8	9	10
Advertisement Exp. (Rs. in Lakhs)	11	13	14	16	16	15	15	14	13	13
Sales Volume (Rs. in Lakhs)	50	50	55	60	65	65	65	60	60	50

- b) From the following data obtain the two regression lines, Find the correlation coefficient ( $r$ ) using the regression coefficients and estimate the sales volume of 12 lakhs capital investment: (6)

Capital investment (₹ in lakh):	7	8	5	9	12	9	10	15
Sales Volume (₹ in lakh):	4	5	2	6	9	5	7	12

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**UNIT - IV**

8. a) For a sampling plan fraction defective average;  $\bar{P} = 0.6$  and  $n=100$ . Find the control limits for the chart for fraction defectives. (4)
- b) When do we say that the process is under Statistical Quality Control? Explain the causes of variation in any process. (4)
- c) Write a short note on Producers risk and Consumers risk in sampling inspection plan. (4)
9. a) Describe the principle of double sampling plan with an example. (4)
- b) Briefly explain the construction of R Chart. (4)
- c) Briefly explain the method of obtaining C chart (4)

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