(2019 Batch onwards)

G 101.1E

Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A. Semester I – Degree Examination
February 2021
Open Elective (Under CBCS)
CONTEMPORARY INDIA

Time: 2 Hours **Max. Marks: 50**

I Answer any ONE of the following question in 3 pages each. (20x1=20)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ 3 ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

1. Describe the dominant party system in Indian politics between 1952 and 1967.
   ಭಾರತದ ರಾಜಕೀಯದಲ್ಲಿ 1952ರಿಂದ 1967ರ ವರೆಗಿನ 'ಪ್ರಭಲ ರಾಜಕೀಯ ಪಕ್ಷ' ವ್ಯವಸ್ಥೆಯನ್ನು ವಿವರಿಸಿ.
2. What were the features of the 'Mixed Economy' concept formulated by Pandith Jawaharlal Nehru?
   ಪಂಡಿತ್ ಜವಹಾರ್‌ಲಾಲ್ ನೆಹರೂರವರು ರೂಪಿತ 'ಸಮ್ಮಿಶ್ರ ಅರ್ಥ ವ್ಯವಸ್ಥೆ' ಪರಿಕಲ್ಪನೆಯ ಮುಖ್ಯ ಲಕ್ಷಣಗಳಾವುವು?
3. Trace the origin and development of communal politics in India.
   ಭಾರತದಲ್ಲಿ ಕೋಮು ರಾಜಕೀಯದ ಮೂಲ ಹಾಗೂ ಬೆಳವಣಿಗಳನ್ನು ಗುರುತಿಸಿ.

II Answer any THREE questions in 15-20 lines each. (6x3=18)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳನ್ನು 15–20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. Write a note on 'Green Revolution'.
   'ಹಸಿರು ಕ್ರಾಂತಿ' ಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
2. Elaborate liberalisation, privatization and globalization.
   ಉದಾರೀಕರಣ, ಖಾಸಗೀಕರಣ ಹಾಗೂ ಜಾಗತೀಕರಣವನ್ನು ಸೂಕ್ತ ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ವಿಸ್ತರಿಸಿ.
3. Write a note on Mandal Commission report.
   ಮಂಡಲ್ ಕಮಿಷನ್‌ನ ವರದಿಯ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
4. What are the main issues involved in the feminist movement in India.
   ಭಾರತದಲ್ಲಿ ಸ್ತ್ರೀ ವಾದಿ ಚಳವಳಿಯಲ್ಲಿ ಒಳಗೊಂಡಿರುವ ಪ್ರಮುಖ ವಿಷಯಗಳಾವುವು?
5. Write a note on 'total revolution' initiated by Jayaprakash Narayan and its impact.
   ಜಯಪ್ರಕಾಶ ನಾರಾಯಣರ 'ಸಂಪೂರ್ಣ ಕ್ರಾಂತಿ' ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

III Answer the following questions in 5 sentences each. (3x4=12)
ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳನ್ನು 5 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. Write the specific goals of the technology missions initiated by Rajiv Gandhi in India.
   ಭಾರತದಲ್ಲಿ ರಾಜೀವ್‌ಗಾಂಧಿಯವರು ಆರಂಭಿಸಿದ ತಂತ್ರಜ್ಞಾನ ಮಿಷನ್ ನ ನಿರ್ದಿಷ್ಟ ಗುರಿಗಳನ್ನು ತಿಳಿಸಿ.
2. Who led Dravidian Movement in Tamilnadu? What were their agenda?
   ತಮಿಳ್ನಾಡಿನಲ್ಲಿ ಡ್ರಾವಿಡ ಚಳುವಳಿಯ ನೇತೃತ್ವ ವಹಿಸಿದವರಾರು? ಅವರ ಕಾರ್ಯಸೂಚಿ ಏನು?
3. Name any three English writers of Indian origin and their famous works.
   ಭಾರತೀಯ ಮೂಲದ ಮೂರು ಇಂಗ್ಲೀಷ್ ಸಾಹಿತಿಗಳನ್ನು ಹೆಸರಿಸಿ. ಅವರ ಜನಪ್ರಿಯ ಕೃತಿಗಳನ್ನು ಹೆಸರಿಸಿ.
4. State any 5 distinct features of Indian movies.
   ಭಾರತೀಯ ಚಲನಚಿತ್ರಗಳ 5 ಅತ್ಯಂತ ವಿಶಿಷ್ಟ ಲಕ್ಷಣಗಳು ತಿಳಿಸಿ.

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(2019 Batch Onwards)

G 102.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru

B.A. - Semester I– Degree Examination

January/February 2021

Open Elective (Under CBCS)

HUMAN RESOURCE ECONOMICS

Time: 2 hrs. **Max Marks: 50**

SECTION – A

Answer any SEVEN questions. **(7x2=14)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ **ಏಳು** ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ

1. Define Human Resource Management.

   ಮಾನವ ಸಂಪನ್ಮೂಲ ನಿರ್ವಹಣೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

2. State any two policies of HRD.

   ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ಎರಡು ನೀತಿಗಳನ್ನು ತಿಳಿಸಿ.

3. List out any four importances of Human Resource Development.

   ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ನಾಲ್ಕು ಪ್ರಾಮುಖ್ಯತೆಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡಿ.

4. What is Organisational effectiveness?

   ಸಾಂಸ್ಥಿಕ ಪರಿಣಾಮ ಕಾರಿತ್ವ ಎಂದರೇನು?

5. What is the purpose of HRD system?

   ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ವ್ಯವಸ್ಥೆಯ ಉದ್ದೇಶಗಳೇನು?

6. List out any four outcomes of HRD.

   ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಫಲಿತಾಂಶಗಳನ್ನು ವಿವರಿಸಿ.

7. What is Team Building?

   ತಂಡ ರಚನೆ ಎಂದರೇನು?

8. What is Organisational Change?

   ಸಾಂಸ್ಥಿಕ ಬದಲಾವಣೆ ಎಂದರೇನು?

9. Give the meaning of Talent Management.

   ಪ್ರತಿಭೆ ನಿರ್ವಣೆಯ ಅರ್ಥವನ್ನು ತಿಳಿಸಿ.

SECTION - B

Answer any FOUR questions. **(4x4=16)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ **ನಾಲ್ಕು** ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

10. Briefly explain the functions of Human Resource Development.

    ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ಕಾರ್ಯಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

11. Briefly explain the need and scope of Human Resource Development.

    ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ಅವಶ್ಯಕತೆ ಮತ್ತು ವ್ಯಾಪ್ತಿಯನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

Contd...2

12. Explain the HRD process.

ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ಪ್ರಕ್ರಿಯೆಯನ್ನು ವಿವರಿಸಿ.

13. What are the process of designing HRD system?

ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ವ್ಯವಸ್ಥೆಯನ್ನು ವಿನ್ಯಾಸಗೊಳಿಸುವ ಪ್ರಕ್ರಿಯೆಗಳಾವುವು?

14. Explain briefly the Learning Process.

ಕಲಿಕೆಯ ಪ್ರಕ್ರಿಯೆಯನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

15. Explain different types of change.

ವಿವಿಧ ರೀತಿಯ ಬದಲಾವಣೆಗಳನ್ನು ವಿವರಿಸಿ.

SECTION – C

Answer any <u>TWO</u> questions. **(2x10=20)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ **<u>ಎರಡು</u>** ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

16. Explain the characteristics of Human Resource Development.

ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ಗುಣ-ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

17. Explain the factors affecting HRD climate.

ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿಯ ವಾತಾವರಣದ ಮೇಲೆ ಪ್ರಭಾವ ಬೀರುವ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.

18. Explain the need for Training.

ತರಬೇತಿಯ ಅವಶ್ಯಕತೆಗಳನ್ನು ವಿವರಿಸಿ.

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(2019 Batch Onwards)

G 103.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A. - Semester I– Degree Examination
February 2021
Open Elective (Under CBCS)
LEGAL LITERACY IN INDIA

Time: 2 hrs. Max Marks: 50

SECTION – A

Answer any FIVE from the following. (5x2=10)

1. What is Law? State its relevance today.
   ಕಾನೂನು ಎಂದರೇನು? ಅದರ ಪ್ರಸ್ತುತತೆಯನ್ನು ತಿಳಿಸಿರಿ.
2. What do you mean by free legal aid?
   ಉಚಿತ ಕಾನೂನು ನೆರವು ಎಂದರೇನು?
3. What is PIL?
   ಪಿ ಐ ಎಲ್ ಎಂದರೇನು?
4. What do mean by Zero FIR?
   ಶೂನ್ಯ ಎಫ್.ಐ.ಆರ್ ಎಂದರೇನು?
5. What do you mean by injunction?
   ತಡೆಯಾಜ್ಞೆ ಎಂದರೇನು?
6. Is legal aid necessary for juveniles? Why?
   ಬಾಲಾಪರಾದಿಗಳಿಗೆ ಕಾನೂನು ನೆರವು ಅಗತ್ಯವೇ? ಯಾಕೆ?
7. What is "Hizanat" in Muslim law?
   ಮುಸ್ಲಿಂ ಕಾನೂನಿನಲ್ಲಿ 'ಹಿಝಾನತ್' ಎಂದರೇನು?

SECTION - B

Answer any FOUR from the following. (4x5=20)

8. What do you mean by crime? Point out four elements of a crime.
   ಅಪರಾಧ ಎಂದರೇನು? ಅಪರಾಧದ ನಾಲ್ಕು ಅಂಶಗಳನ್ನು ಗುರುತಿಸಿ ಬರೆಯಿರಿ.
9. Explain the salient features of Adoption Law in Juvenile Justice Act.
   ಬಾಲಾಪರಾಧ ಕಾಯ್ದೆಯಲ್ಲಿರುವ ದತ್ತು ಸ್ವೀಕಾರ ವಿಧಾನದ ಲಕ್ಷಣಗಳನ್ನು ತಿಳಿಸಿರಿ.
10. What is a will and point out two types of wills.
    ಉಯಿಲು ಎಂದರೇನು? ಅದರ ಎರಡು ಪ್ರಕಾರದ ಉಯಿಲುಗಳನ್ನು ಬರೆಯಿರಿ.
11. What do you mean by alimony? How it is different from maintenance.
    ಜೀವನಾಂಶ ಎಂದರೇನು? ಇದು ನಿರ್ವಹಣಾಂಶದಿಂದ ಹೇಗೆ ಭಿನ್ನವಾಗಿದೆ?
12. "Mediation is an effective method in settlement of legal dispute". Explain.
    "ಮಧ್ಯಸ್ಥಿಕೆಯು ಕಾನೂನು ವಿವಾದ ಇತ್ಯರ್ಥದಲ್ಲಿ ಪರಿಣಾಮಕಾರಿ ವಿಧಾನ" ವಿವರಿಸಿರಿ.
13. Write your comments on Supreme Court judgment on lifting ban on entry of women inside Sabarimala temple.
    ಶಬರಿಮಲೆ ದೇವಸ್ಥಾನದ ಒಳಗೆ ಮಹಿಳೆಯರ ಪ್ರವೇಶ ನಿಷೇಧವನ್ನು ತೆಗೆದು ಹಾಕುವ ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಾಲಯದ ತೀರ್ಪಿನ ಬಗ್ಗೆ ನಿಮ್ಮ ಅಭಿಪ್ರಾಯವನ್ನು ಬರೆಯಿರಿ.

Contd...2

SECTION – C

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

14. Explain the salient features of the Indian Succession Act.
ಭಾರತೀಯ ಉತ್ತರಾಧಿಕಾರ ಕಾಯ್ದೆಯ ಗುಣ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿರಿ.

15. Explain the stages involved in the institution of civil case.
ಸಿವಿಲ್ ಮೊಕದ್ದಮೆಯನ್ನು ಹಾಕಲು ಅನುಸರಿಸುವ ಹಂತಗಳನ್ನು ವಿವರಿಸಿರಿ.

16. Explain the duty of employer to deal with any kind of harassment at workplace.
ಕೆಲಸದ ಸ್ಥಳದಲ್ಲಿ ನಡೆಯುವ ಯಾವುದೇ ರೀತಿಯಾದ ಶೋಷಣೆಯನ್ನು ನಿಗ್ರಹಿಸುವಲ್ಲಿ ಉದ್ಯೋಗದಾತನ ಕರ್ತವ್ಯವನ್ನು ವಿವರಿಸಿರಿ.

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(2019 batch onwards)

G 104.1E Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A. Semester I – Degree Examination
February 2021
Open Elective (Under CBCS)
SOCIOLOGY OF SANITATION

Time: 2 Hours **Max. Marks: 50**

I **Answer any FIVE questions in 2-3 sentences each.** **(2x5=10)**
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ 2 –3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. Mention the social categories which impact health.
ಆರೋಗ್ಯದ ಮೇಲೆ ಪ್ರಭಾವ ಬೀರುವ ಸಾಮಾಜಿಕ ವರ್ಗೀಕರಣಗಳನ್ನು ತಿಳಿಸಿ.

2. What is sanitation according to UNICEF?
ಯುನಿಸೆಫ್‌ನ ಪ್ರಕಾರ ನೈರ್ಮಲ್ಯ ಎಂದರೇನು?

3. What are the two positive reasons rural women give about open defecation?
ಬಯಲು ಶೌಚದ ಬಗ್ಗೆ ಗ್ರಾಮೀಣ ಮಹಿಳೆಯರು ನೀಡುವ ಎರಡು ಸಕಾರಾತ್ಮಕ ಕಾರಣಗಳನ್ನು ತಿಳಿಸಿರಿ.

4. Expand HUPA.
ಎಚ್.ಯು.ಪಿ.ಎ ಅನ್ನು ವಿಸ್ತರಿಸಿ ಬರೆಯಿರಿ.

5. When was the Sulabh International social service organization founded?
ಸುಲಭ್ ಅಂತಾರಾಷ್ಟ್ರೀಯ ಸಾಮಾಜಿಕ ಸೇವಾ ಸಂಘಟನೆಯನ್ನು ಯಾವಾಗ ಸ್ಥಾಪಿಸಲಾಯಿತು?

6. Mention any two benefits of biogas from public toilets.
ಸಾರ್ವಜನಿಕ ಶೌಚಾಲಯಗಳಿಂದ ಪಡೆದ ಜೈವಿಕ ಅನಿಲದ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಯೋಜನಗಳನ್ನು ತಿಳಿಸಿರಿ.

7. What is manual scavenging?
ಮಲ ಹೊರುವ ಪದ್ಧತಿ ಎಂದರೇನು?

8. Mention any two consequences on globalization on health of poor women.
ಬಡ ಮಹಿಳೆಯರ ಆರೋಗ್ಯದ ಮೇಲೆ ಜಾಗತೀಕರಣದ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಭಾವಗಳನ್ನು ತಿಳಿಸಿರಿ.

II **Answer any FOUR questions in 8-10 sentences each.** **(5x4=20)**
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ 8–10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. Explain Health Sociology.
ಆರೋಗ್ಯ ಸಮಾಜಶಾಸ್ತ್ರವನ್ನು ವಿವರಿಸಿರಿ.

2. How can we maintain sanitation in public?
ನಾವು ಸಾರ್ವಜನಿಕವಾಗಿ ನೈರ್ಮಲ್ಯವನ್ನು ಹೇಗೆ ಉಳಿಸಿಕೊಳ್ಳಬಹುದು. ವಿವರಿಸಿರಿ.

3. Explain any five of the key sanitation policy issues.
ನೈರ್ಮಲ್ಯ ನೀತಿಯ ಯಾವುದಾದರೂ ಐದು ಪ್ರಮುಖ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿರಿ.

4. Anayse the Sulabh Public Toilet complexes.
ಸುಲಭ್ ಸಾರ್ವಜನಿಕ ಶೌಚಾಲಯ ಸಂಕೀರ್ಣಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ.

Contd...2

5. Explain the Universal Declaration of Human Rights.
   ಮಾನವ ಹಕ್ಕುಗಳ ಸಾರ್ವತ್ರಿಕ ಘೋಷಣೆಯನ್ನು ವಿವರಿಸಿರಿ.

6. Discuss the effects on the health of manual scavengers.
   ಮಲಹೊರುವವರ ಮೇಲಾಗುವ ಆರೋಗ್ಯದ ಪರಿಣಾಮಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.

III Answer any TWO questions in 15-20 sentences each. **(10x2=20)**
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ 15–20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. Explain the causes of poor sanitation and the diseases caused due to it.
   ಕಳಪೆ ಮಟ್ಟದ ನೈರ್ಮಲ್ಯದ ಕಾರಣಗಳು ಹಾಗೂ ಅದರಿಂದ ಉಂಟಾಗುವ ರೋಗಗಳ ಬಗ್ಗೆ ವಿವರಿಸಿರಿ.

2. Analyse the National Urban Sanitation Policy 2008.
   ರಾಷ್ಟ್ರೀಯ ನಗರ ನೈರ್ಮಲ್ಯ ನೀತಿ 2008 ಅನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ.

3. Discuss the various objectives of Swachh Bharat Abhiyan.
   ಸ್ವಚ್ಛ ಭಾರತ ಅಭಿಯಾನದ ವಿವಿಧ ಉದ್ದೇಶಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.

4. Discuss the gender issues related to sanitation.
   ನೈರ್ಮಲ್ಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಲಿಂಗ ಸಮಸ್ಯೆಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.

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G 105.1E

(2020 Batch onwards)

Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A. Semester I– Degree Examination
February - 2021
Open Elective (under CBCS)
Digital Literacy

Time: 2 Hours **Max. Marks: 50**

PART – A

Answer the following in 2-3 sentences each **(2x10=20)**

ಕೆಳಕಂಡ ಪ್ರಶ್ನೆಗಳಿಗೆ 2-3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. What is QR code?
   ಕ್ಯೂ ಆರ್ ಕೋಡ್ ಎಂದರೇನು?
2. Describe e-wallet with examples
   ಇ–ವಾಲೇಟ್ ಉದಾಹರಣೆ ಸಹಿತ ಬನ್ನಿಸಿ.
3. What is ebanking?
   ಇ–ಬ್ಯಾಂಕಿಂಗ್ ಎಂದರೇನು?
4. Explain UPI.
   ಯುಪಿಐಯನ್ನು ವಿವರಿಸಿ.
5. What is SPAM?
   ಸ್ಪ್ಯಾಮ್ ಎಂದರೇನು?
6. Explain the functions of CC and BCC.
   ಸಿಸಿ ಮತ್ತು ಬಿಸಿಸಿಯ ಕಾರ್ಯವನ್ನು ವಿವರಿಸಿ.
7. What is OTP?
   ಒಟಿಪಿ ಎಂದರೇನು?
8. Write a note on web browsers.
   ವೆಬ್ ಬ್ರೌಸರ್ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
9. What is cyber crime?
   ಸೈಬರ್ ಅಪರಾಧ ಎಂದರೇನು?
10. What are NEFT and RTGS?
    ನೆಫ್ಟ್ ಹಾಗೂ ಆರ್‌ಟಿಜಿಎಸ್ ಎಂದರೇನು?

PART- B

Write a short note on any Six of the following **(5x6=30)**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

1. How does AEPS work? What are the benefits of AEPS
   ಎಇಪಿಎಸ್‌ನ ಕಾರ್ಯ ಹಾಗೂ ಪ್ರಯೋಜನಗಳಾವುವು?

Contd...2

2. Write a note on the functions and benefits of social networking sites.
   ಸಾಮಾಜಿಕ ಜಾಲತಾಣಗಳ ಕಾರ್ಯ ಹಾಗೂ ಪ್ರಯೋಜನಗಳ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
3. What is cyber espionage? Provide suitable examples.
   ಸೈಬರ್ ಬೇಹುಗಾರಿಕೆ ಎಂದರೇನು? ಸೂಕ್ತ ಉದಾಹರಣೆ ನೀಡಿರಿ.
4. What are some of the ethics of Internet?
   ಅಂತರ್ಜಾಲದ ನೈತಿಕ ಅಂಶಗಳಾವುವು?
5. Write a note on the surface and dark web with suitable examples
   ಮೇಲ್ಮೈ ಮತ್ತು ಡಾರ್ಕ್ ವೆಬ್ ಕುರಿತು ಸೂಕ್ತ ಉದಾಹರಣೆಯೊಂದಿಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
6. Write a note on e-mail etiquette.
   ಮಿಂಚಂಚೆಯ ಶಿಷ್ಟಾಚಾರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
7. Discuss the case of Edward Snowden.
   ಎಡ್ವರ್ಡ್ ಸ್ನೋಡೆನ್ ಪ್ರಕರಣವನ್ನು ಚರ್ಚಿಸಿ.
8. Write a note on search engine.
   ಅಂತರ್ಜಾಲ ಶೋಧನ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

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(2019 Batch Only)

G 105.1E (R) Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A Semester I– Degree Examination
February 2021
Open Elective (under CBCS)
CREATIVE AND MEDIA WRITING SKILLS

Time: 2 Hours **Max. Marks: 50**

PART – A

Answer the following in 2-3 sentences each **(2x10=20)**

ಕೆಳಕಂಡ ಪ್ರಶ್ನೆಗಳಿಗೆ 2–3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. Beat ಸರಹದ್ದು
2. Lead ಪ್ರಸ್ತಾವನೆ
3. Byte ಬೈಟ್
4. Byline ಬೈ ಲೈನ್
5. Blurb ಸಾರಾಂಶ
6. Times of India ಟೈಮ್ಸ್ ಅಫ್ ಇಂಡಿಯಾ
7. Inverted pyramid style ತಲೆಕೆಳಗಾದ ಪಿರಾಮಿಡ್
8. Head line ತಲೆಬರಹ
9. Body language ದೇಹಭಾಷೆ
10. Interpersonal communication ಅಂತರಿಕ ಸಂವಹನ

PART- B

Write a short note on any Six of the following **(5x6=30)**

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ <u>ಆರು</u> ಪ್ರಶ್ನೆಗಳಿಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ:

1. News values
   ಸುದ್ದಿ ಮೌಲ್ಯಗಳು
2. Gesture in communication.
   ಆಂಗಿಕ ಭಾಷೆಯ ವಿಧಗಳು
3. Techniques of writing feature.
   ನುಡಿಚಿತ್ರ ಬರವಣಿಗೆ ತಂತ್ರಗಳು.
4. Journalistic writing.
   ಪತ್ರಿಕಾ ಬರವಣಿಗೆ
5. Art as a medium of communication.
   ಸಂವಹನ ಪ್ರಕಾರವಾಗಿ ಕಲೆ.
6. Structure of non-fiction presentation.
   ನಾನ್ ಫಿಕ್ಶನ್ ಬರವಣಿಗೆಯ ರಚನಾಕ್ರಮ
7. Types of lead.
   ಪ್ರಸ್ತಾವಣೆಯ ಪ್ರಕಾರಗಳು
8. Effective communication.
   ಪರಿಣಾಮಕಾರಿ ಸಂವಹನ.

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(2019 Batch Onwards)

G 106.1E

Reg. No. : | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A. Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

THE SCIENCE OF PERSONALITY

Time: 2 hrs. **Max Marks: 50**

PART – A

I Answer any FIVE from the following. **(5x2=10)**

1. What is ID?
2. What is sublimation?
3. Enlist any four symptoms of borderline personality disorder
4. Write any two traits of narcissism.
5. Name the three ways in which individuals escape freedom according to Fromm?
6. What is existential Vaccum?

II Answer any FOUR from the following. **(4x5=20)**

1. Write a note on Frankl's theory of personality.
2. Explain the characteristics of Narcissistic behaviour
3. Discuss Eric Fromm's theory of personality.
4. Write a note on the levels of consciousness.
5. Which among the theories learned appeals to you and why?

PART – B

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

6. Discuss the symptoms and causes of Histrionic Personality Disorder.

OR

Illustrate any five defense mechanisms

7. Discuss Julian Rotters social learning theory.

OR

Explain any two personality disorders.

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(2019 batch onwards)

G110.1E/G 512.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc. Semester I – Degree Examination

February 2021

Open Elective (Under CBCS)
Traditional Animation

Time: 2 hrs. **Max Marks: 50**

SECTION – A

1. Answer any FIVE from the following. **(5x2=10)**

a. Describe Phenakistoscope.

b. What is the importance of script in animate?

c. What is pencil test?

d. How onion skin is useful in animation.

e. Describe the importance of staging.

f. What do you mean by rotoscoping?

g. Define chuckimation.

SECTION – B

Answer any FOUR from the following. **(4x5=20)**

2. Explain full and limited animation.

3. Write a note on classical animation.

4. Explain the features of Animate CC

5. What is motion capturing?

6. Which are the clay modelling techniques?

SECTION – C

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

7. Explain few important animation types.

8. Name the early animation devices.

9. How to produce a good stop motion animation? Explain.

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G 111.1E

(2019 Batch onwards)

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A. Semester I – Degree Examination

February 2021

Open Elective (Under CBCS)

LIFE SKILLS

Time: 2 Hours **Max. Marks: 50**

PART A

I **Answer any FIVE questions in 2-3 sentences each.** **(2x5=10)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ 2 –3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. What is Life skills?
   ಜೀವನದ ಕೌಶಲ್ಯಗಳು ಎಂದರೇನು?
2. Mention any two benefits of Life skills to Students.
   ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಪ್ರಯೋಜನವಾಗುವ ಯಾವುದಾದರೂ ಎರಡು ಜೀವನದ ಕೌಶಲ್ಯಗಳನ್ನು ನಮೂದಿಸಿ.
3. What is meant by Negotiation?
   ಸಂಧಾನ ಎಂದರೇನು?
4. Specify any two categories of Cognitive skills.
   ಅರಿವಿನ ಕೌಶಲ್ಯಗಳ ಯಾವುದಾದರೂ ಎರಡು ವಿಭಾಗಗಳನ್ನು ಸೂಚಿಸಿ.
5. List any two types of Conflicts.
   ಘರ್ಷಣೆಗಳ ಯಾವುದಾದರೂ ಎರಡು ವಿಧಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡಿ.
6. What is meant by Critical thinking?
   ವಿಮರ್ಶಾತ್ಮಕ ಚಿಂತನೆ ಎಂದರೇನು?
7. State any two types of Emotions.
   ಭಾವನೆಗಳ ಯಾವುದಾದರೂ ಎರಡು ವಿಧಗಳನ್ನು ತಿಳಿಸಿ.

PART B

II **Answer any FOUR questions in 8-10 sentences each.** **(5x4=20)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ 8–10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. Write a short note on Effective communication skills.
   ಪರಿಣಾಮಕಾರಿ ಸಂವಹನೆಯ ಕೌಶಲ್ಯಗಳ ಬಗ್ಗೆ ಕಿರು ಟಿಪ್ಪಣಿ ಬರೆ.
2. Discuss the steps to be followed in Solving a problem.
   ಸಮಸ್ಯೆಗಳನ್ನು ಪರಿಹರಿಸುವಲ್ಲಿ ಅನುಸರಿಸಬೇಕಾದ ಕ್ರಮಗಳನ್ನು ಚರ್ಚಿಸಿ.
3. Describe briefly the concept of Coping with emotions.
   ಭಾವನೆಗಳನ್ನು ನಿಭಾಯಿಸುವ ಪರಿಕಲ್ಪನೆಯನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.
4. What techniques do you apply to become an Assertive?
   ಒಂದು ಪ್ರತಿಪಾದಕನಾಗಲು ನೀವು ಯಾವ ತಂತ್ರಗಳನ್ನು ಅನ್ವಯಿಸುತ್ತೀರಾ?

Contd...2

5. Write a brief note on Empathy.
   ಅನುಭೂತಿಯ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ.

6. How do you cope with emotions? Explain.
   ಭಾವನೆಗಳನ್ನು ಹೇಗೆ ಎದುರಿಸುತ್ತೀರಿ? ವಿವರಿಸಿ.

PART C

III Answer any TWO questions in 15-20 sentences each. **(10x2=20)**
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ 15–20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. How do you improve yourself by using Johari Window technique?
   ಜೋಹಾರಿ ವಿಂಡೋವನ್ನು ಬಳಸಿಕೊಂಡು ನೀವು ನಿಮ್ಮನ್ನು ಹೇಗೆ ಸುದಾರಿಸಿಕೊಳ್ಳುತ್ತೀರಿ?

2. Develop a strategy to manage Conflicts at work place.
   ಕೆಲಸದ ಸ್ಥಳದಲ್ಲಿ ಸಂಘರ್ಷವನ್ನು ನಿರ್ವಹಿಸಲು ತಂತ್ರವನ್ನು ಅಭಿವೃದ್ಧಿಪಡಿಸಿ.

3. Discuss the steps to be followed in Decision making.
   ನಿರ್ಧಾರ ತೆಗೆದುಕೊಳ್ಳುವಲ್ಲಿ ಅನುಸರಿಸಬೇಕಾದ ಕ್ರಮಗಳನ್ನು ಚರ್ಚಿಸಿ.

4. Analyse the various factors affecting Relationship.
   ಸಂಬಂಧದ ಮೇಲೆ ಪರಿಣಾಮ ಬೀರುವ ವಿವಿಧ ಅಂಶಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ.

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(2019 Batch onwards)

G 135.1E

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A. Semester I – Degree Examination

February 2021

Open Elective (Under CBCS)

A BRIEF HISTORY OF IDEAS

Time: 2 Hours **Max. Marks: 50**

UNIT I

I Answer the following in a word/ phrase or a sentence each. (10x1=10)

1. What is the meaning of *Gnothi seauton?*
2. Mention any three notable works of Immanuel Kant.
3. Alexander the Great was the student of Aristotle. True or False?
4. Who were the primary accusers of Socrates?
5. Who called Voltaire the man "into whose hands hell had given all its powers"?
6. It is believed that the oracle of Delphi pronounced Aristotle 'the wisest Greek.' True or False?
7. Kant believed in the existence of extra-terrestrial beings. True or False?
8. Who was referred as "the little minister" and "Jesus in the Temple" by his schoolmates?
9. What poison was used to kill Socrates?
10. What did Nietzsche call his "New God?"

UNIT II

II Answer any <u>FOUR</u> of the following in 100-150 words each. (4x5=20)

1. What led to the death of Socrates?
2. Elaborate on the 'Works of Aristotle'
3. Write a short note on Nietzsche's "Superman" with reference to *Thus Spake Zarathustra*.
4. Write a short note on Voltaire's views on **War** and **Utopia**.
5. Write a short note on Immanuel Kant's *The Critique of Pure Reason*.
6. Voltaire stated "that is the order of things, one nail drives out another; so, goes the world." In what context did Voltaire state this?

UNIT III

III Answer any <u>TWO</u> of the following in 200-250 words each. (2x10=20)

1. Voltaire got into many controversies during his time, leading to imprisonments. Elaborate.
2. Explain 'Metaphysics' and the 'Nature of god' according to Aristotle.
3. Write an essay on 'The Life and Death of Socrates.'

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G 306.1E Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Com. - Semester I Degree Examination

February 2021

Open Elective (Under CBCS)

HUMAN RESOURCE MANAGEMENT - I

Time: 2 hrs. **Max Marks: 50**

SECTION – A

Answer any FIVE from the following. **(5x2=10)**

1. What is panel interview?
2. What is Body shopping?
3. What is reference check?
4. Write any two qualities of Human Resource Manager?
5. Write any two advantages of Human Resource planning?
6. What is stress interview?
7. What do you mean by vestibule training?

SECTION – B

Answer any FOUR from the following. **(4x5=20)**

8. Explain briefly the steps in interview process.
9. Write a note on job analysis.
10. Explain the process of human resource planning?
11. Explain the advantages and limitations of job evaluation.
12. Explain the role and responsibilities of Human resource manager?
13. What are the techniques of training?

SECTION – C

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

14. What is recruitment? Explain various external sources of recruitment?
15. Explain the functions of Human resource department in the organization?
16. Explain the characteristics of a good job description.

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G 308.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Com. - Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

SHIPPING AND PORT MANAGEMENT

Time: 2 hrs. **Max Marks: 50**

SECTION – A

Answer any FIVE from the following. **(5x2=10)**

1. What is the role of stevedore?
2. What do you mean by crew management?
3. Write the meaning of ICD.
4. Name any two shipping agencies in India.
5. Name first ship building industry in India.
6. Mention any two characteristics of shipping industry?
7. Write any two role of technical department in shipping industry.

SECTION – B

Answer any FOUR from the following. **(4x5=20)**

8. Write the problems of Indian shipping industry.
9. What are the common features of liners and surveyors in shipping Industry?
10. What are the different types of containers?
11. Explain briefly the structure and practice of shipping freight rate.
12. Explain the process of container depot.
13. What is the role of shipping agents.

SECTION – C

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

14. Explain the main role and functions of ship management in shipping business.
15. Explain the role of commercial, technical and crewing departments in ship building industry?
16. What do you mean by containerization? Write the advantages and disadvantages of containerization?

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G 311.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Com. – Semester I – Degree Examination
February 2021
Open Elective (Under CBCS)
FUNDAMENTALS OF GST

Time: 2 hrs. **Max Marks: 50**

SECTION – A

Answer any FIVE from the following. **(5x2=10)**

1. State any two features of IGST Act.
2. What is Mixed Supply?
3. Mention the rates of GST notified by GST Council.
4. What do you mean by Input Tax Credit?
5. State the products which are outside the purview of GST.
6. What is Reverse Charge?
7. Define the term 'Agent' u/s 2(5) of CGST Act, 2017.

SECTION – B

Answer any FOUR from the following. **(4x5=20)**

8. Briefly explain the salient features of GST.
9. Explain the structure of GST (Dual) Model.
10. Write a note on location of supplier of goods and services.
11. Mr. Nagesh is a registered dealer in Haryana furnishes the following details. State the type of tax payable under GST law:
    1) Supplied goods to Kolkata
    2) Purchased goods from an unregistered dealer within the state of Haryana.
    3) Sold goods to Infosys Ltd., Bangalore.
    4) Supplied goods to NGO at Noida.
    5) Supplied goods for job work at Delhi
    6) Transfer goods to his branch at Pune.
    7) Supplied goods to Mumbai.
    8) Rendered services to Xylu Ltd. at Japan.
    9) Sold goods to Andaman.
    10) Received goods from Lakshadweep.
12. Ritu Pvt. Ltd. has the following details for the year 2019-20.

Intra-state supply	₹ 6,00,000
Inter-state supply	₹ 7,50,000
Value of Exports	₹ 1,05,000
Exempt Supplies	₹ 90,000
IGST paid	₹ 30,000

Compute the aggregate turnover under GST Act.

Contd...2

13. Classify the following supplies into Composite Supply and Mixed Supply. What is the rate of GST applicable and also calculate GST liability.
    a) M/s Gayathri, sold a combo pack consisting of a shirt, wrist-watch, wallet and a book. The special combo price was ₹ 7,000. GST for the shirt is 12%, watch is 18%, GST for wallet is 5% and for the book is Nil.
    b) Sharath, a laptop dealer sold a laptop along with the laptop bag for ₹ 48,000 plus GST. GST for the laptop is 18% and for laptop bag is 28%.

SECTION – C

Answer any <u>TWO</u> from the following. **(2x10=20)**

14. Explain the structure, powers and functions of GST Council.
15. M/s Gopal and Co. a registered dealer in Maharashtra furnishes the following information for the month of November 2019. Compute the turnover which is taxable under SGST/ CGST and IGST.
    1) Goods of ₹ 10,00,000 sold to a dealer at Patna (Bihar).
    2) Commodity worth ₹ 5,50,000 sold to an unregistered dealer of Assam.
    3) Goods of ₹ 5,50,000 supplied within the state.
    4) Goods worth ₹ 5,00,000 supplied to a unit of EOU at New Delhi.
    5) Goods amounting to ₹ 6,00,000 supplied to Andaman.
    6) Goods worth ₹ 6,50,000 received from an unregistered dealer at Nagpur.
    7) Commodity Z supplied to a dealer at London for ₹ 8,00,000.
    8) Goods of ₹ 2,50,000 supplied from job worker place directly to dealer of Pune.
    9) Commodity Z worth ₹ 6,10,000 transferred to their branches in Karnataka.
    10) Goods purchased from an unregistered dealer of Mumbai for ₹ 10,00,000.
16. Explain the activities to be treated as supply of goods or supply of services under Section 7 of the CGST Act.

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G 312.1E (P)

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Com. Vocational Semester I – Degree Examination

January/February 2021

Open Elective (Under CBCS)

FUNDAMENTALS OF MATHEMATICS

Time: 2 hrs. **Max Marks: 50**

SECTION – A

Answer any TWO questions of the following: **(2x2=4)**

1. The diagonal of a rectangle is 5 cm and one of at sides is 4 cm. Its area is:
2. The equation $-7x + 1 = 5 - 3x$ will be satisfied for x equal to:
3. What is a, if $A = \begin{pmatrix} 2 & 3 \\ 4 & a \end{pmatrix}$ is a singular matrix?

SECTION – B

Answer any TWO questions of the following: **(2x12=24)**

4.

a) The equation $\left(\frac{l-m}{2}\right)x^2 - \left(\frac{l+m}{2}\right)x + m = 0$ has got two values of x. The values are:

(6 marks)

b) The sum of $1 + 1/3 + 1/3^2 + 1/3^3 + \ldots + 1/3^{n-1}$ is

(4 marks)

c) The value of x such that $8x + 4, 6x - 2, 2x + 7$ will form an AP is:

(2 marks)

5.

a) The m^{th} term of an A. P. is n and n^{th} term is m. The r^{th} term of it is

(6 marks)

b) Find the value of $\begin{pmatrix} 1 \\ 2 \\ 5 \end{pmatrix} * (3 \quad 4 \quad 5 \quad 6)$:

(4 marks)

c) An employer recruits experienced (x) and fresh workmen (y) for his firm under the condition that he cannot employ more than 9 people. x and y can be related by inequality as:

(2 marks)

6.

a) The sum of n terms of an AP is $3n^2 + 5n$. The series is:

(6 marks)

b) If x, y, z are in GP. Then the terms $x^2 + y^2, xy + yz, y^2 + z^2$ are in:

(4 marks)

c) On the average experienced person does 5 units of work while a fresh one 3 units of work daily but the employer has to maintain an output of at least 30 units of work per day. This situation can be expressed by inequality as:

(2 marks)

Contd...2

Answer ONE question of the following: **(1x16=16)**

7.

a) A dietitian wishes to mix together two kinds of food so that the vitamin content of the mixture is at least 9 units of vitamin A, 7 units of vitamin B, 10 units of vitamin C and 12 units of vitamin D. The vitamin content per Kg. of each food is shown below:

	A	B	C	D
Food I	2	1	1	2
Food II	1	1	2	3

Assuming x units of food I is to be mixed with y units of food II the situation can be expressed as

(6 marks)

b) Find the value of $\begin{pmatrix} 1 & -2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{pmatrix} * \begin{pmatrix} 1 & 3 & 5 \\ 0 & 2 & 4 \\ 3 & 0 & 5 \end{pmatrix}$:

(6 marks)

c) The number of numbers between 74 and 25,556 divisible by 5 is

(4 marks)

8.

a) $4x - 5y - 2z = 0,\ 2x + 2y + z = 2, 2x + 2y + 8z = -1$. Then the value of $x, y\ and\ z$ using Cramer's rule is

(6 marks)

b) A firm makes two types of products: Type A and Type B. The profit on product A is Rs. 20 each and that on product B is Rs. 30 each. Both types are processed on three machines M1, M2 and M3. The time required in hours by each product and total time available in hours per week on each machine are as follows:

Machine	Product A	Product B	Available Time
M1	3	3	36
M2	5	2	50
M3	2	6	60

The constraints can be formulated taking x = number of units A and y = number of units of B.

(6 marks)

c) The 4 arithmetic means between –2 and 23 are

(4 marks)

SECTION – D

Answer the following – Compulsory **(1x6=6)**

9. If p and q are the roots $x^2 + 2x + 1 = 0$ of then the values of $p^3 + q^3$ is:

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(2019 Batch Onwards)

G 406.1E (R)

Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.B.A. - Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

INSURANCE MANAGEMENT

Time: 2 hrs. **Max Marks: 50**

SECTION – A

1. **Answer any <u>TEN</u> of the following questions in two or three sentences each.** **(10x2=20)**

a) What is marine insurance?
b) Who is an underwriter?
c) State any two players in life insurance industry.
d) What is privatization of insurance?
e) What do you mean by claim settlement?
f) Give the meaning of insurance.
g) What do you mean by Causa Proxima?
h) Expand IRDA.
i) State any four forms of property insurance.
j) What are life insurance riders?
k) Who is an insured?
l) State any two needs for information technology in insurance.

SECTION – B

2. **Answer any <u>FOUR</u> of the following questions in not less than one page each.** **(4x5=20)**

a) Explain in brief the different players in general insurance policy.
b) What are the basic components of life insurance contract?
c) Explain the important provisions of IRDA.
d) Briefly explain the contractual provisions of life insurance.
e) What is the claim procedure in life insurance? Explain.
f) What are the benefits of insurance? Explain.

SECTION – C

3. **Answer any <u>ONE</u> question in not less than two pages each.** **(1x10=10)**

a) Explain the principles of insurance.
b) Explain the products and provisions of general insurance contract.
c) A insured goods which were in transit on board a ship and sold the same goods to Z. The goods were subsequently lost by a peril insured against. Z as the assignee of the policy, filed claim to recover the money due under the policy, but the insurance company contends that Z has not insurable interest in the goods at the time they were insured.
   a) Explain the different principles of Marine Insurance.
   b) Whether 'Z' will succeed in getting the claim?

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(2019 Batch Onwards)

G 407.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.B.A. - Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

COMPUTER APPLICATION IN BUSINESS

Time: 2 hrs. **Max Marks: 50**

SECTION – A

1. **Answer any TEN of the following questions in two or three sentences each.** **(10x2=20)**

a) What is E-Commerce?

b) List the benefits of E-Commerce.

c) What are the menus available in MS-Word?

d) List the toolbars present and their purpose in MS-Word.

e) Name the different types of Charts in MS Excel.

f) What are the main features of MS-Excel?

g) What are the three types of addressing modes available in MS-Excel?

h) What is the role of formulas in MS-Excel?

i) Define encryption.

j) How can we authorize the payment through online?

k) What is SET?

l) List the type of Fields available in MS Access table.

SECTION – B

2. **Answer any FOUR of the following questions in not less than one page each.** **(4x5=20)**

a) What is mail merge? Explain the steps to create a mail merge.

b) Explain in detail the conditional logic functions in MS-Excel.

c) Write a note on the database functions in MS-Excel.

d) What do you mean by sniffing and spoofing? Explain.

e) Describe the procedure for creating forms using form wizard in Access.

f) Explain the steps to create a report in MS-Access.

SECTION – C

3. **Answer any ONE question in not less than two pages each.** **(1x10=10)**

a) Describe the different types of E-Commerce.

b) Explain in detail the data analysis tools of MS-Excel.

c) What type of electronic payment systems are required in E-Commerce? Why are there different types of payment systems? Explain the necessary characteristics of each type of payment system and give an example of each where it is used.

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(2019 Batch Onwards)

G 409.1E Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.B.A. - Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

PERSONALITY DEVELOPMENT

Time: 2 hrs. **Max Marks: 50**

SECTION – A

1. **Answer any TEN of the following questions in two or three sentences each.** **(10x2=20)**

a) What is stress?

b) Give the meaning of self-discovery.

c) What is disaster oriented personality?

d) What is attitude?

e) Define personality.

f) Who propounded the term 'Know Thyself'?

g) What is acute stress?

h) How does a negative attitude affect a person?

i) What do you mean by SWOT analysis?

j) What is teenage stress?

k) What do you mean by anger management?

l) Give any two examples for positive attitude.

SECTION – B

2. **Answer any FOUR of the following questions in not less than one page each.** **(4x5=20)**

a) Explain the benefits of SWOT analysis.

b) State the benefits of positive attitude.

c) Suggest some of the stress management tips.

d) How can self-discovery help us in improving our self?

e) Explain the features of attitude.

f) Explain the kinds of stress.

SECTION – C

3. **Answer any ONE question in not less than two pages each.** **(1x10=10)**

a) Knowing others is knowledge and knowing self is wisdom. Comment?

b) State the effects of stress?

c) What are the effects of negative attitude? Suggest few measures to overcome negative attitude.

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(2019 Batch Onwards)

G 501.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. - Semester I – Degree Examination

February 2021

Open Elective (Under CBCS)

ELECTRICAL CIRCUITS AND NETWORK SKILLS

Time: 2 hrs. **Max Marks: 50**

PART – A

I. Answer any FIVE of the following. **(2x5=10)**

1. Give any two applications of a multimeter.
2. What is the significance of ampere-hour rating of a battery?
3. Differentiate between electrolytic and non-electrolytic capacitors.
4. Diode is a unidirectional device. Why?
5. What is an ELCB?
6. Power dissipation in the neutral wire is zero. Explain why?

PART - B

II. Answer any THREE of the following. **(10x3=30)**

1. a) Explain a typical domestic electric wiring circuit. **(6)**
   b) What is reactance? Write the expression for inductive and capacitive reactance. **(4)**
2. a) What is rectification? Explain the working of a half wave rectifier. **(6)**
   b) Explain the schematic of extension board. **(4)**
3. a) Describe the four major classes of switches. **(6)**
   b) Explain acceptor circuits. **(4)**
4. a) i) Describe briefly the operation of a circuit breaker.
      ii) What are the advantages of circuit breaker over a fuse? **(6)**
   b) Describe the working of an AC generator. **(4)**
5. a) What is AC? Write a note on any four characteristics of an AC waveform. **(6)**
   b) With a neat circuit diagram, describe the working of a relay. **(4)**

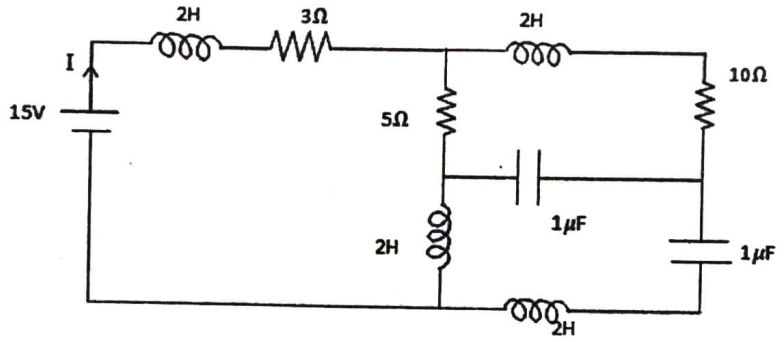
PART - C

III. Answer any TWO of the following. **(5x2=10)**

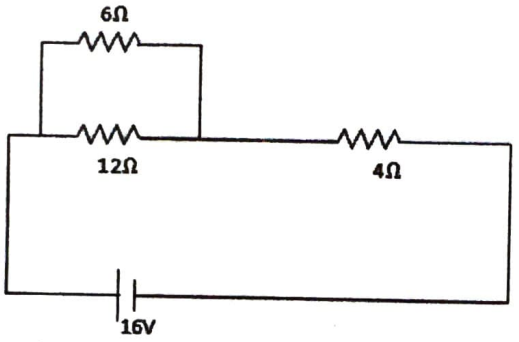
1. A 60 watt, 230V bulb is connected across single phase AC of 230V, 50Hz. Total resistance of the line wiring is 80ohms. Calculate the load current.

Contd...2

2. Reduce the following circuit and find the current I and voltage across the 5Ω resistor.



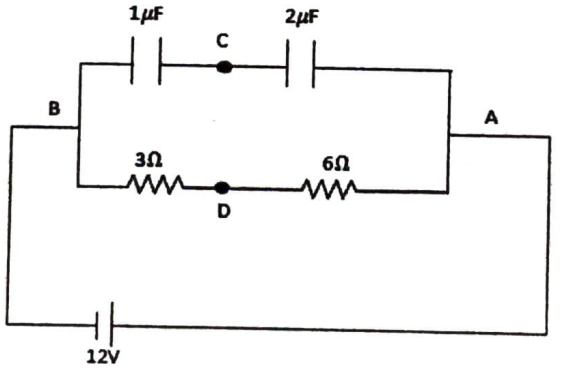
3.



In the above circuit –

Find current in each resistor.

4. Determine the potential difference between the points 'C' and 'D' in the given circuit.



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(2019 batch onwards)

G 502.1E

Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

February 2021

Open Elective (Under CBCS)

ESSENTIALS OF PRACTICAL CHEMISTRY

Time: 2 hrs. **Max Marks: 50**

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

PART – A

1. **Answer any <u>FIVE</u> of the following questions in 1 to 3 sentences** **(2x5=10)**

a) What is the use of chemical balance in the laboratory?

b) Why sodium metal is kept in kerosene oil.

c) Give the method preparation of derivative for acid?

d) What is washing liquid? Give an example?

e) What is meant by solubility?

f) What is the role of anhydrous $CaCl_2$ in Liebig's method?

PART – B

2. **Answer any <u>FIVE</u> of the following questions in 2 to 5 sentences.** **(3x5=15)**

i) Briefly explain the method of determination of boiling point?

ii) Differentiate between wet and dry tests.

iii) How is bromine water prepared?

iv) What is meant by calibration? What is its importance?

v) With an example, explain common ion effect.

vi) Write a note on Fractional precipitation.

PART – C

Answer any <u>FIVE</u> of the following questions. **(5x5=25)**

3) Why is chemical safety important? Give a brief note on safe use of chemicals.

4) Give the tests for detection of unsaturation with example.

5) Write the tests for the detection of phenol.

6) Write a note on drying and igniting precipitates.

7) Discuss the factors affecting solubility of salts?

8) Describe the principle and calculations involved in the estimation of halogens in an organic compound by Carius method.

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(2019 Batch onwards)

G 503.1E

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

February 2021

OPEN ELECTIVE

FUNCTIONS AND APPLICATIONS

Time: 2 Hours **Max. Marks: 50**

Note: Answer all parts

PART – A

Answer any FIVE of the following. **(5×2=10)**

1. If the demand and supply equations are given by $x_d = 100 - 8P_d$ and $x_s = 3P_s^2$ respectively, find equilibrium values of price and quantity.
2. Define breakeven point.
3. Two points on a linear supply relation are (45000, ₹ 25) and (75000, ₹ 50). What will be the supply when price is ₹ 60?
4. Define income elasticity of demand.
5. Find elasticity of demand of the function $x = 100 - 5P$ at $P = 10$.
6. Explain the term maximization of revenue.
7. Define cross elasticity of demand.
8. A monopolist with the cost function $C(x) = \frac{1}{2}x^2$ faces a demand curve $P = 12 - x$ what will be the monopolists equilibrium price.

PART – B

UNIT - I

Answer any TWO of the following **(2×5=10)**

1. A company making chocolates found that daily cost of making x Kgs of chocolates is $TC = 600 + 85x$.
   a) If the chocolates can be sold for ₹ 125/Kg , find the level of output per day for breakeven.
   b) If the company is sure of selling 20 Kgs every day determine the least price that should be charged in order to guarantee no loss.
2. The total cost of producing x units of a commodity is $C = 200 + 2.5x$. If it can be sold for ₹ 7.5 per unit find brekeven point. Alternatively if you can use another plant with a total cost of production as $C = 210 + 2.40x$. Would it be advantages to use this plant?
3. If the demand of a commodity is given by $x = 150 - 5P$. Show that the total revenue curve is a parabola. Locate vertex, focus and equation of directrix. By drawing graph of a parabola, find the level of output where total revenue is maximum.

Contd....2

Answer any ONE of the following **(1×10=10)**

1. a) When the price of a commodity is ₹ 15 per unit, the quantity demanded and supplied are 84 and 36 units respectively. When price becomes ₹ 28 per unit the quantity demanded are 19 and 75 units respectively. Assuming that the demand and supply equations are linear, find the following:
   i) The demand equation
   ii) The supply equation
   iii) The equilibrium price and quantity
   iv) If the government imposes a tax of ₹ 4 per unit on the commodity, find new equilibrium price and quantity. **(6)**

   b) The demand for skilled workers in an industry is $L_d = 1300 - 40W_d$ and its supply is $L_s = 100 + 80W_s$ where L is the number of workers and W is the wage rate per hour.
   i) Find equilibrium values of L and W.
   ii) If the Government wishes to raise the equilibrium wage to ₹12 by offering a wage subsidy, find the value of L, the rate of subsidy and the cost of subsidy to the Government. **(4)**

2. a) A book publisher finds that the production cost of a book is ₹ 30 and fixed cost per year amounts to ₹ 25,000. If each book is sold at a rate of ₹ 50, find
   i) The cost function
   ii) The revenue function
   iii) The minimum number of books sold per year in order that there is no loss.
   iv) If the publisher knows that he can sell atleast 1500 copies in a year, what price should he charge in order to guarantee no loss. **(6)**

   b) The demand equation of a commodity is given by $p - 40 - 2x$ and the total cost of producing x units is $TC = x^2 + 20x + 25$ where p is the price and x denote thousand units. Find the level of output to make sure that the business breaks even. **(4)**

UNIT - II

Answer any TWO of the following **(2×5=10)**

1. A manufacturer can sell x items $(x \geq 0)$ at a price of ₹ $(330 - x)$ each. The cost of producing x items is ₹ $(x^2 + 10x + 12)$. How many items should the manufacturer sell to make profits? Also determine the maximum profit.
2. The inverse demand and supply of a commodity in a perfectly competitive market are given by $P = f(Q)$ and $P = g(Q)$ where $f'(Q) < 0$ and $g'(Q) > 0$. If a specific tax of ₹t per unit is imposed, show that equilibrium output decreases as tax rate 't' increases.

Contd....3

3. A firm find that quantity demanded and supplied are 4 units when market price is ₹ 9 per unit. It is known that the demand becomes zero it the price increases to ₹15 per unit and the firm is not willing to supply if price reduces to ₹ 3 per unit. Determine the price elasticities of demand and supply at the equilibrium point, assuming both the demand and the supply relation as linear.

Answer any ONE of the following **(1×10=10)**

1. a) A cultural organization is arranging a Kathakali dance program in a city. It expects that 300 persons would attend the show if the entrance ticket is ₹ 8. It has also estimated that for a unit decrease in entrance, 60 additional person would attend the program. Express the revenue of the organization as a function of the entrance fee. What should be the entrance fee so that the organization get maximum revenue?

(6)

b) If the demand law is $Q = ae^{-bp}, (a,b>0)$ express marginal revenue as a function of Q. At what levels of output and price the total revenue is maximum? Also find maximum total revenue.

(4)

2. a) A wholesaler of pencils charges ₹ 24 per dozen on orders of 50 dozens or less. For orders in excess of 50 dozens, the price is reduced by ₹ 0.2 per dozen in excess of 50 dozens. Find the size of the order that maximizes total revenue.

(6)

b) The demand of a commodity is $Q = 48 + 5P - P^2$. Determine the value of P for which the demand is elastic, inelastic and unitary elastic.

(4)

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G 504.1 E

(2019 Batch onwards)

Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February-2021
Open Elective (Under CBCS)
Electronic Devices and Applications

Note: This question paper has three sections. Section A, Section B and Section C. Answer all the sections.

Time: 2 hrs. **Max Marks: 50**

SECTION – A

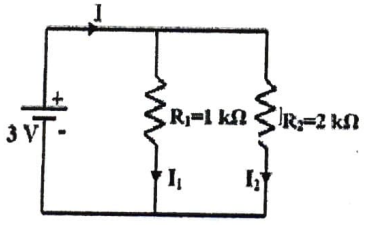
I. Answer any FIVE questions: **(5x2=10)**

i) State Ohm's law. Give the equation.
ii) State voltage divider rule. Give the equation.
iii) Find the
   a) value of the resistor having color code Yellow, Violet, Red and silver.
   b) Color code of a resistor 1.8MΩ.
iv) What do you mean by Linear devices? Give one example.
v) Convert the decimal number 33 into its equivalent binary number.
vi) Draw the circuit symbols of LED and n-p-n transistor.
vii) Draw the circuit diagram of a bridge rectifier.

SECTION – B

II. Answer any <u>FOUR</u> questions. **(4x5=20)**

i) Explain the difference between the direct current and the alternating current.
ii) Explain Unilateral and Bilateral devices with an example.
iii) Find the effective resistance and the branch currents.



iv) Obtain the truth table of Boolean equation Y(A,B,C)=A+AB. Draw the logic circuit of this equation using AND-OR gates.
v) Explain how a transistor can be tested for its condition using a Multimeter.
vi) Write a note on transformers.

SECTION – C

III. Answer any <u>TWO</u> full questions. **(10x2=20)**

1. a) Briefly explain the different branches of electronics.
   b) State current divider rule and derive the expression for branch currents when two resistors are connected in Parallel. **(5+5)**

2. a) Derive the expression for effective resistances when many resistors are connected in series.
   b) Explain Active and Passive components with an example. **(5+5)**

3. a) With necessary diagrams explain the formation of depletion region in an unbiased diode
   b) Explain the characteristics of a zener diode. **(5+5)**

4. a) Realize XOR and EXNOR gates using only NAND gates
   b) Explain the action of a transistor as a switch. **(5+5)**

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(2019 onwards)

G505.1E(i) Reg. No.: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. -Computer Science Semester–I Degree Examination
February 2021
Open Elective (Under CBCS)
Introduction to Computers

Time: 2 hrs. **Max Marks: 50**

Section – A

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

a. Write the 1's and 2's complement of 10110.

b. Write the use of 'Preset' and 'Clear' inputs in flip-flops.

c. Write any two differences between primary memory and secondary memory.

d. What is an operating system? Give two examples.

e. Define Internet and www.

f. Differentiate RAM and ROM.

g. Write the general structure of 2 and 3variables K-Map.

Section – B

Answer any FOUR of the following questions. **(4x5=20)**

2. Explain the components of a computer system with a neat diagram.

3. Prove that NAND gate is universal gate.

4. Explain i) Cache memory ii) Register memory

5. Perform following conversions i) $1AB.8_{(16)} = ?_{(10)}$ ii) $67.4_{(10)} = ?_{(2)}$

6. Write a note on different types of Network.

Section– C

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

7. State and prove any five theorems of Boolean Algebra.

8. List and explain any 5 applications of Internet.

9. a) Use a Karnaugh map to minimize the following expression and write the logic circuit for the simplified expression.

$\overline{A}\overline{B}\overline{C} + \overline{A}\overline{B}C + \overline{A}B\overline{C} + ABC + A\overline{B}\overline{C} + A\overline{B}C$ (5)

b) Explain D flip-flop with block diagram and truth table. (5)

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G 506.1E

(2019 Batch Onwards)
Reg. No. :

St Aloysius College (Autonomous)
Mangaluru
Open Elective (Under CBCS)
B.Sc. - Semester I
February 2021
Applied Statistics

Time: 2 Hours **Max Marks: 50**

PART - A

I. Answer any FIVE of the following. **(2x5=10)**

1. Define Crude Death Rate and Age Specific Fertility Rate.
2. Define a) Radix and b) Mortality Ratio in a life table.
3. What do you mean by Price Relative? How do you obtain it?
4. Construct a suitable Index number if $\sum WP = 3940$ and $\sum W = 20$.
5. Give an example for a secular trend and irregular variation in Time series.
6. Write down the normal equations for fitting a second degree curve.
7. If P_{01}(Las)=140 and P_{01}(Paas)=120. Then what is P_{01}(Fisher)?

PART - B

II. Answer any SIX of the following. **(5x6=30)**

8. Explain the method of collection of Vital Statistics.
9. What is a Life Table? How do you construct it?
10. The mid- year population of a city in an year was 5,90,400.If there were 11520 births and 5200 deaths in the year in a city compute Crude Death Rate and Crude Birth Rate.
11. Define Consumers Price Index Number? How do you construct a Consumers Price Index Number?
12. a) Why Fisher's Index Number is called as an Ideal Index Number? **(2)**

    b) A family budget enquiry revealed that the expenditure of families are 30%,15%, 20%, 10% and 25% respectively on food, house rent, clothing, fuel & lighting and others. If the respective group indices are 200, 150, 150, 250 and 160, find the cost of living Index Number. **(3)**
13. Distinguish between Seasonal and Cyclical Components of time series.
14. Using 3 yearly Moving Averages determine the trend for the data given below

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018
Production (in '000 tonnes)	21	22	23	25	24	22	25	26	27

Contd...2

15. The prices per unit and the number of units consumed for 4 commodities A, B, C and D for two time periods are given below. Construct price index numbers using Paasche's and Laspeyre's method.

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	1	6	3	5
B	3	5	8	5
C	4	8	10	6
D	2	9	12	6

PART - C

III. Answer any <u>ONE</u> of the following. **(10x1=10)**

16. a) Explain the method of least squares for fitting an exponential trend of the type $y = ab^x$. **(5)**

b) Fit a trend for the time series of annual output of factory for the period 2006-2014 given in the below table using the method of semi averages

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014
Output (in '000)	17	22	18	26	16	27	17	24	28

(5)

17. Construct Laspeyre's and Paasche's Price Index Numbers and hence obtain Fisher's Index Number for the following data.

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	6	30	15	40
B	5	40	10	55
C	10	25	12	20
D	4	15	3	30
E	2	20	5	28

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(2019 batch onwards)

G 507.1E

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

ORGANIC FARMING

Time: 2 hrs. **Max Marks: 50**

SECTION – A

I. Answer any FIVE from the following. **(5x2=10)**

1. Which nutrient is added to the soil by a cyanobacteria? Give two examples for such Cyanobacteria.
2. What are Mycorrhizae? Mention their types.
3. Write any two uses of neem cake.
4. What is mulching? Write its advantage.
5. Define crop rotation. What is its use?
6. What are weeds? Give two examples.

SECTION – B

II. Answer any FOUR from the following. **(4x5=20)**

1. Explain the preparation techniques of Biogas.
2. Give an account of Integrated farming.
3. Explain how the biodegradables wastes are segregated from non biodegradable wastes?
4. Write a note on biofertilizers with two examples.
5. What is monoculture? Explain its advantages and disadvantages
6. Explain the role of *Trichoderma* in controlling soil borne pathogenic fungi.

SECTION – C

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

1. What is Vermicomposting? Explain the techniques involved in the production of vermicompost. Add a note on its uses.
2. Explain the role of any four macronutrients in plants growth.
3. Give an account of scope and advantages of organic farming.
4. Explain the integrated pest management with suitable examples.

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(2019 Batch Onwards)

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. - Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

AQUARIUM MAINTENANCE AND FISH BREEDING TECHNIQUES

Time: 2 hrs. **Max Marks: 50**

SECTION – A

I. Answer any TEN of the following in 2-3 sentences each. **(2x10=20)**

1. Write any two benefits of aquarium keeping.
2. Where and when did aquaculture begin?
3. What is lateral line? Explain.
4. Name any two oviparous fish.
5. Explain the function of aerator in an under gravel filtration system.
6. What is the sealant used in glass aquarium and what is the tool required to use it?
7. What is Bog wood, what is it used for?
8. Write any two differences between Goldfish and Koi.
9. What is a top filter?
10. Name any two pigments that give fish their color.
11. What is gravid spot?
12. Explain the term cross breeding.

SECTION - B

II. Answer any SIX of the following in not more than 150 words each. **(5x6=30)**

1. Write a note on history of aquarium keeping.
2. Differentiate between egg laying and live bearing fish giving suitable examples.
3. Give an account of sense organs in fish.
4. What is biological filtration in an aquarium? Explain.
5. Give an account of any five common diseases in fish.
6. Write a note on breeding of Goldfish.
7. Summarize the stages of nitrogen cycle in an aquarium.
8. How are invertebrates useful in an aquarium? Explain.

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(2019 Batch Onwards)

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. - Semester I– Degree Examination
February 2021
Open Elective (Under CBCS)
TECHNIQUES IN MICROBIOLOGY

Time: 2 hrs. **Max Marks: 50**

Instructions: Answer PART A AND B AND C
Draw Diagrams wherever necessary.

PART – A

1. **Define /Answer any <u>FIVE</u> of the following:** **(2x5=10)**

a) Fluorescence

b) CLSM

c) Ascending chromatography

d) Silica

e) Cuvette

f) Sheath fluid

PART - B

Answer <u>ONE</u> full Question choosing 'a' or 'b' and 'c' is compulsory. **(15x2=30)**

UNIT -I

2. a) Explain the technique of chromosome banding. **(9)**

OR

b) Discuss the applications of confocal microscope.

c) Write briefly on Negative staining. **(6)**

UNIT -II

3. a) Give an account on the principle of chromatography and it's types. **(9)**

OR

b) Explain the working of a Spectrophotometer.

c) Write a note on Autoradiography. **(6)**

PART - C

Answer any <u>TWO</u> of the following. **(5x2=10)**

4. a) Chromosome painting.

b) Applications of Fluorescent microscope.

c) Pulse chase experiment.

d) TLC.

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(2019 Batch Onwards)

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

PROTEIN BIOCHEMISTRY

Time: 2 hrs. **Max Marks: 50**

PART – A

I. Answer any TEN of the following. **(10×2=20)**

1. Why amino acids are called α-amino acids except proline?
2. Define peptide bond.
3. Write the difference between tertiary and quaternary structure of protein with example.
4. What are transmembrane proteins?
5. What is ultrasonication?
6. Write the principle of ammonium sulphate precipitation.
7. What is isoelectric point? Give example of any two amino acid isoelectric point.
8. Mention the types of ion exchangers with example.
9. Define chromatography.
10. Write the application affinity chromatography.
11. What is 2-D electrophoresis?
12. What is dialysis?

PART – B

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

1. Explain the secondary structure of protein with example.
2. Write about different methods for lysis of protein
3. What is ammonium sulphate method of precipitation? Explain.
4. Write principle and application of HPLC.
5. Explain SDS-PAGE. Mention its applications.
6. What is NMR? Explain its principle and applications.
7. By which chromatographic technique you purify protein based in molecular size? Explain.
8. Write the basic principle involved in Mass spectrometer.

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(2020 Batch Onwards)

G 511.1E

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I– Degree Examination
February 2021
Open Elective (Under CBCS)
Food Processing Technology

Time: 2 hrs. **Max Marks: 50**

SECTION – A

I. Answer any FIVE from the following. **(5x2=10)**

1. Define proximate analysis
2. What is the significance of separation process?
3. How drying helps in food preservation?
4. What is indirect freezing? Give one advantage of it
5. Give two examples of foods processed by freezing
6. Define smart packaging

SECTION – B

II. Answer any FOUR from the following. **(4x5=20)**

1. Write a short note on microbial spoilage of food
2. Explain the principle of chemical method of food preservation
3. Write a short note on distillation
4. Explain normal drying curve
5. Write the properties of packaging material
6. What are the effects on properties of food during dehydration process?

SECTION – C

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

1. Write a brief note on intrinsic and extrinsic factors affecting growth and survival of microbes in food
2. Explain the physical methods of food preservation
3. Describe the packaging of frozen products and dried products
4. Explain the lethality concept and its significance by calculating lethality of any one food item

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(2019 batch onwards)

G 604.1E

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St Aloysius College (Autonomous)

Mangaluru

B.C.A. Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

COMPUTER NETWORKS

Time: 2 hrs. **Max Marks: 50**

SECTION – A

1. Answer any FIVE from the following. **(5x2=10)**

a. Write the advantages of local area Network.

b. Distinguish between Unicasting and Broadcasting?

c. Explain attenuation and Noise.

d. List the Network devices for WAN.

e. Distinguish between half duplex and full duplex.

f. Write the range of first octet in class A,B and class C IP address.

g. What is subnet mask? Why subnet mask is used?

SECTION – B

Answer any FOUR from the following. **(4x5=20)**

2. Write a note on WAN.

3. Explain Ring topology and star topology.

4. Explain the working of Router.

5. Write a note on Binary notation and dotted decimal notation used with IP address.

6. Write a note on Checksum to detect the error with an example.

SECTION – C

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

7. Explain briefly the TCP/IP reference model.

8. Write a short note on:

   (i) Circuit switching ii) packet–switching

   (iii) Message switching

9. Distinguish between subnetting and supernetting. Give an example for subnetting.

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(2019 Batch Onwards)

G 605.1E

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Mangaluru

B.C.A. Semester I– Degree Examination

February 2021

Open Elective (Under CBCS)

CYBER SECURITY

Time: 2 hrs. **Max Marks: 50**

SECTION – A

1. **Answer any FIVE from the following.** **(5x2=10)**

a. Write the different technologies used for the security of data?

b. What do you mean by Qualitative Risk Analysis?

c. What is Application Security?

d. What are security threats? Write the different types.

e. What do you mean by cryptography?

f. Write the characteristics of the firewall?

g. What is Access Control in security technology?

SECTION – B

Answer any FOUR from the following. **(4x5=20)**

2. What is Cyber Security? How to secure your information? Explain in detail.
3. Explain any five risks related to Database Security.
4. What are the physical security countermeasures for computer system? Explain.
5. What are the different types and techniques of Credit Card Frauds? Explain.
6. What is VPN? Explain the types of VPN.

SECTION – C

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

7. What is Information Assurance? Explain the three dimensional Information Assurance model with help of diagram.
8. Explain intrusion detection system.
9. Explain the Backup Security Measures while developing secure information system.

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