

(2019 batch onwards)

G 135.1/335.1/435.1/535.1/635.1

Reg. No:

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St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.B.A./B.Sc./B.C.A. Semester I - Degree Examination

February - 2021

ENGLISH

Time: 3 Hours

Max. Marks: 100

UNIT - I (PROSE)

I. A. Answer the following in a word/phrase/sentence each. (5x1=5)

1. What according to Tocqueville is the term used to suggest the root of patriotism among American people?
2. What qualities of his father did Kalam inherit?
3. Who complained that 'wealth accumulates and men decay'?
4. Who is the Dravidian referred to in the story 'A Hanging'?
5. Leacock draws a hilarious sketch of two rich business men trying to boast of their humble beginnings in life. True/ False.

B. Answer any FIVE of the following in about 200 words each.

(5x5=25)

1. Comment on the author's opinion of American's and the kind of patriotism they display.
2. Tocqueville states that patriotism 'is in itself a kind of religion; it does not reason, but it acts from the impulse of faith and sentiment'. Do you agree or disagree with this statement? Provide reasons for your answer.
3. 'Kalam's parents lived a life of piety and discipline'. Substantiate this idea with examples.
4. Write a short note on the people who had influenced Kalam as a young boy.
5. Discuss how capitalism turns people into 'dangerous lunatics in the real world' with reference to 'How Wealth Accumulates and Men Decay'.
6. What impression of the narrator do you get at the end of the essay 'A Hanging'? Why?
7. Discuss how the two business men compete with each other in 'Self-made Men'.

UNIT - II (POETRY)

II. A. Answer the following in a word/phrase/sentence each. (5x1=5)

1. In the poem 'Night and Death', who does 'Our First Parent' refer to?
2. What were some of the tools used to create the tiger?
3. If death stopped for 'wise men', what would they want to do?
4. In the poem, 'A Hot Noon in Malabar', who reads palm in a light singsong voice?
5. Who are the two imposters according to Kipling who need to be treated equally?

B. Answer any FOUR of the following in about 120 words each.

(4x5=20)

1. Explain how cosmic pattern is connected to the pattern of human life in the poem 'Night and Death'.
2. How does Blake define the characteristics of the tiger in the poem 'The Tyger'?

Contd...2

G. 135.1/335.1/435.1/535.1/635.1

3. Analyse the various images used in the poem 'Do Not Go Gentle into That Good Night'.
4. Explain the theme of the poem 'Night and Death' and bring out the connection between the two as depicted by the poet.
5. Do you think the poem 'A Hot Noon in Malabar' effectively conveys the poet's sense of nostalgia? Explain.
6. Why is Kipling's poem titled 'If'?

UNIT - III (SHORT - STORY)

III. Answer any **THREE** of the following in about 150 words each: (3x5=15)

1. Do you think Celia and Ronald will make an ideal couple? Justify your answer.
2. Discuss the tone of the story 'Getting Married'. How does the narrator bring out this tone?
3. Why does Pahom buy more and more land? What does this signify?
4. How much land does a man actually need according to Leo Tolstoy's short story 'How Much Land Does a Man Need'?
5. What is the significance of the argument that the two sisters have in the story 'How Much Land Does a Man Need?' How is it related to what happens later?

UNIT - IV (Grammar and Writing Skills)

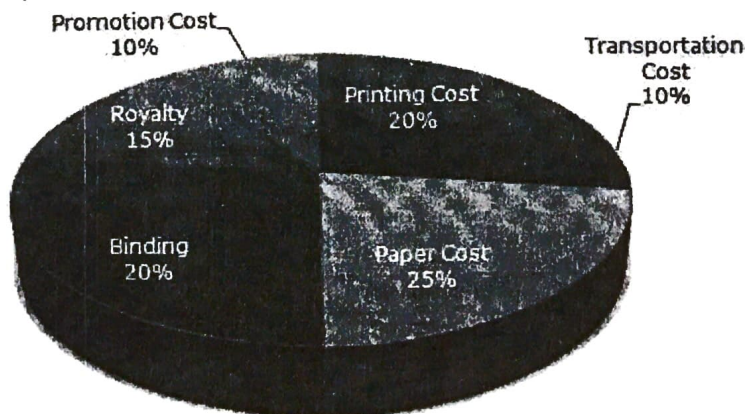
IV. A. Fill in the blanks with appropriate idioms and phrases from the ones given in brackets: (6x1=6)

(out of the frying pan into fire, be between the devil and the deep blue sea, make a beeline, to bank on, to feel blue, call the shots, bring home the bacon, cut from the same cloth, down and out, black sheep)

1. Dinesh and his sister are _____. They both speak the truth all the time.
2. Sharat _____ for the buffet as soon as he entered the restaurant.
3. Anamika has been _____ ever since her ancestral property was taken over by the bank.
4. Chandana has been working hard all these years, _____ for her family.
5. He would later think about how he had jumped _____ when he ran away from home.
6. Tharun is _____ these days because he has lost his job.

B. Analyse the following graph. Write a report in about 150 words: (1x6=6)

The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book.



C. Write a dialogue in about 150 words in 5 turns each. (1x6=6)

Write a dialogue between a Teacher and the Principal discussing the issue of ragging.

D. Develop a story based on the hints given below in about 150 words. (1x6=6)

Robert Bruce / defeated / finds himself in a hopeless situation / tempted to give up the struggle / chance up a spider / observes how the spider keeps trying to reach its web / nine times it fails to climb up the thread / succeeds in the tenth attempt / Robert Bruce gets inspired / he tries again and succeeds / reclaims his kingdom.

E. Read the following passage and answer the questions. Answer in a word/phrase/sentence for 1-mark questions and in 2 or 3 sentences for 2 marks questions.

Philosophy of Education is a label applied to the study of the purpose, process, nature and ideals of education. It can be considered a branch of both philosophy and education. Education can be defined as the teaching and learning of specific skills, and the imparting of knowledge, judgment and wisdom, and is something broader than the societal institution of education we often speak of.

Many educationalists consider it a weak and woolly field, too far removed from the practical applications of the real world to be useful. But philosophers dating back to Plato and the Ancient Greeks have given the area much thought and emphasis, and there is little doubt that their work has helped shape the practice of education over the millennia.

Plato is the earliest important educational thinker, and education is an essential element in "The Republic" (his most important work on philosophy and political theory, written around 360 B.C.). In it, he advocates some rather extreme methods: removing children from their mother's care and raising them as wards of the state, and differentiating children suitable to the various castes, the highest receiving the most education, so that they could act as guardians of the city and care for the less able. He believed that education should be holistic, including facts, skills, physical discipline, music and art. Plato believed that talent and intelligence is not distributed genetically and thus is to be found in children born to all classes, although his proposed system of selective public education for an educated minority of the population does not really follow a democratic model.

Aristotle considered human nature, habit and reason to be equally important forces to be cultivated in education, the ultimate aim of which should be to produce good and virtuous citizens. He proposed that teachers lead their students systematically, and that repetition be used as a key tool to develop good habits, unlike Socrates emphasis on questioning his listeners to bring out their own ideas. He emphasized the balancing of the theoretical and practical aspects of subjects taught, among which he explicitly mentions reading, writing, mathematics, music, physical education, literature, history, and a wide range of sciences, as well as play, which he also considered important.

During the Medieval period, the idea of Perennialism was first formulated by St. Thomas Aquinas in his work "De Magistro". Perennialism holds that one should teach those things deemed to be of everlasting importance to all people everywhere, namely principles and reasoning, not just facts (which are apt to change over time), and that one should teach first about people, not machines or techniques. It was originally religious in nature, and it was only much later that a theory of secular perennialism developed.

During the Renaissance, the French skeptic Michel de Montaigne (1533 - 1592) was one of the first to critically look at education. Unusually for his time, Montaigne was willing to question the conventional wisdom of the period, calling into question the whole edifice of the educational system, and the implicit assumption that university-educated philosophers were necessarily wiser than uneducated farm workers, for example.

- i. Why do educationists consider philosophy a 'weak and woolly' field?
 - a) It is not practically applicable
 - b) Its theoretical concepts are easily understood
 - c) It is irrelevant for education
 - d) None of the above

(1)

- ii. What do you understand by the term 'Perennialism', in the context of the given comprehension passage?
 - a. It refers to something which is of ceaseless importance
 - b. It refers to something which is quite unnecessary
 - c. It refers to something which is abstract and theoretical
 - d. It refers to something which existed in the past and no longer exists now

(1)

- iii. Were Plato's beliefs about education is democratic?
 - a) He believed that only the rich have the right to acquire education
 - b) Yes
 - c) He believed that only a select few are meant to attend schools
 - d) He believed that all pupils are not talented

(1)

- iv. Why did Aquinas propose a model of education which did not lay much emphasis on facts?
 - a) Facts are not important
 - b) Facts do not lead to holistic education
 - c) Facts change with the changing times
 - d) Facts are frozen in time

(1)

- v. What is the difference between the approaches of Socrates and Aristotle?

(2)

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St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.B.A./B.Sc./B.C.A. - Semester I Degree Examination

February 2021

HINDI

Time: 3 hrs.

Max Marks: 100

(6X1=06)

I अ) एक वाक्य में उत्तर लिखिए :

१. वर्ण किसे कहते हैं ?
२. स्वर के कितने भेद हैं ?
३. मात्रा किसे कहते हैं ?
४. 'परीक्षा' शब्द का संधि विच्छेद कीजिए।
५. द्रव्यवाचक संज्ञा के उदाहरण दीजिए।
६. कारक की परिभाषा लिखिए।

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए :

(2X7=14)

१. संधि की परिभाषा लिख कर मुख्य भेदों को सोदाहरण समझाइए।
२. संज्ञा किसे कहते हैं ? भेदों को उदाहरण सहित समझाइए।
३. कारक किसे कहते हैं ? भेदों को सोदाहरण समझाइए।

II अ) एक वाक्य में उत्तर लिखिए :

(6X1=06)

१. पुरुषवाचक सर्वनाम के कितने भेद हैं ?
२. विशेषण की परिभाषा लिखिए।
३. कर्म के अनुसार क्रिया के कितने भेद हैं ?
४. सकर्मक क्रिया की परिभाषा लिखिए।
५. बनावट के विचार से क्रिया के मुख्य कितने भेद हैं ?
६. 'कर्मवाच्य' किसे कहते हैं ?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए :

(2X7=14)

१. सर्वनाम की परिभाषा लिख कर उनके भेदों को सोदाहरण समझाइए।
२. क्रिया की परिभाषा लिख कर धातु को सोदाहरण समझाइए।
३. प्रयोग के कारण क्रिया के भेदों को उदाहरण सहित समझाइए।

III अ) एक वाक्य में उत्तर लिखिए :

(6X1=06)

१. अलाव के सामने धीसू माधव क्या कर रहे थे ?
२. कफन के लिए कुल कितने रुपए इकट्ठे हुए ?
३. 'पुरस्कार' कहानी के कहानीकार कौन हैं ?
४. मगध के राजकुमार का नाम क्या था ?
५. पठानों ने किस रंग का पोशाक पहना था ?
६. जुबैदा और संजय ने साथ में कौन सी पढ़ाई की थी ?

आ) किसी एक कहानीकार का परिचय लिखिए :

(1X6=06)

१. प्रेमचन्द।
२. जयशंकर प्रसाद।

Contd...2

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए : (1X6=06)

१. "बंद करो जी दरवाजा, बिना पूछे चढ़ आते हैं, अपने बाप का घर समझ रखा है। मत घुसने दो जी, क्या करते हो, धकेल दो पीछे..."
२. "बस करो और कुछ नहीं कहना। घर जाओ और विवाह की तैयारी करो।"

ई) किसी एक प्रश्न का उत्तर लिखिए : (1X12=12)

१. "कफन" कहानी में वर्णित लेखक के विचारों को अपने शब्दों में लिखिए।
२. "वेलेंटाइन डे" कहानी का सार लिख कर विशेषताओं पर प्रकाश डालिए।

IV अ) एक वाक्य में उत्तर लिखिए : (6X1=06)

१. प्रायश्चित्त कहानी में पंडित का नाम क्या है ?
२. बिल्ली का नाम क्या था ?
३. भोलाराम की उम्र कितनी थी ?
४. बालक का गाँव नैनीताल से कितनी दूरी पर था ?
५. 'मक्रील' कहानी के कहानीकार कौन हैं ?
६. मक्रील का अतिथि (कवि) किस होटल में ठहरा था ?

आ) किसी एक कहानीकार का परिचय लिखिए : (1X6=06)

१. भगवती चरण वर्मा।
२. हरिशंकर परसाई।

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए : (1X6=06)

१. "अरे यार ! बजट बिगड जाएगा। हृदय में जितनी दया है, पास में उतने पैसे तो नहीं है।"
२. "तो आओ। उसने कहा, यहीं साथ दो मक्रील के गर्भ में।"

ई) किसी एक प्रश्न का उत्तर लिखिए : (1X12=12)

१. "प्रायश्चित्त कहानी में लोगों के अंधविश्वास पर तमाचा मारा गया है।" स्पष्ट कीजिए।
२. "मक्रील" कहानी का सार लिख कर विशेषताओं पर प्रकाश डालिए।

(2020 Batch Onwards)

G 537.1/G 637.1

Reg. No:

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ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)

ಮಂಗಳೂರು

ಬಿ.ಎಸ್ಸಿ./ಬಿ.ಸಿ.ಎ - ಮೊದಲ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ

February 2021

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ - 1

ಸಮಯ: 3.00 ಘಂಟೆ

ಗರಿಷ್ಠ ಅಂಕ: 100

(10x3=30)

I ಈ ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ

- 1) ಅಲ್ಲಮನನ್ನು ಒಲಿದ ಮಾಯೆಯ ವಿಕ್ಷಿಪ್ತ ಮನಸ್ಕತಿಯನ್ನು ವಿವರಿಸಿ
- 2) ಅಮುಗೆ ರಾಯಮ್ಮನ ವಚನಗಳ ಆಶಯವನ್ನು ಪಠ್ಯಭಾಗದ ವಚನಗಳ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ
- 3) ಗುಣಶೇಖರನು ಮಣಿಮಂಜರಿ ಹೇಳಿದ ಒಗಟನ್ನು ಬಿಡಿಸಿ ವಿವಾಹವಾದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ
- 4) ಸಂತೆಯಲ್ಲಿ ನಡೆಯುವ ಚೌಕಾಸಿ ವ್ಯಾಪಾರದ ಕುರಿತು ಬರೆಯಿರಿ
- 5) ಕನ್ನಡದಲ್ಲಿ ಬಳಕೆಯಾಗುವ ಲೇಖನಚಿಹ್ನೆಗಳು ಯಾವುವು? ವಿವರಿಸಿ
- 6) ಭಾಷೆ ಪಡೆದುಕೊಳ್ಳುವ ಆರ್ಥ ಸಾಧ್ಯತೆಗಳನ್ನು ವಿವರಿಸಿ

II ಈ ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ

(6x3=18)

- 7) ಹಣದ ಮಹಿಮೆಯನ್ನು 'ಕುರುಡು ಕಾಂಚಾಣ' ಕವನದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ
- 8) ತುಳುನಾಡಿನ ಸೊಗಸು ಎಂತಹುದು ಎಂಬುದನ್ನು ವಿವರಿಸಿ
- 9) ಕೆಲಸದವಳ ನಿಷ್ಠೆ ಎಂತಹುದು? ಕೆಲಸದ ಜೊತೆಗೆ ಏನೇನು ಮಾಡುತ್ತಿದ್ದಳು? ವಿವರಿಸಿ
- 10) ಆಣೆಕಟ್ಟಿಯಲ್ಲಿ ಮರೆಯಾದ ಬದುಕಿನ ಘಟನೆಗಳನ್ನು ಸುಮಂಗಲಾರವರ ಕಥೆಯ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ
- 11) ಕನ್ನಡದ ವಾಕ್ಯಗಳಲ್ಲಿ ಬಳಕೆಯಾಗುವ ವಿರಾಮ ಚಿಹ್ನೆಗಳು ಯಾವುವು? ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ
- 12) ಭಾಷೆಯನ್ನು ರೂಪಗೊಳಿಸಬೇಕಾದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ

III ಓಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ತಿಳಿಸಿ ಸ್ವಾರಸ್ಯ ಬರೆಯಿರಿ

(6x1=6)

- 13) ಬಯಲ ಚಪ್ಪರಿಪಂತೆ ಚುಂಬನ
ಬಯಲನಪ್ಪುವವೊಲು ಸಮಷ್ಟಿಕೆ
ಬಯಲನೀಕ್ಷಿಸುವಂತೆ ನೋಟದ ಕೂಟದನುಭವಣೆ
ಬಯಲುಗೊಂಡವು ಭಾವಿಸಲು ನಿ
ವರ್ಯಲಿನಲ್ಲಮಗೋತ ಕಾರಣ
ಬಯಲ ಬಿಹ್ವದ ಬಲೆಗೆ ಬಿದ್ದಳು ಮಾಯೆ ಸುರತದಲಿ
- 14) ಗುಡಿಯೊಳಗೆ ಗಣಣ, ಮಾ-
ಹಡಿಯೊಳಗೆ ತನನ, ಅಂ
ಗಡಿಯೊಳಗೆ ರಘುಣರಘುಣ ನುಡಿಗೊಡುತಿತ್ತೋ
ಹ್ಯಾಂಗಾರೆ ಕುಣಿಕುಣಿದು
ಮಂಗಾಟ ನಡೆದಾಗ
ಅಂಗಾತ ಬಿತ್ತೋ, ಹೆಗಲಲಿ ಎತ್ತೋ.

IV ಎರಡು ಸಾಲುಗಳಿಗೆ ಸಂದರ್ಭ, ಅರ್ಥ ವಿಶೇಷತೆಗಳನ್ನು ವಿವರಿಸಿ

(5x2=10)

- 15) ದೊಡ್ಡ ಮನೆತನ ನಾಡುವಾಡೆಯ ಅಳಿಯಕಟ್ಟಿನಲಿ
- 16) ಗುರಿಯಿರದ ಅರಿವಿರದ ಚಲನೆಯಲ್ಲಿ, ಕ್ಷೇಮವನು ಹುಡುಕಿತು
- 17) ಹುಟ್ಟಿನೊಂದಿಗೆ ಬೆಸೆದುಕೊಂಡಿದೆ ಕವಚ ಮುಟ್ಟಬಾರದ ಕವಚ
- 18) ಹಣ್ಣನ್ನು ಮಾಗಿಸುವುದು ಮರವಲ್ಲ ಕಾಲ

V a) ಎರಡರ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

(6x2=12)

- 19) ಅಂಬಿಗರ ಚೌಡಯ್ಯ
- 20) ಬೆನಿನ್ ರಸ್ತೆ
- 21) ಬಲುಮಂಕಾಳಿ ಬಿಡಿಸಿದ ಒಗಟುಗಳು ಯಾವುವು?
- 22) ಮಿಸಸ್ ಬ್ರೂಸ್ಟರ್‌ಗಳ ಅತಿಯಾದ ಸಿಟ್ಟಿಗೆ ಕಾರಣಗಳೆನು?

Contd...2

G 537.1/G 637.1

- b) ಎರಡರ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ
23) ದ.ರಾ ಬೇಂದ್ರೆ
24) ತುಳು ಭಾಷೆ
25) ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
26) ಅಣ್ಣಪ್ಪನ ಪಾತ್ರ ಪರಿಚಯ

(1x12=12)

VI ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ

- 27) 'ಪ್ರಭುಲಿಂಗ ಲೀಲೆ' ಕೃತಿಯನ್ನು ರಚಿಸಿದ ಕವಿ ಯಾರು?
28) 'ಶಬ್ದ ಗಾರುಡಿಗ' ಎಂದು ಖ್ಯಾತಿ ಪಡೆದ ಕವಿ ಯಾರು?
29) ತುಳು ದ್ರಾವಿಡ ಭಾಷೆಗಳಲ್ಲೇ ಪ್ರೌಢಭಾಷೆ ಎಂಬುದಾಗಿ ಹೇಳಿದ ಭಾಷಾವಿಜ್ಞಾನಿ ಯಾರು?
30) ಅಮುಗೆ ರಾಯಮ್ಮನ ವಚನಗಳ ಅಂಕಿತವೇನು?
31) ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿಯವರ ಒಂದು ಕೃತಿಯನ್ನು ಹೆಸರಿಸಿ
32) ಡಾ.ಪಿ.ಕೆ. ರಾಜಶೇಖರ ರವರು ಕಟ್ಟಿದ ಜನಪದ ಗಾಯನ ವೃಂದದ ಹೆಸರೇನು?
33) 'ಮಾಲ್ಗುಡಿ ಡೇಸ್' ಕೃತಿಯನ್ನು ಬರೆದ ಪ್ರಸಿದ್ಧ ಲೇಖಕರು ಯಾರು?
34) ಎಸ್. ಅನಂತನಾರಾಯಣರವರ ಸಂಶೋಧನಾ ಕೃತಿ ಯಾವುದು?
35) ಪೂರ್ಣವಿರಾಮ ಚಿಹ್ನೆ ಎಂದರೇನು?
36) ಭಾವಸೂಚಕ ಚಿಹ್ನೆಯನ್ನು ಯಾವಾಗ ಬಳಸುತ್ತಾರೆ?
37) ಉದ್ಧರಣ ಚಿಹ್ನೆಯನ್ನು ಒಂದು ಉದಾಹರಣೆಯೊಂದಿಗೆ ಬರೆಯಿರಿ
38) ಭಾಷೆಯಲ್ಲಿ ಯಾವುದು ಸಾಪೇಕ್ಷವಾಗಿದೆ?

(2016 batch onwards)

G 538.1

Reg. No:

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St. Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February 2021
SANSKRIT

Time: 3 Hours

Max. Marks: 100

- 1 **इलोकत्रयं कर्णाटकभाषया आङ्ग्लभाषया वा अनुवादं कृत्वा विवृणुत ।** **3 X 8 = 24**
- 1.1 श्वशुरगृहनिवासः स्वर्गतुल्यो नराणां यदि वसति दिनानि त्रीणि वा पञ्च सप्त ।
मधुदधिघृतधारा क्षीरसारप्रवाहः तदुपरि दिनमेकं पादरक्षाप्रयोगः ॥
- 1.2 काले माषं सस्ये मासं वदति शकासं यश्च सकाशम् ।
उष्ट्रे लुम्पति षं वा रं वा तस्मै दत्ता विकटनितम्बा ॥
- 1.3 हन्तुं देवकितनयां वसुदेवेनोद्यतायुधः कंसः ।
मधुरोक्तिभिरनुनीतः साम्ना मूर्खं वशं कुर्यात् ॥
- 1.4 सहधर्मिणीं वनान्ताद्दशरथसूनोर्जहार दशवक्त्रः ।
बन्धनमाप समुद्रो न दुर्जनस्यान्तिके निवसेत् ॥
- 1.5 राज्ञां गृहे देवगृहे च गोष्ठे महानसे पर्णगृहे मठे वा ।
नृणां निवासार्हसमस्तदेशे व्याप्तिस्तवास्ते त्वमतोऽसि पूज्या ॥
- 2 **पञ्चानां सन्दर्भसहितविवरणं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।** **5 X 4 = 20**
- 2.1 भवत्याः साह्यात् गृहान्तः परिशोधयन्ति ।
2.2 स्वाध्यायप्रवचनाभ्यां न प्रमदितव्यम् ।
2.3 ब्राह्मे मुहूर्ते उन्तिष्ठेत्स्वस्थो रक्षार्थमायुषः ।
2.4 सर्वं मां शक्रोपभुक्तं उपस्थितम्, ऋते शचीम् ।
2.5 भम्भावल्यां अन्तकस्सन्निविष्टः ।
2.6 जनापवादाद्भजेद्भीतिम् ।
2.7 सर्पः भव, यावत् भूमिः गिरयः च तिष्ठेयुः तावत् ।
- 3 **द्वयोः संस्कृतभाषया टिप्पणीं लिखत ।** **2 X 6 = 12**
- 3.1 सौभरिः ।
3.2 उपनिषत् ।
3.3 श्वशुरगृहनिवासः ।
3.4 पुराणानि ।
- 4 **चतुर्णां कर्णाटकभाषया आङ्ग्लभाषया वा प्रबन्धरूपेण उत्तरयत ।** **4 X 8 = 32**
- 4.1 सौभरेः संसारासक्तिः वैराग्यं च विवृणुत ।
4.2 नहुषोपाख्यानमधिकृत्य लिखत ।
4.3 दिनचर्या पाठस्य सारं लिखत ।
4.4 सन्मार्जन्याः गुणान् यथा पाठं विवृणुत ।
4.5 ऋग्वेदे भगवद्दर्शनम् पाठोक्तरीत्या विवृणुत ।
4.6 आचार्यानुशासनं पाठे प्रतिपादितानि जीवनमौल्यानि विषये प्रबन्धं लिखत ।

Contd...2

5 रिक्तस्थानानि पूरयत । (द्वादशनाम्)

- 5.1 तदनन्तरं _____ समाचरेत् । (अभ्यङ्गम्, अभ्यङ्गानि, अभ्यङ्गात्)
- 5.2 _____ वेदोपनिषत् । (एतानि, एषा, एते)
- 5.3 भूतै न _____ । (प्रमदितव्यानि, प्रमदितव्यम्, प्रमदितव्याः)
- 5.4 प्रष्टव्याः _____ वृद्धाः । (सत्पथम्, सत्पथस्य, सत्पथः)
- 5.5 _____ देवराज्यं पर्यत्यजत् । (इन्द्रैः, इन्द्रस्य, इन्द्रः)
- 5.6 _____ अतोऽसि पूज्या । (त्वम्, तेन, तस्य)
- 5.7 जगदीश्वरः _____ पूरयितुं समर्थः । (मनोरथान्, मनोरथः, मनोरथात्)
- 5.8 सत्यं वद धर्मं _____ । (चर, चरेत्, चरितम्)
- 5.9 मम _____ उपगतम् । (दुःखस्य, दुःखम्, दुःखेण)
- 5.10 आचार्यः अन्तेवासिनम् _____ । (अनुशास्ति, अनुशासितव्यम्, अनुशासितेन)
- 5.11 ऐन्द्रं पदं अध्यास्यते _____ । (तव, मया, वयम्)
- 5.12 यां चिन्तयामि सततं मयि _____ विरक्ता । (सा, अहम्, तत्)
- 5.13 जगत् अनीश्वरं _____ । (बभूवम्, बभूवतुः, बभूव)
- 5.14 भवत्याः साहाय्यं गृह्णन्तः _____ । (परिशोधयन्ति, परिशोधनेन, परिशोधनस्य)
- 5.15 भेतव्यं दुर्जयात् _____ । (कामेण, कामात्, कामानि)

(2018 Batch onwards)

G 139.1

Reg. No:

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St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc./B.Com. Semester I – Degree Examination
January/February 2021

KONKANI

Time: 3 Hours

Max. Marks: 100

UNIT I

1. ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ: (1x5=5)
- ಅ) ಮಾತೆ ಕೊಂಕಣಿ ಭಾಶೆಚೆಂ ರುದಾನ್ ಕವನಾಚೊ ಕವಿ ಕೋಣ್?
- ಆ) ಗಾಂವ್ ಕೆದಾಳಾ ಜಾಗೊ ಜಾತಾ?
- ಇ) ಕೆಲ್ಯೆ ಕಿತೆಂ ಚರ್ಚಾ ಕರ್ತಾ?
- ಈ) ಆಮಿ ಕಿತೆಂ ಉಲಯ್ತಾವ್?
- ಉ) ಫಿರ್ಗಜೆಚೊ ಪಾದ್ರಿ ಕಿತ್ಯಾಕ್ ಮೀಸ್ ರದ್ಡ್ ಕರಾಯ್ತಾ?
2. ಖಿಂಚಾಯ್ ದೋನ್ ಸವಾಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ: (2x5=10)
- ಅ) ಕುರ್ಲ್ಯಾಚೊ ಆವ್ತಾರ್ ಸ್ವಾಮಿ ಸುಪ್ರಿಯಾ ಕಶೆಂ ವರ್ಣಿತಾ?
- ಆ) ಚುನಾವ್ ಪ್ರಕ್ರಿಯಾ ನಂತರ್ ಗಾಂವ್ ಕಸೊ ನಿದೋನ್ ಪಡ್ತಾ?
- ಇ) ಕೆಲ್ಯೆ ಆನಿ ಸಂಸರಾಚ್ಯೊ ರಾಟಾವಳಿ (ಪಟ್ಟಾಂಗ) ಕಶ್ಯೊ ಸರಿ ಜಾತಾತ್?
3. ಖಿಂಚಾಯ್ ದೋನ್ ಕವನಾಂಚೆ ಸ್ವಾರಸ್ಯ ಬರವ್ನ್ ವಿವರಿಯಾ: (5x2=10)
- ಅ) ಕಿತ್ಲೊ ಕಾಳ್ ಥಾವ್ನ್ ರಟ್ತಾಂ ಬಸೊನ್
- ಇತ್ಲೆ ಮ್ಹಜೆ ಭುರ್ಗೆ ಆಸೊನ್
- ನಾ ಮ್ಹಣ್ ಉರ್ಟೆನ್ ಮ್ಹಜೆ ಪಾಸುನ್
- ವಾವುರ್ತಾಲೊ ಕೋಣ್ ಏಕ್.
- ಆ) ವಿಲ್ಲಿ, ಮಿಲ್ಲಿಕ್ ಕಾಜಾರ್ ಆಸಾ
- ತಿಸ್ತಿ ಚೀಟ್ ಆಜ್ ಜಾತಾ
- ಸಾಂ ಪೆದ್ರು ಸಾಂ ಪಾವ್ಲಾಚೆಂ ಘೆಸ್ತ್
- ಸುಕ್ರಾ ದೀಸ್ ಯೆತಾ.
- ಇ) ದೆಕುನ್ ಭಾವಾ, ಸದಾಂ ಹಿ ಚತ್ರಾಯ್ ಆಸೊಂ
- ಭುರ್ಗಾಂಕ್ ಖಿಂಯ್ಚಿಯ್ ಬರಿ ಬೂದ್ ಸಾಂಗ್ಚೆ ಆದಿಂ
- ತುಕಾಚ್ ಪಳೆ, ಆಸಾಗಿ ತಿ ಸಾಮರ್ಥಿ

Contd...2

G 139.1

4. ಖಿಂಚಾಯ್ ಏಕಾ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ (ಕವಿ ಪರಿಚಯ್ ದಿಯಾ): (5x1=5)

- ಅ) ಸ್ವಾಮಿ ಸುಪ್ರಿಯಾ
ಆ) ಉವಿಸ್ ಪಾವ್ಲ್ ಬೊತೆಲ್ಲೊ

UNIT II

1. ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ

(6x1=6)

- ಅ) ಬಂಗ್ಲಾಂತ್ ಕಿತೆಂ ಘಡ್ತಾ?
ಆ) ಗೊರ್ಕಾಚೆಂ ನಾಂವ್ ಕಿತೆಂ?
ಇ) “ಸಿಜೈಸ್” ಹಾಚೆಂ ಪೂರ್ಣ್ ನಾಂವ್ ಕಿತೆಂ?
ಈ) ಎಸ್ತೆಲಾಕ್ ಭೆಂಕ್ಡಾಂವ್ಕ್ ಶೀಲಾ ಕಿತೆಂ ಉಪಾಯ್ ಸಾಂಗ್ತಾ?
ಉ) ಕೊಣೆಂ ಜೊನ್ನಾಚೆ ಕಾಫೈ ತೋಟ್ ಆಪ್ಣಾಚೆಂ ಕೆಲೆಂ?
ಊ) ಆಬ್ ಧುವೆಕ್ ಕಿತ್ಯಾಕ್ ಕಾಂತಾಳಾಲ್ಲೊ?

2. ಖಿಂಚಾಯ್ ದೋನ್ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:

(5x2=10)

- ಅ) “ಪಾರಿ ಪಾಟ್ಲ್ಯಾನ್ ಧಾವೊನ್ ಘರಾ ಪಾಟ್ಲ್ಯಾನ್ ಯೆ”
ಆ) “ಜಾಯ್ತಾ ಧನ್ಯಾ ತುಜಿ ಖುಶಿಚ್ ಮ್ಹಜಿ ಮ್ಹಜಿಚ್”
ಇ) “ಹಾಂವ್ ತುಜೊ ನಾತು ನ್ಹಂಯ್‌ಗೀ ಆಬಾ?”

3. ಖಿಂಚಾಯ್ ಏಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ:

(5x1=5)

- ಅ) ಪೆರಾಂ ಕಾಡುಂವ್ಕ್ ಗೆಲ್ಲಾ ಜುಜೆ ಥಂಯ್ ಘಡ್‌ಲ್ಲೆಂ ಅನಾಹುತ್ ಕಿತೆಂ?
ಆ) ಬಂಗ್ಲಾಂತ್ ಕಿತೆಂ ಘಡ್ತಾ? ಹಾಕಾ ಕಾರಣ್ ಕಿತೆಂ?

4. ಖಿಂಚಾಯ್ ಏಕಾಚೆಂ ಪಾತ್ರ್ ಚಿತ್ರಣ್ ಕರಾ:

(1x4=4)

- ಅ) ಉಮ್ಮ
ಆ) ಪೆರಾಂ ರೂಕ್

UNIT III

1. ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ :

(1x5=5)

- ಅ) ಮ್ಹಾತಾರ್ಯಾಚಿ ಪೂತ್-ಸುನ್ ಖಿಂಯ್ಸರ್ ವಸ್ತಿ ಕರ್ತಾಲಿಂ?
ಆ) ವೆರೊನಿಕಾಕ್ ಕೋಣ್ ಕುಮೊಕ್ ಕರ್ತಾ?
ಇ) ಲಿಯಾಬಾಚೊ ಈಷ್ಟ್ ರಿಟಾಯರ್ಡ್ ಮೆಸ್ತ್ರಿ ಕೋಣ್?
ಈ) ರಿಟಾಯರ್ಡ್ ಮ್ಹಾತಾರ್ಯಾಚಿ ಆಶಾ ಕಿತೆಂ?
ಉ) ವಿಕ್ಟರ್ ಕಿತೆಂ ಫಿಯರ್ಡ್ ಫೆವ್ನ್ ಆಯಿಲ್ಲೊ?

2. ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ :

(5x2=10)

ಇ) “ತೆಂ ಗಲ್ ಽ ನ್ವಂಯ್, ತೆಂ ಕಾಜಾರಿ ಬಾಯ್ಲ”

ಈ) “ಕಾಜಾರಿ ಜಿವಿತಾಂತ್ ತುಫಾನ್ ಉಟಾಂ”.

3. ಖಿಂಚಾಯ್ ಎಕ್ಲಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ:

(10x1=10)

ಅ) ಫಿಲು-ಗೈಗರಿ ನಾಟಕಾಂತ್ ಕಶೆಂ ಪ್ರಮುಖ್ ಪಾತ್ರ ಘೆತಾತ್?

ಆ) ವೆರೋನಿಕಾಬಾಯ್ ಮೊನಿಕಾ ಜಾಲ್ಲಿ ವೇಳ್ ಘಡಿ ಕಳಯಾ.

UNIT IV

1. ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ:

(1x5=5)

ಅ) ಸರ್ವನಾಮ್ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

ಆ) ಕೊಂಕ್ಣೆಂತ್ಲೆ ಲಿಂಗ್ ಬರಯಾ.

ಇ) ಸ್ವರಾಜಿ ವ್ಯಾಖ್ಯೆ ದಿಯಾ.

ಈ) ನಾಮಪದಾಂತ್ ಕಿತ್ಲೆ ವರ್ಗ್ ಆಸಾತ್? ಆನಿ ಖಿಂಚೆಂ ತೆಂ?

ಉ) ಕೊಂಕ್ಣಿ ವರ್ಣಮಾಲೆಂತ್ ಕಿತ್ಲೆಂ ವರ್ಣಾಂ ಆಸಾತ್?

2. ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:

(5x3=15)

ಅ) ಕೊಂಕ್ಣೆಚಿ ವರ್ಣಮಾಲಾ ಬರಯಾ.

ಆ) ಕೊಂಕ್ಣೆಚಿ ಲಿಂಗ್ ಉದಾಹರಣಾ ಸಂಗಿಂ ಬರಯಾ.

ಇ) ಸರ್ವನಾಮಾಚಿ ಪ್ರಕಾರ ಬರವ್ಪ್, ಖಿಂಚೊಯ್ ಏಕ್ ಪ್ರಕಾರ್ ವಿವರಿಯಾ.

(2019 Batch onwards)

G 140.1

Reg. No.

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St Aloysius College (Autonomous)

Mangaluru

B.A. /B.Sc./B.Com./B.B.A./B.C.A. - Semester I -Degree Examination

February 2021

ADDITIONAL ENGLISH

CROSS CULTURAL TEXTS - I

Time: 3 hrs.

Max Marks: 100

SECTION A : Prose

I. Answer the following in a word/phrase or a sentence. (1x5=5)

1. The narrator's mother in "A Waterfall of Horses" worked for _____.
2. In "The Adventure of the Speckled Band" Julia Stoner is the wife of Dr Roylatt. (True or False)
3. The lady in "The Human Phonograph" moves from Qinghai to Beijing to Factory 221 to meet her ex-husband who has been away for seven years. (True/False)
4. The short story collection by Shashi Tharoor called _____ was banned during the Emergency.
5. _____ was Bah Lumen's daughter who was having an affair with Sahib Sam.

II. Answer any FOUR following questions in about 150-200 words: (4x5=20)

1. Holmes is known for his uncanny observation skills. Elucidate with reference to "The Adventures of The Speckled Band."
2. Write a short note on the narrator in "A Waterfall of Horses"
3. "Once again she is in the terrain of Qinghai...she yearns for impossible Beijing..." Discuss with reference to "The Human Phonograph."
4. "There is no immediate threat of a suspension of our basic freedom, as there was then." Comment with reference to India: From Millennium and Beyond.
5. Elucidate on the importance of Ka ktien in Khasi Culture with reference to 'A Waterfall of Horses.'

III. Answer any ONE of the following in about 300-350 words each: (1x10=10)

1. "I have brought you a gift, she says." How is the gift relevant to the dying man. Justify the statement in reference to the short story 'The Human Phonograph'
2. Write a note on the Bilati men in the short story "A Waterfall of Horses."
3. "An India that denies itself to some Indians could end up being denied to all Indians" Comment with reference to India: From Midnight to the millennium and Beyond.

SECTION B: Novel

IV. Answer the following in a word/phrase or a sentence (1x5=5)

1. What trouble does Hep end up with in the novel?
2. Who is the protagonist in the novel "The Girl from the Nongrim Hills"?
3. How is Kitdor related to the protagonist of the novel?
4. Who is the titular character (the girl) in the novel ?
5. Name the music band in the novel " The girl from Nongrim Hills".

Contd...2

V. Answer any ONE of the following in about 300-350 words each:

1. How is Shillong portrayed in "The Girl from Nongrim Hills"?
2. How does the setting and atmosphere help set the tone of the novel?
3. Elaborate on the various themes in the novel "The Girl from Nongrim Hills"?

SECTION C : Poetry

VI. Answer any TWO of the following in about 100-150 words each: (2x5=10)

1. Charles Bukowski's headstone is engraved with the simple saying, 'Don't Try.' Comment with reference to the poem "So You Want to be a Writer."
2. What according to the poet is the aftermath of war, justify with reference to the poem "The Orphan Girl"
3. Discuss the theme of the poem "Postcard from Kashmir."
4. Write a note on mythological background to the poem "Ms Militancy" by Meena Kandasamy.
5. Give a brief description of the biblical allusions used in "All Along the Watchtower"

VII. Annotate any TWO of the following in about 150-200 words each: (2x5=10)

1. don't be like so many writers,
don't be like so many thousands of
people who call themselves writers,
don't be dull and boring and
pretentious, don't be consumed with self-love.
the libraries of the world have
yawned themselves to sleep
over your kind.
don't add to that.
don't do it.
2. Her sire had joined the wake of war;-
The battle-shock, the shout, and scar
He knew and gained a glorious grave
Such is the guerdon of the brave!
3. Watching that breast sprout back from its roots,
the lone woman learnt to outgrow her loss.
When the scars no longer showed and
the faraway sea could be smelt between her legs,
she dissolved in a mist of aftersmoke.
4. And my memory will be a little
out of focus, it in
a giant negative, black
and white, still undeveloped.

SECTION D : Grammar

VIII. Report writing: (1x5=5)

1. Recently your college held a Seminar on Conservation of Water as a part of World Water Day celebrations. As the Student council Head of your college, write a report in 200 words for a local daily. Sign as Roy

IX. Idioms and Phrases:

Choose the appropriate idiom/phrase from the list below to fill in the blanks. (1x5=5)

(barking up the wrong tree ,Upset someone’s applectart, Leaps and bounds, making a fresh start , Separate the wheat from the chaff , Steer clear of, To hold one’s tongue)

1. The prices are going up by _____
2. We must always _____ people who indulge in anti-social activities.
3. After decades of neglect, government schools are finally _____with much-needed improvements to facilities and teaching methods.
4. The sales team blamed the engineers for the organization’s failure to bag the mega deal, but they were _____.
5. The new testing procedure to evaluate employees will _____.

X. Restaurant Review: (1x10=10)

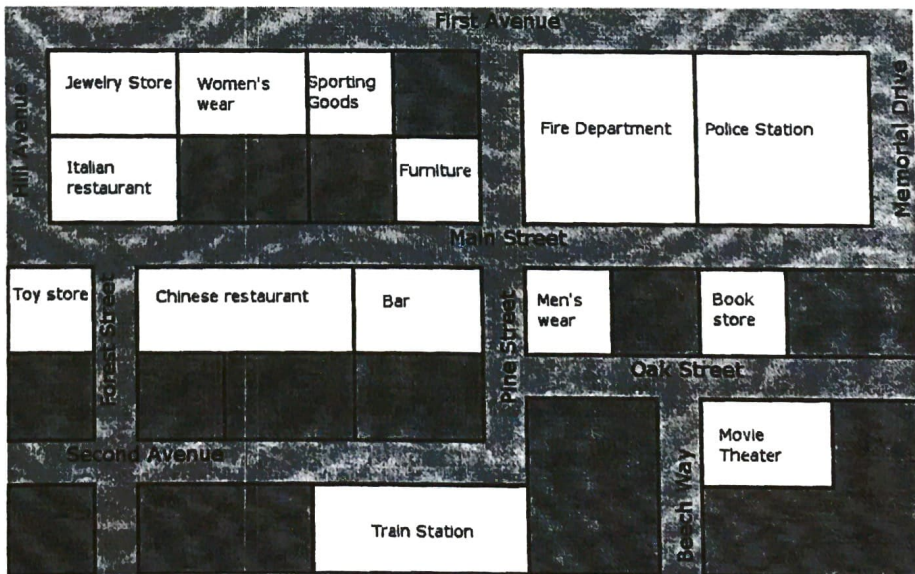
1. Write a review of your favourite restaurant to be published in the college newsletter.

XI. Advertisement : (1x5=5)

1. 'The Code Studio' is looking for a Web Designer with a 3 year experience. Draft an advertisement for publication in the local newspaper asking the deserving candidate to appear for a walk-in-interview on 12th February 2021 from 9 AM – 2 PM at The Code Studio Office in Lakshmipuram Road, Chennai. Contact Number – 9952854634

XII. Giving Directions: (1x5=5)

Look at the map of a part of a city given below. Write down directions for a person who wants to go from Beech Way street to the Hill Avenue. Note that on the way the person wants to stop for a few minutes at the Book store and wants to have lunch at the Chinese restaurant.



(2020 batch onwards)

G 150.1

Reg. No.

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St Aloysius College (Autonomous)

Mangaluru

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

January/February 2021

FRENCH

Time: 3 hrs.

Max Marks: 100

I. Répondez aux questions

(1x10=10)

1. Dans son roman célèbre de Victor Hugo - 'The Hunchback of Notre Dame', comment s'appelle le personnage principal?
2. Donnez un autre nom donné à la ville de Paris.
3. La tour Eiffel a été construite par qui?
4. Le château de Versailles a été construit sous le règne de quel roi?
5. Louis XIV est aussi appelé _____
6. Qu'est-ce que Louis Pasteur a découvert?
7. Qui a fondé les Institut Curie à Paris.
8. Nommez deux desserts français.
9. Qu'est-ce qu'une superstition?
10. Quel produit fabrique la marque de Michelin?

II. Répondez aux questions en 5-6 lignes

(4 x5= 20)

1. Décrivez un des artistes français et ses œuvres.
2. Écrivez de deux sculpteurs célèbres du muse du Louvre.
3. Rédigez un texte à propos de Louis XVI et Marie Antoinette.
4. Énoncez les différents modes de transports en France.
5. Expliquez l'effet de la révolution française sur la science.
6. Expliquez la cuisine française avec deux spécialités régionales.

III. Répondez aux 2 questions en 10 lignes

(2x10=20)

1. Écrivez de trois marques françaises, ses origines et ses produits.
2. Expliquez les contributions des philosophes français aux idées politiques donnant des exemples
3. Expliquez la cuisine française avec ses spécialités régionales.

IV. Répondez en utilisant le pronom en ou y.

(1x10=10)

1. Il vient de la piscine?
2. Tu as acheté des légumes?
3. Avez-vous bu de l'eau?
4. Sylvie a habité rue de MG?
5. Tu vas au café?
6. Elle fait un voyage à Venise?
7. Tu vas passer une semaine au Japon?
8. Elle parle toujours de son travail?
9. Voulez-vous manger un chocolat?
10. Il vient de du restaurant ?

Contd...2

- V. M. Dupont est allé chez une voyante pour savoir son avenir. Qu'est-ce qu'elle lui dit?
Rédigez le texte au futur simple en minimum 8-10 lignes. (10)



VI. Comparez (5)

1. La Tour Eiffel / Le Louvre
2. les femmes / les hommes
3. la télé / l'internet
4. la cuisine française / la cuisine de mon pays
5. les français / les habitants de mon pays

VII. Complétez avec le temps convenables (5)

1. Si tu as des mauvaises notes, tu _____ (être) puni !
2. Si le temps _____ (être) mauvais, nous ne sortirons pas.
3. Je _____ (venir) te voir si tu es sage.
4. Demain, il _____ (envoyer) un mél à son ami d'enfance.
5. Son gendre _____ (venir) dans cinq minutes.

VIII. Lettre et CV (10)

Vous cherchez un travail comme photographe dans une entreprise français. Rédigez un CV avec une lettre de demande

IX. COMPREHENSION (10)

Faire les magasins à Paris n'est pas seulement à faire des achats dans les boutiques de luxe ou les nombreuses boutiques de créateurs. Les petites boutiques, les marchés aux puces coexistent également. On trouve des articles à tous les prix à Paris (cher, bon marché, en promotion, d'occasion). Les Parisiens et les touristes attendent diligemment pour la période de soldes qui commence en été vers les 25, 26 juin et en hiver vers le 8 janvier de chaque année.

Les magasins de Paris ouvrent de 10h à 19h et ils sont fermés le dimanche à l'exception des boutiques du Carrousel du Louvre, de l'avenue des Champs-Élysées, du quartier du Marais ou encore de Sèvres-Babylone.

Il y a des quartiers commerçants populaires à Paris :

À la Rue de Rivoli, vous trouvez des produits des grandes enseignes (habillement, mode) ou les articles de décoration ou de souvenirs (carte postale, magnets pour coller sur le frigo, t-shirt de Paris etc). Au quartier du Louvre-des Tuileries-des Champs-Élysées connu pour être la capitale du luxe et entièrement dédié à la mode et au design vous trouvez les boutiques de grands couturiers (Yves Saint Laurent, Versace, Hermès, Prada...) alors que la rue de la Paix et la Place Vendôme voient une forte concentration des plus grands bijoutiers et joailliers de Paris (Cartier, Mauboussin, Chanel, Van Cleef, Boucheron,...). Au quartier d'Opéra et de Chaussée d'Antin, on trouve des Grands Magasins, le Printemps et les Galeries Lafayette

qui se partagent tout le Boulevard Haussmann, véritable symbole de Paris de la Belle époque

Répondez aux questions.

1. Qu'est-ce que c'est la période de soldes?
2. Où trouve-t-on les articles de décoration ou de souvenirs ?
3. Nommez des quartiers commerçants à Paris,
4. À quelle heure les magasins ouvrent et ferment à Paris ?
5. Qu'est-ce que c'est les marchés aux puces ?

Complétez.

6. Cartier, Chanel et Van Cleef sont lesfrançais. (bijouteries/boutiques/articles)
7. J'ai acheté des.....pour mes parents (enseignes/souvenirs/ soldes)

Dites vrai ou faux.

8. On trouve des choses en promotion aussi à Paris.
9. Les boutiques du Carrousel du Louvre ouvrent seulement le dimanche.
10. Ecrivez le synonyme de Brièvement dans le texte.

(2019 Batch onwards)

G 151.1

Reg. No:

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St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc./B.Com./B.B.A./B.C.A Semester I - Degree Examination

January/February 2021

MALAYALAM

Time: 3 Hours

Max. Marks: 100

I. അഞ്ചു ചോദ്യങ്ങൾക്ക് ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക (5x2=10)

1. കുചേലന് ഈ പേരുണ്ടാകാൻ കാരണമെന്ത്?
2. ഗുരുവിനെ നീ എന്നു വിളിക്കുന്നത് കൊല്ലുന്നതിനു തുല്യമാകുന്നതെങ്ങനെ?
3. കേശവൻ നായർക്കു പശുവിനെ വിൽക്കേണ്ടിവന്നതെന്തുകൊണ്ട്?
4. കുശിനിപ്പണിക്കാരനിൽ ഉണ്ടായ അദ്ഭുതകരമായ മാറ്റങ്ങൾ ഏവ?
5. അന്തർജനത്തെ എല്ലാവരും പുവൻപഴം എന്നു വിളിക്കുന്നതെന്തുകൊണ്ട്?

II. താഴെ ഉദ്ധരിക്കുന്നവയിൽ നാലെണ്ണം ഒരു പേജിൽ കവിയാതെ വിശദീകരിക്കുക

(4x5=20)

6. പ്രാഭവം പുണ്ടാരേ പ്രാകൃതൻ കാണുമ്പോൾ
പ്രാഭൃതം വേണമെന്നുണ്ടുതായം
7. കൃഷിക്കാരൻ അതു ചെയ്യുമോ കുട്ടീ? ഞാൻ മുടിഞ്ഞൊട്ടെ, എന്നാലും
ചെയ്യരുതാത്തത് ചെയ്യുകയില്ല.
8. അവരുടെ മകനുണ്ടായിരുന്നൂവെങ്കിൽ ഇതൊക്കെ
അറിയാമായിരുന്നെന്നയല്ലോ എന്ന് വിഷാദിക്കയായിരിക്കും ആ അമ്മ
9. പാർട്ടികൾ പലതാണ്. എല്ലാറ്റിലും ഒരേ സമയത്തു മുക്കൻ എങ്ങനെ
ചേരും ?
10. സർവനാമങ്ങളുടെ അർഥമുല്പത്തിന് സംഭവിച്ച അധ.പനത്തിന്
സാമുദായികമായ കാരണങ്ങളുണ്ട്.

Contd...2

1II. രണ്ടു പേജിൽ കവിയാതെ മൂന്നെണ്ണത്തിന് ഉത്തരമെഴുതുക
(3x10=30)

- 11. വിദ്യാഭ്യാസകാലത്തെ അനുഭവങ്ങൾ ശ്രീകൃഷ്ണൻ കുചേലനുമായി പങ്കുവെയ്ക്കുന്നതെങ്ങനെ?
- 12. നീ എന്ന സർവ്വനാമത്തിന്റെ പ്രയോഗവൈവിധ്യങ്ങൾ ഏവ?
- 13. കേശവൻനായരുടെ നിലത്തിന് മട വെച്ച സംഭവം വിവരിക്കുക?
- 14. അക്ഷരശൂന്യനായ ആ കുശിനിപ്പണിക്കാരൻ ആറു കൊല്ലം കൊണ്ട് ലക്ഷപ്രഭുവായതെങ്ങനെ?

IV. മൂന്ന് പേജിൽ കവിയാതെ രണ്ടെണ്ണത്തിന് ഉത്തരമെഴുതുക
(2x15=30)

- 15. കൃഷ്ണഗാഥയുടെ കാവ്യപരമായ മേന്മ വിശദമാക്കുക?
- 16. സർവ്വനാമങ്ങളും സംസ്കാരവും തമ്മിലുള്ള ബന്ധമെന്ത്?
- 17. യാഥാസ്ഥിതികനിയമങ്ങളുടെ തടവറയിലായ അന്തർജനത്തിന്റെ ദയനീയചിത്രം പൂവമ്പഴത്തിൽ എങ്ങനെ ചിത്രീകരിച്ചിരിക്കുന്നു?

V. വ്യാകരണം **(5 x2=10)**

- 18. സന്ധി നിർണ്ണയിക്കുക
കണ്ണീർ , അക്കാര്യാം
- 19. സമാസം നിർണ്ണയിക്കുക
മരക്കൊമ്പ് , കരചരണങ്ങൾ
- 20. പദങ്ങളിലെ തെറ്റ് തിരുത്തുക
i) സായാന്നം , പ്രവർത്തി
ii) എനിക്ക് പ്രായം പതിനെട്ട് വയസ്സാ
- 21. വാക്യത്തിൽ പ്രയോഗിക്കുക
കടുംപിടുത്തം , പരിത്യജിക്കുക
- 22. പൂജകബഹുവചനം എന്നാലെന്ത്?

(2020 Batch Onwards)

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Reg. No.:

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**St Aloysius College (Autonomous)
Mangaluru**

**B.A./B.Sc./B.C.A. Semester I – Degree Examination
February – 2021**

**FOUNDATION COURSE IN ENVIRONMENTAL SCIENCE AND
VALUE EDUCATION**

Time: 2 hrs.

Max Marks: 50

PART – A

ENVIRONMENTAL SCIENCE

I. Answer any TEN of the following Questions: (10x2=20)

1. Define Ecosystem? Who coined the term ecosystem?
ಪರಿಸರ ವ್ಯವಸ್ಥೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ. ಪರಿಸರ ವ್ಯವಸ್ಥೆ ಎಂಬ ಪದವನ್ನು ಯಾರು ರಚಿಸಿದರು?
2. Explain Trans Himalayas.
ಟ್ರಾನ್ಸ್ ಹಿಮಾಲಯವನ್ನು ವಿವರಿಸಿ.
3. Mention the values of biodiversity.
ಜೀವವೈವಿಧ್ಯತೆಯ ಮೌಲ್ಯಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿ.
4. What are natural resources? Classify the natural resources with an example.
ನೈಸರ್ಗಿಕ ಸಂಪನ್ಮೂಲಗಳು ಯಾವುವು? ನೈಸರ್ಗಿಕ ಸಂಪನ್ಮೂಲಗಳನ್ನು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವರ್ಗೀಕರಿಸಿ.
5. Mention any two environmental movements in India.
ಭಾರತದಲ್ಲಿ ಯಾವುದೇ ಎರಡು ಪರಿಸರ ಚಳುವಳಿಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿ.
6. Define water shed management.
ವಾಟರ್ ಶೆಡ್ ನಿರ್ವಹಣೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.
7. What are coniferous forests?
ಕೊನಿಫೆರಸ್ ಕಾಡುಗಳು ಯಾವುವು?
8. Define Ex- situ conservation. Give example.
ಹೊರಗಿನ ಸಂರಕ್ಷಣೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ. ಉದಾಹರಣೆ ನೀಡಿ.
9. Expand CITES.
CITES ಅನ್ನು ವಿಸ್ತರಿಸಿ.
10. Define Municipal Solid Waste.
ಪುರಸಭೆಯ ಘನತ್ಯಾಜ್ಯವನ್ನು ವಿವರಿಸಿ.
11. Give any two control measures of air pollution.
ವಾಯುಮಾಲಿನ್ಯದ ಯಾವುದೇ ಎರಡು ನಿಯಂತ್ರಣ ಕ್ರಮಗಳನ್ನು ನೀಡಿ.
12. What is radioactive pollution?
ವಿಕಿರಣಶೀಲ ಮಾಲಿನ್ಯ ಎಂದರೇನು?

II. Answer any ONE of the following questions.**(1x5=5)**

13. What are hazardous wastes? Explain the characteristics of hazardous wastes.
ಅಪಾಯಕಾರಿ ತ್ಯಾಜ್ಯಗಳು ಯಾವುವು? ಅಪಾಯಕಾರಿ ತ್ಯಾಜ್ಯಗಳ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
14. Write a short note on The Wildlife (Protection) Act, 1972.
ದಿ ವೈಲ್ಡ್‌ಲೈಫ್ (ಪ್ರೊಟೆಕ್ಷನ್) ಆಕ್ಟ್, 1972 ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

III. Answer any ONE of the following questions.**(1x10=10)**

15. What is soil erosion? How soil erosion can be controlled?
ಮಣ್ಣಿನ ಸವತೆ ಎಂದರೇನು? ಮಣ್ಣಿನ ಸವತೆಯನ್ನು ಹೇಗೆ ನಿಯಂತ್ರಿಸಬಹುದು?
16. Describe the different components of environment.
ಪರಿಸರದ ವಿಭಿನ್ನ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.

PART – B**VALUE EDUCATION****I. Answer any ONE of the following in not less than a page.****(1x5=5)**

17. What is emotional intelligence?
ಭಾವನಾತ್ಮಕ ಬುದ್ಧಿವಂತಿಕೆ ಎಂದರೇನು?
18. Write a note on Ignatian Pedagogical Paradigm.
ಇಗ್ನೇಷಿಯನ್ ಶಿಕ್ಷಣಶಾಸ್ತ್ರ ಮಾದರಿಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

II. Answer any ONE of the following in not less than two pages.**(1x10=10)**

19. Explain Johari Window.
ಜೊಹಾರಿ ಕಿಟಕಿಯನ್ನು ವಿವರಿಸಿ.
20. "Good decision making is an essential skill for success in general and an effective leadership skill in particular". Explain.
"ಒಳ್ಳೆಯ ನಿರ್ಧಾರ ತೆಗೆದುಕೊಳ್ಳುವುದು ಸಾಮಾನ್ಯವಾಗಿ ಯಶಸ್ವಿಗಾಗಿ ಅಗತ್ಯ ಹಾಗೂ ನಿರ್ದಿಷ್ಟವಾಗಿ ಒಂದು ಪರಿಣಾಮಕಾರಿ ನಾಯಕತ್ವದ ಕೌಶಲ್ಯವೂ ಹೌದು". ವಿವರಿಸಿ.

(2014 Batch Onwards)

G 501.1

Reg. No. :

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**St Aloysius College (Autonomous)
Mangaluru**

**B.Sc. Semester I – Degree Examination
February 2021**

**PHYSICS
PROPERTIES OF MATTER, THERMAL PHYSICS
ELECTRICITY - I**

Time: 3 hrs.

Max Marks: 100

SECTION – A

1. Answer any **TEN** of the following. (10×2=20)
- Explain what is meant by yielding point.
 - What is torsion? Explain.
 - Define angle of contact with examples.
 - Explain terminal velocity.
 - State and explain Stefan's law.
 - State and explain Joule-Kelvin effect.
 - State and explain second law of thermodynamics.
 - Explain temperature gradient.
 - What is an active circuit element? Give an example.
 - State and explain voltage division law.
 - Define conductance and give its unit.
 - Find the time constant of a circuit containing a $0.1\mu F$ capacitor and $2K\Omega$ resistor.

SECTION – B

Answer **TWO** full questions from each unit:

UNIT – I

- What is elasticity? Show that shearing strain is equal to the sum of longitudinal and compression strains along mutually perpendicular directions. (6)
 - Give the theory to determine the rigidity modulus of a material using static torsion apparatus. (4)
- Obtain the expression for the excess of pressure inside a spherical bubble. (6)
 - What is capillarity? Explain capillary rise. (4)
- Define coefficient of viscosity and explain how coefficient of viscosity of a viscous liquid is determined using Stokes' formula for terminal velocity. (6)
 - Give the assumptions made in deriving Poiseuille's formula. (4)

UNIT – II

- With relevant theory, explain Forbes' method of determining the thermal conductivity of a metal. (6)

Contd...2

- b) Discuss the flow of heat through a compound wall. (4)
6. a) What is Seebeck effect? Explain the variation of thermo-emf with temperature. (6)
- b) Explain the parts of an ideal heat engine. (4)
7. a) Obtain the expression for the work done during an isothermal process. (6)
- b) What is a perfect black body? Explain Fery's black body. (4)

UNIT – III

8. a) Derive expressions for the growth and decay of charge in a CR circuit and define the time constant of the circuit. (6)
- b) What are passive and active circuit elements? Give examples. (4)
9. a) With necessary circuit diagram, give the theory of Schering Bridge. (6)
- b) Discuss the growth of current in a LR circuit. (4)
- 10.a) With necessary diagram and theory explain how capacitance is measured using De Sauty Bridge. (6)
- b) State and explain Kirchhoff's laws. (4)

SECTION – C

Answer any FOUR of the following:

(4×5=20)

11. An inductor of 1H is connected in series with a resistor of 20Ω and a dc supply of 10V. Determine the current in the circuit after 4s, when the dc source is switched on.
12. A capacitor of $10\mu F$ has been charged and is shunted by a high resistance. If half the charge leaks away in 2 minutes, find the value of the high resistance.
13. One end of the steel wire of length 1m and radius 0.3mm is fixed. If the rigidity modulus of the material is 78GPa, calculate the work done in twisting the free end of the wire through (a) 30° and (b) 45° .
14. A soap bubble of radius 5 cm is blown to a radius of 10cm. If the surface tension of soap solution is 0.025 N/m, calculate the amount of work done.
15. A reversible engine converts $\frac{1}{10}$ th of heat input to work. When temperature of the sink is reduced by 335K, the efficiency doubles. Find the temperature of the source and the sink.
16. A potentiometer having a wire of length 4m is connected in series with a resistance of $10K\Omega$ and a cell of emf 1.0183 volts. If the voltage drop/metre length of the potentiometer is 2 mV, calculate the resistance of potentiometer wire.

(2020 Batch onwards)

G 502.1

Reg. No:

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

January/February 2021

CHEMISTRY

Time: 3 Hours

Max. Marks: 100

PART – A

Answer any TEN of the following questions in 1 to 3 sentences.

(2×10=20)

1. a) Define viscosity. Give its SI unit.
- b) Define: i) Collision number ii) Mean free path
- c) What are liquid crystals? Give an example.
- d) Write the structure of BeF₂. Give its hybridization.
- e) Write the molecular orbital configuration of oxygen molecule. What is the bond order of the molecule?
- f) The covalent character of Group I chlorides increases in the order: NaCl > KCl > RbCl. Give reason.
- g) What are nucleophiles? Give an example.
- h) Write the significance of double headed straight arrow.
- i) What is mesomeric effect?
- j) Mention any two dry tests.
- k) Mention any two methods used in the instrumental analysis.
- l) How many significant figures are there in
 - i) 0.2341
 - ii) 2.3410

PART – B

Answer any TEN of the following questions in 2 to 5 sentences

(3×10=30)

2. i) What are Boyle's temperature and inversion temperature?
- ii) Derive reduced equation of state.
- iii) Give the application of parachor in elucidating the structure of benzene.
- iv) Explain the structure of water molecule on the basis of valence bond theory and account for H – O – H bond angle of 104.5°.
- v) Explain the linear combination of s-orbitals for the formation of bonding and anti-bonding molecular orbitals.
- vi) Define the terms: polarization and polarizing power of ions.
- vii) Write the criteria for aromaticity.
- viii) Explain resonance with an example.
- ix) Give the classification of dienes with an example each.
- x) Explain the use of phenolphthalein indicator in acid-base titration.

Contd...2

- xi) In the analysis of an iron ore, the percentage of Fe_2O_3 were found to be 66.00, 65.55, 65.90, 67.85, 66.85, 69.90 and 65.00. The value 69.90 appears to be suspect. Ascertain whether this should be retained or rejected.

Given: $Q_{\text{critical}} = 0.49$

- xii) Explain the principle of sublimation and give any two applications.

PART-C

Answer any **TEN** of the following questions

(5x10=50)

- Give the classification of liquid crystals with an example for each.
- Derive the relationship between critical constants and van der Waal's constants.
- With a neat labelled diagram, explain the principle and method of determination of surface tension of a liquid.
- What are Fajans' rules? How do they explain the ionic and covalent character of bond?
- Explain the shape of XeOF_2 molecule based on VSEPR theory.
- Draw the molecular orbital diagram for CO molecule; show the filling up of electrons. Calculate bond order and explain the magnetic property.
- Explain the addition reaction of singlet and triplet carbenes.
- What is hyperconjugation effect? Explain the stability of secondary carbocations over primary carbocations using hyperconjugation effect.
- Explain the mechanism of 1,2 and 1,4 addition of hydrogen bromide to 1,3 butadiene.
- Explain the different steps involved in gravimetric analysis.
- Write the principle of paper and column chromatography.
- The two set of results, one set obtained by a standard method and the other set obtained by a new method are given below:

Standard Method (mg/L)	31	27	26	35	23	31	33	
New method (mg/L)	26	22	23	30	24	28	30	25

Determine whether the precision of the new method differs significantly from that of the standard method by using F test.

Given: $F_{\text{critical}} = 2.13$.

(2014 Batch Onwards)

G 503.1

Reg. No. :

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February 2021
MATHEMATICS
CALCULUS AND CONICS

Time: 3 Hours
Note: Answer all parts

Max. Marks: 100

PART – A

Answer any **TEN** of the following.

(10×2½=25)

1. Find the critical points of the function $f(x) = 5x^{2/3} - x^{5/3}$.
2. Given $f(x) = x^{2/3}$ and $f'(c) = \frac{f(1)-f(0)}{1-0}$, find $c \in (0, 1)$ if exists.
3. Find the oblique asymptote of the graph of $f(x) = \frac{x^2}{x-1}$.
4. Find the length of the arc of the curve $9y^2 = 4x^3$ from the origin to the point $(3, 2\sqrt{3})$.
5. Find the volume of the solid of revolution generated by revolving about the line $x = 4$, the region bounded by the curve $y = \sqrt{x}$, the x -axis and the line $x = 4$.
6. Find the volume of the sphere generated by revolving about a diameter the region enclosed by the circle $x^2 + y^2 = r^2$.
7. Evaluate $\int \sinh x \cosh^2 x \, dx$.
8. Express $\sin^{-1} \left(\frac{1}{4} \right)$ in terms of natural logarithm.
9. Evaluate $\int \cos^3 4x \sin 4x \, dx$.
10. Find the rectangular Cartesian coordinates of the point whose polar co-ordinates are $(-6, \frac{7\pi}{4})$.
11. Convert a polar equation of a graph $r^2 = 4\sin 2\theta$ into Cartesian equation.
12. Find the symmetry of $r = 3\cos 2\theta$.
13. Find an equation of the parabola having its focus at $(0, -3)$ and as its directrix the line $y = 3$.
14. Find the equation of the ellipse having focus at $(2, -3)$ a vertex at $(2, 4)$ and center on the x -axis.
15. Find the equation of the graph $xy = 1$ with respect to \bar{x} and \bar{y} axes after a rotation of axes through an angle $\frac{\pi}{4}$.

PART - B

UNIT - I

Answer any **THREE** of the following.

(3×5=15)

1. Find the horizontal and vertical asymptotes of the graph of the function $f(x) = \frac{8x-2x^2}{x^2-9}$.
2. If $f(x) = 2x^3 + 3x^2 - 12x + 1$, find the point of inflection of the graph of f and determine where the graph is concave upwards and where it is concave downward. Draw a sketch of the graph.
3. Draw a sketch of the graph of $f(x) = 2x^3 - 6x + 1$.
4. State and prove the second part of the fundamental theorem of integral calculus.
5. The measurement of an edge of a cube is found to be 15cm with a possible error of 0.01cm. Use differentials to find the approximate error in computing from this measurement a) the volume b) area of one of the faces.

Contd...2

UNIT - II

Answer any **THREE** of the following.

(3×5=15)

1. Find an approximation for $\int_0^3 \frac{dx}{16+x^2}$ by using the trapezoidal rule with $n = 6$.
2. Using Simpson's rule, find an approximation value of $\int_0^1 \frac{dx}{x^2+x+1}$ correct to 3 decimals with $n = 4$.
3. Find the volume of the solid generated by revolving about the line $x = 1$ the region bounded by the curve $(x - 1)^2 = 20 - 4y$ and the lines $x = 1$, $y = 1$ and $y = 3$ and to the right of $x = 1$.
4. Find the volume of the solid generated if the region bounded by the curve $x = y^2 + 2$ and $x = 6 - y^2$ is revolved about the x -axis.
5. If the base of a solid is the region enclosed by a circle with a radius of r units and if plane sections perpendicular to a fixed diameter of the base are squares, find the volume of the solid.

UNIT - III

Answer any **THREE** of the following.

(3×5=15)

1. Bacteria grown in a certain culture increase at a rate proportional to the number present. If 1000 bacteria are present initially and the number doubles in 30min, how many bacteria will there be in 2 hours?
2. The rate of decay of radium is proportional to the amount present at any time. If 60 mg of radium are present now and its half-life is 1690 years, how much radium will be present 100 years from now?
3. Find the length of the arc of the catenary $y = a \cosh\left(\frac{x}{a}\right)$ ($a > 0$) from the point $(0, a)$ to the point (x_1, y_1) where $x_1 > 0$.
4. Evaluate $\int \sin^5 x \cos^2 x dx$.
5. Evaluate $\int \tan^5 x \sec^7 x dx$.

UNIT - IV

Answer any **THREE** of the following.

(3×5=15)

1. Draw the sketch of the graph $r = 3 + 2 \sin \theta$.
2. Draw the sketch of the graph $r = 2 \sin 3\theta$.
3. Draw the sketch of the graph $r = 4 - 4 \cos \theta$.
4. Find the area of the region bounded by the graph $r = 2 + 2 \cos \theta$.
5. Find the area of the region enclosed by one loop of the graph of $r = 3 \cos 2\theta$.

UNIT - V

Answer any **TWO** of the following.

(2 × 7 ½ = 15)

1. If $B \neq 0$, then prove that the equation $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ can be transformed into the equation $\bar{A}\bar{x}^2 + \bar{C}\bar{y}^2 + \bar{D}\bar{x} + \bar{E}\bar{y} + \bar{F} = 0$ where \bar{A} and \bar{C} are not both zero, by rotation of axes through an angle α for which $\cot 2\alpha = \frac{A-C}{B}$.
2. Remove the xy term in $x^2 + 2xy + y^2 - 8x + 8y = 0$. Sketch the graph of the conic.
3. Simplify the equation $17x^2 - 12xy + 8y^2 - 68x + 24y - 12 = 0$ by a rotation of axes. Draw a sketch of the graph of the equation.
4. Sketch of the graph of $4x^2 - 4xy + 7y^2 - 24 = 0$.

(2015 batch onwards)

G 504.1

Reg. No.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

February - 2021

ELECTRONICS

FUNDAMENTALS OF ANALOG AND DIGITAL ELECTRONICS

Max Marks: 100

Time: 3 hrs.

Note: This question paper has THREE sections. SECTION A, SECTION B and SECTION C.

Answer all SECTIONS.

SECTION - A

1. Choose the correct answer from the choices given at the end of each question and write the correct answer. (12x1=12)
- (i) 1's complement of 1001 is _____
a) 0110 b) 1001 c) 1000 d) 0001
- (ii) Kirchoff's current law is based on the principle of _____
a) Conservation of momentum b) Conservation of charge
c) Conservation of energy d) Conservation of mass
- (iii) When a transistor is used as a switch it is made to operate between _____ region and _____ region
a) Saturation and active b) cut-off and saturation
c) cut-off and active d) saturation and breakdown
- (iv) If frequency of a wave observed in CRO is 2000 Hz, the time period is _____
a) 1×10^{-3} s b) 2×10^{-3} s c) 0.5×10^{-4} s d) 0.5×10^{-3} s
- (v) Which among these is not a fundamental gate?
a) AND b) NAND c) OR d) NOT
- (vi) If two resistors R_1 and R_2 of resistance R each are connected in parallel then the effective resistance is _____
a) $R_1 + R_2$ b) R c) $R_1 - R_2$ d) $0.5 R$
- (vii) Which among these diodes is used as a voltage regulator in a regulated power supply?
a) Varactor b) LED c) Zener d) photo
- (viii) $(1101)_2 + (0011)_2 =$ _____
a) $(10000)_2$ b) $(1000)_2$ c) $(1111)_2$ d) $(10001)_2$
- (ix) An ideal voltmeter has _____ internal resistance.
a) Low b) Infinity c) Zero d) High
- (x) The condition at which resonance takes place in a series LCR circuit is _____
a) $X_L = X_C$ b) $X_L > X_C$ c) $X_L < X_C$ d) None of these
- (xi) The dielectric medium of an electrolytic capacitor is _____
a) mica b) ceramic c) air d) electrolyte
- (xii) The transistor action takes place when junction BE is _____ and CB junction is _____ biased
a) forward, reverse b) reverse, forward
c) forward, forward d) reverse, reverse

Contd...2

2. Answer any TEN questions:**(10×1=10)**

- (i) State Kirchhoff's voltage law.
- (ii) Mention one application of varactor diode.
- (iii) Define quality factor.
- (iv) Write the truth table of 2 input OR gate.
- (v) Find the 2's complement of $(10101010)_2$
- (vi) Expand CRT.
- (vii) Write the relation between I_C , I_B and β_{dc} of a transistor.
- (viii) Draw the circuit symbol of pnp transistor.
- (ix) Write the binary equivalent of $(53)_{10}$.
- (x) Define node.
- (xi) Draw the phasor diagram of inductor.
- (xii) Define cut in voltage of a diode.

3. Answer any TEN questions.**(10×2=20)**

- (i) Write a note on fixed capacitor.
- (ii) State superposition theorem.
- (iii) What is meant by biasing? Draw the circuit of forward biased PN diode.
- (iv) Define clamper. Draw the circuit of negative clamper.
- (v) State De Morgan's theorems.
- (vi) Write the rules of binary addition.
- (vii) Draw the circuit diagram of Multirange voltmeter.
- (viii) What is meant by filter. Draw the frequency response curve of low pass filter
- (ix) Draw the circuit diagram of RC integrator.
- (x) What are Max terms? Draw the table of max terms for two input binary variables.
- (xi) Mention any two applications of transformer.
- (xii) Define current gains α_{dc} and β_{dc} of a transistor.

SECTION - B**4. Answer any SEVEN questions.****(7×4=28)**

- (i) State and prove maximum power transfer theorem.
- (ii) Subtract $(34)_{10}$ from $12_{(10)}$ using one's complement method.
- (iii) With necessary diagram explain the working of RC differentiator.
- (iv) Realize AND gate and OR gates using only NAND gates.
- (v) Perform the following binary operations
 - (i) $(1101)_2 + (1011)_2$
 - (ii) $(1101)_2 - (1011)_2$
 - (iii) $(1101)_2 + (1011)_2$
 - (iv) $(1101)_2 \div (10)_2$

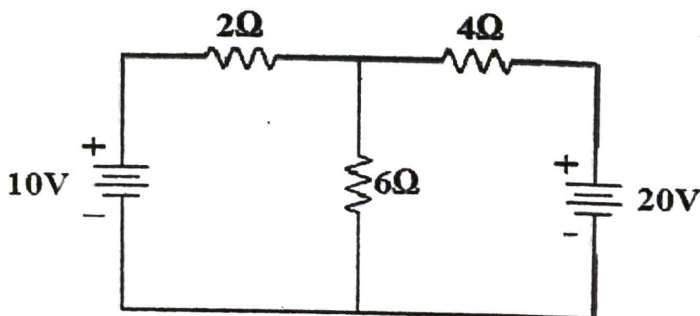
- (vi) Derive the relation between α_{dc} and β_{dc} . If β_{dc} of a transistor is 250 then find the value of α_{dc}
- (vii) State Thevenin's theorem. Write the steps to arrive at Thevenin's equivalent circuit.
- (viii) In a series LCR circuit $L = 2.0 \text{ H}$, $R = 10 \Omega$ and $C = 32 \mu\text{F}$. Calculate (a) resonant frequency and (b) quality factor.
- (ix) With necessary diagram explain the action of bridge rectifier. Draw the input and output waveforms.
- (x) Explain the formation of depletion region in an unbiased diode.

SECTION - C

Answer any **THREE** full questions:

(10x3=30)

5. a) What are h parameters? With necessary theory, obtain the expressions for h parameter. (6)
- b) Convert a BMC of $R_m = 100\Omega$ and $I_g = 10\text{mA}$ into (4)
- (A) a voltmeter of range 20 V
- (B) an ammeter of range 25 A
6. a) State the Postulates of Boolean Algebra (6)
- b) Simplify $y(a,b,c,d) = \Sigma (1,3,5,7,9,10,11,14)$ using Karnaugh map (4)
7. a) With necessary diagrams explain transistor action. (6)
- b) The turns ratio used in a half wave rectifier is 8:1. The load resistance used in the circuit is 1000Ω . The primary of the transformer is connected to 230V, 50Hz mains supply. Calculate (4)
- (i) output dc voltage
- (ii) output dc current
- (iii) frequency of the output signal
- (iv) Peak Inverse Voltage of the diode.
8. a) Derive the expression for the instantaneous current in a series LCR circuit connected to an alternating emf. (6)
- b) Using Mesh analysis find the potential difference across 6Ω resistor in the given circuit (4)



(2019 onwards)

G 505.1

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February 2021
COMPUTER SCIENCE
Problem Solving using C

Time: 3 Hours.

Max Marks: 100

PART – A

(10X2=20)

1. Answer any **TEN** of the following.

- Differentiate keywords and identifiers.
- How do you read and write single character in C? Give example.
- What is initialization? How do you initialize value 12.25 to a float variable?
- How to define the symbolic constant? Give example.
- What is entry-controlled loop? Give example.
- Define an array. How to declare one dimensional array?
- What are actual and formal parameters?
- What is recursion? Give example.
- Write the use of sizeof() operator.
- What are local and global variables?
- What is a pointer? How to declare a pointer variable?
- Define a file. List the basic operations performed on a file.

PART – B

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

(4x20=80)

UNIT - I

- Explain the basic data types supported in 'C' language. **8**
 - What are the arithmetic and relational operators available in C? **6**
 - Define constant. How they are classified? Explain. **6**
- Explain the formatted output statement with its syntax and example. **8**
 - Differentiate the following operations: **6**
 - = and ==
 - << and >>
 - ! and !=
 - Explain the various features of C Program. **6**

UNIT – II

- Which are the different forms of **if** statement? Explain. **8**
 - Explain for loop with its syntax and example. **6**
 - Write a note on: **6**
 - break statement
 - goto statement

- 5. a) Explain switch statement with its syntax and example. 8
- b) Write a C program to print largest and smallest integers among the 'n' numbers using array. 6
- c) What is nesting of loops? Explain with suitable example. 6

UNIT – III

- 6. a) What is a function? How to declare a function? Explain its components. 8
- b) Write a C program to count the number of each and total vowels in an entered string. 6
- c) Differentiate the following with respect to string 6
 - i. scanf() and gets()
 - ii. printf() and puts()

- 7. a) Explain the different storage classes in C. 8
- b) How do you pass arrays to a function? Explain with suitable example. 6
- c) Explain function definition with syntax and example. 6

UNIT – IV

- 8. a) How to define and declare structure variables? Explain with an example. 8
- b) What is dynamic memory allocation? Explain the memory management functions used in C. 6
- c) Explain the following functions: 6
 - i. getc()
 - ii. putw()
 - iii. fscanf()
 - iv. fopen()

- 9. a) Write a note on 8
 - i. Union
 - ii. Array of structures
- b) How do you access address of a variable? Explain with example. 6
- c) Write a C program code to open a text file and read the content of it. 6

(2016 Batch Onwards)

G 506.1

Reg. No.:

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. - Semester I

February 2021

STATISTICS

Descriptive Statistics and Probability Theory

Time: 3 Hours.

Max Marks: 100

Note: Answer all parts

PART - A

I. Answer any TWELVE of the following:

(2x12=24)

1. Write down the normal equations for fitting a curve of the form $Y = ab^x$.
2. Define Karl Pearson's coefficient of correlation. State any one limitation of this measure.
3. Define rank correlation coefficient. What is the value if the two rankings are in perfect agreement?
4. State the law of supply and demand?
5. Mention any two properties of regression lines.
6. Define i) Line of regression ii) Regression coefficient.
7. Show that if one of the regression coefficients is greater than unity then the other must be less than unity.
8. σ_x and σ_y are the standard deviations of two correlated variables X and Y respectively in a large sample, and r is the sample correlation coefficient. State the "Standard Error of Estimate" for linear regression of Y on X.
9. What are random experiments? Give one example.
10. Define mutually exclusive and exhaustive events with one example each.
11. If B is the subset of A, then show that $P(B) \leq P(A)$.
12. Given $P(A)=a$, $P(A \cap B)=b$ and $P(B)=c$, find the probability that at least one of A and B occurs.
13. Show that two non null independent events cannot be mutually exclusive.
14. Define independence of two random variable.
15. Find the c.d.f of x given the p.d.f

$$f(x) = \begin{cases} \frac{1}{k} & 0 \leq x \leq k \\ 0 & \text{otherwise} \end{cases}$$

PART - B

II. Answer any SIX of the following.

(6x6=36)

16. Derive the normal equations for fitting an equation of the type

$$Y = a + bx + cx^2.$$

Contd...2

17. Prove that correlation coefficient between observed and theoretical values of Y obtained from the linear regression of Y on X is numerically same as the correlation coefficient between X and Y.
18. Derive an expression for Spearman's rank correlation coefficient when there are no ties.
19. Derive the expression for angle between two regression lines and interpret when a) $\theta = 0$ and b) $\theta = 90^\circ$.
20. Show that regression coefficients are independent of origin but not scale.
21. State and prove Bayes theorem of Probability.
22. With usual notations, prove that

$$0 \leq P(A \cap B) \leq P(A) \leq P(A \cup B) \leq P(A) + P(B)$$
23. Prove that an event defined on a sample space satisfies the axioms of probability.
24. Show that conditional probability satisfies the axioms of probability.

PART – C

III. Answer any **FOUR** of the following. (10x4=40)

25. If X and Y are uncorrelated random variables with means zero and variances σ_1^2 and σ_2^2 respectively, show that $U = X \cos \alpha + Y \sin \alpha$, $V = X \sin \alpha - Y \cos \alpha$ have a correlation coefficients given by
$$\frac{\sigma_1^2 - \sigma_2^2}{[(\sigma_1^2 - \sigma_2^2)^2 + 4 \sigma_1^2 \sigma_2^2 \operatorname{cosec}^2 2\alpha]}^{1/2} \quad (10)$$
26. a) For two variables X and Y with same mean, the two regression equations are $Y = aX + b$ and $X = \alpha Y + \beta$ show that
$$\frac{b}{\beta} = \frac{1-a}{1-\alpha} \quad (5)$$

 b) Show that Karl-Pearsons correlation coefficient lies between -1 and +1. (5)
27. Derive the equation to the plane of regression of X_1 on X_2 and X_3 . (10)
28. a) Explain the method of determining demand and supply curves? (5)
 b) Write a note on Engel Curve. (5)
29. a) State and Prove addition theorem of probability for any two events. What happens if A and B are independent? (6)
 b) Define Pairwise and mutual independence of events. (4)
30. a) If A and B are two events with $P(A) = P_1 > 0$ and $P(B) = P_2$. Show that
$$P(B/A) \geq 1 - \frac{(1-P_2)}{P_1} \quad (5)$$

 b) Find the distribution function of random variable whose p.d.f is
$$f(x) = \begin{cases} \theta e^{-\theta x}; & x \geq 0 \quad \theta > 0 \\ 0; & \text{otherwise} \end{cases} \quad (5)$$

(2020 Batch Onwards)

G 507.1

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I– Degree Examination
February 2021
BOTANY
VIRUS, BACTERIA AND ALGAE

Time: 3 Hours.

Max Marks: 100

Note: i) Answer all the sections.

ii) Draw diagrams wherever necessary.

SECTION – A

I Answer any TEN of the following.

(10X2=20)

- 1) List out four differences of prokaryotes and eukaryotes
- 2) Mention one living and one non- living features of viruses
- 3) What are Phanerogams? Give examples for each.
- 4) What are (i) peritrichous and (ii) monotrichous bacteria?
- 5) What is binary fission?
- 6) List out any two diseases caused by Mycoplasma.
- 7) What is meant by (i) pseudoparenchymatous and (ii) siphonaceous thallus.
Give an example for each of them.
- 8) What are akinetes? Write its significance.
- 9) What is palmella stage? In which alga do you observe this?
- 10) What are air bladders? In which Genus do you find its presence?
- 11) What are cap cells? What is their significance?
- 12) What is (i) scalariform conjugation; and (ii) lateral conjugation?

SECTION – B

II Answer any SIX of the following.

(6x5=30)

- 1) Write a note on viroids and their significance.
- 2) Explain the structure of Tobacco Mosaic Virus
- 3) Explain bacterial conjugation and bring out its significance.
- 4) Write a brief note on Bergy's classification
- 5) Write the salient features of Class Chlorophyceae and Rhodophyceae with two suitable examples for each.
- 6) Explain the thallus structure of *Scytonema*.
- 7) Explain the haplo-diplontic life cycle in *Cladophora*.
- 8) Explain the structure of pennate diatoms.

SECTION – C

III Answer any FIVE of the following.

(5x10=50)

- 1) Explain lytic and lysogenic cycle of DNA virus in detail.

Contd...2

- 2) (a) Write a note on Bunchy top of Banana.
(b) Explain two, three and four kingdom classification of living organisms.
- 3) Describe the mode of nutrition in bacteria with suitable examples.
- 4) Write a note on experimental evidence to conclude transformation occurs in bacteria. How is it different from transduction?
- 5) Describe the colony of (i) *Hydrodictyon*; and (ii) *Stigonema*
- 6) Describe the thallus of *Volvox* and add a note on asexual mode of reproduction in *Volvox*.
- 7) (i) Explain the structure of Cystocarp (ii) Male conceptacle in Sargassum
- 8) Describe the thallus structure in *Chara*. Add a note on its sex organs.

G 508.1

(2014 Batch Onwards)

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February 2021
ZOOLOGY
Animal Diversity (Non-Chordata)

Time: 3 Hours.

Max Marks: 100

Note: i) Answer any TEN questions from PART A and ONE FULL question from each unit of PART B.

ii) Draw diagrams wherever necessary.

PART – A

I Answer any TEN of the following.

(10X2=20)

- Define species. Give an example.
- Name any two classes of phylum protozoa.
- Draw a neat labeled diagram of a choanocyte.
- What is cnidoblast? Mention its function.
- Write any two affinities of ctenophore with Platyhelminthes.
- Enumerate any two distinctive characters of class cestoda with an example.
- Give any two examples of tubicolous polychaetes.
- Mention any two economic importance of insects.
- Write the important features of class arachnida with an example.
- What is radula? Explain.
- Name any two classes of phylum echinodermata giving one example for each.
- Name the coelomic cavities in *Balanoglossus*.

PART – B

Select **ONE** full question from each unit.

Unit I

- II a)** Give an account of the histology of sponges. **(10)**
- b)** Draw and explain the external morphology of *Elphidium*. **(5)**
- c)** What is biodiversity? Explain ecosystem level. **(5)**

OR

- III a)** Give an account of the general characters of phylum protozoa with any two examples. **(10)**
- b)** Draw a neat labeled diagram of ascon type of canal system. **(5)**
- c)** Explain the principles of binominal nomenclature as a basis of animal classification. **(5)**

Unit II

- IV a)** Explain the general characters of phylum nemathelminthes, give any two examples. **(10)**
- b)** Explain the polymorphic colony of *Halitemma*, with the help of a neat diagram. **(5)**
- c)** Give an account of parasitic adaptations of Platyhelminthes. **(5)**

OR

Contd...2

- V a)** Classify phylum coelenterata up to classes, giving ten distinctive characters and any one examples for each. (10)
- b)** Draw and explain the external morphology of *Ascaris*. (5)
- c)** With the help of a diagram explain the external morphology of *Pleurobrachia*. (5)

Unit III

- VI a)** Draw and explain the external morphology of *Pheritema* and add a note on its economic importance. (10)
- b)** With the help of a diagram, explain sponging type of mouth parts in insects. (5)
- c)** Write any six general characters of phylum arthropoda and give two examples. (5)

OR

- VII a)** Classify phylum annelida upto class, give the important characters and examples for each class. (10)
- b)** List the cephalic appendages of *Penaeus*. Draw and explain any two. (5)
- c)** Explain the affinities of *Peripatus*. (5)

Unit IV

- VIII a)** Give an account of general characters of subphylum hemichordata, give two examples. (10)
- b)** Write a short note on the larval forms of echinodermata. (5)
- c)** Draw and explain the external morphology of *Pila globosa*. (5)

OR

- IX a)** Draw and explain the external morphology and water vascular system in *Asterias*. (10)
- b)** Explain the economic importance of molluscs. (5)
- c)** Draw and explain Tornaria larva. (5)

G 509.1

(2019 Batch Onwards)

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
January/February 2021
MICROBIOLOGY
FUNDAMENTALS OF MICROBIOLOGY

Time: 3 Hours.

Max Marks: 100

Instructions: Answer PART A AND B AND C

Draw Diagrams wherever necessary.

PART – A

1. Define/Answer any **TEN** of the following:

(2x10=20)

- a) Resolving Power
- b) Archae Bacteria
- c) Atomic Force Microscope
- d) Nutrient broth
- e) SEM
- f) Genotype
- g) Chemostat
- h) Pure culture
- i) Metallic salts
- j) Heterotrophs
- k) Cardinal temperature
- l) Mordant

PART – B

Answer 'a' or 'b' and 'c' is compulsory from each unit.

(15x4=60)

UNIT -I

2. a) Explain the contributions of Robert Koch (9)

OR

b) Describe the parts and working principle of dark field microscope

c) Write a note on capsule staining (6)

UNIT -II

3. a) Write a note on Bergey's Manual (9)

OR

b) Describe the different characteristics used in microbial taxonomy

c) Write a note on numerical taxonomy (6)

UNIT -III

4. a) Describe the common nutritional requirements of microorganisms (9)

OR

b) Describe the methods of sterilisation by using moist heat

c) Write a note on group translocation (6)

UNIT -IV

5. a) Explain the methods of culturing bacteria (9)

OR

b) Describe the phases of bacterial growth curve

c) Write a note on maintenance and preservation of pure culture (6)

PART – C

Answer any **FOUR** of the following.

(5x4=20)

6. a) Beijerinck
- b) Domain bacteria
- c) Active transport
- d) Generation time
- e) Membrane filters
- f) Negative staining

(2019 Batch Onwards)

G 510.1

Reg. No. :

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I- Degree Examination

January/February -2021

BIOCHEMISTRY

BIOMOLECULES

Time: 3 Hours

Max. Marks: 100

PART – A

1. **Answer any TEN of the following.** (10×2=20)
- What are diastereomers? Give example
 - Write structure of fructose and glucose
 - What is an Osazone test?
 - Define saponification value
 - Define pKa value? Give one example
 - What is difference between peptide and glycosidic bond?
 - Give two functions of Glycerophospholipids
 - Give two examples for non-essential amino acids
 - Write two differences between B-DNA and A-DNA
 - What is stereoisomerism? Give example
 - Give general structure of Purine.
 - Write structure of Histidine and Methionine

PART – B

Answer any SIX of the following. (6×5=30)

- Explain primary and secondary structure of protein
- Write a note on Barford's and Seliwanoff's test
- Give an account on stereochemistry of monosaccharides
- Describe any two polysaccharides with structure.
- Give an account on any four reactions of glucose
- Explain essential fatty acids with example
- What is isoelectric pH of amino acids? Explain in detail with example
- Write on note on denaturation and renaturation of proteins

PART – C

Answer any FIVE of the following: (5×10=50)

- Explain in detail about classification of lipids with examples
- Give an detailed account on Chemical properties of fat and its significance
- Explain the chemical reaction of Fructose.
- What are synthetic peptides? Give a brief account on polyglutamic acid and polylysine
- Explain the classification of proteins based on its shape and solubility.
- Give an note on biological importance different types RNA with examples
- Explain in detail about effect of UV, acid and alkali on DNA with examples in biological systems

(2020 Batch Onwards)

G 511.1

Reg. No. :

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I - Degree Examination
February 2021

BIOTECHNOLOGY
BIOPHYSICS AND BIostatISTICS

Max. Marks: 100

Time: 3 Hours

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

PART - A

1. Answer any **TEN** of the following:

(10×2=20)

- Define pH
- State Beer Lamberts law
- Mention the uses of microscopes in biology
- Define Svedberg law
- Mention the difference between PAGE and Agarose gel electrophoresis
- What is TLC? Add note on the stationary phase in TLC
- Define the unit of radiation. Add a note on half life
- Differentiate between active and passive transport with an example
- What is Membrane potential?
- Define population and sample with an example
- Calculate the value of median if mean=16 and mode=21
- Define standard deviation

PART - B

Answer any **SIX** of the following:

(6×5=30)

- Derive Henderson and Hasselbach equation and describe the terms
- Describe the principle of Phase contrast microscope with a neat labelled diagram
- Explain density gradient centrifugation technique
- Explain 2D electrophoresis
- Describe Gieger-Muller counter
- Explain the specimen preparation for autoradiography
- Compute the arithmetic mean from the following data

Plant height(cms)	0-10	10-20	20-30	30-40	40-50	50-60
No of varieties	5	10	25	30	20	10

- Calculate the mean, variance, standard deviation and coefficient of variation for the following data.

class	0-10	10-30	30-60	60-80	80-90	90-100
frequency	5	16	30	12	6	1

Contd...2

PART - C

(5x10=50)

Answer any FIVE of the following:

10. Describe the principle and instrumentation of SEM
11. Explain the impact of pH on bimolecular reactions
12. Describe principle, instrumentation of HPLC
13. Explain Ultracentrifugation technique
14. Describe the uses of isotopes in biology
15. Describe the structure of fluid mosaic model
16. Explain random sampling technique
17. Calculate the mode from the following data recorded on mutants in barley

No. of mutants	7	8	9	10	11	12	13	14	15	16	17	18
No of plants	47	52	56	60	63	64	65	50	52	41	57	64

G-110.1/G 512.1

(2019 batch onwards)

Reg. No.

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**St Aloysius College (Autonomous)
Mangaluru**

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

January/February 2021

COMPUTER ANIMATION

INTRODUCTION TO COMPUTER ANIMATION AND ANIMATION GRAPHICS

Time: 3 hrs.

Max Marks: 100

SECTION - A

Answer any **TEN** of the following:

(2×10=20)

1. a) How to take duplicate copies in Photoshop and CorelDraw?
- b) Name any four layer styles.
- c) Describe feather effect.
- d) What is the resolution for digital print?
- e) What is the use of property bar in Corel Draw?
- f) How to give multi-color for CorelDraw objects?
- g) How to save GIF files?
- h) What is weld and trim?
- i) Mention the use of smudge tool?
- j) What is the color mode of Photoshop and CorelDraw?
- k) What is the use of red eye tool?
- l) What is object intersecting?

SECTION - B

Answer any **FOUR** of the following:

(5 × 4 = 20)

2. What are the features of Photoshop?
3. Write down the steps of creating soap.
4. Explain the procedure of creating eye blinking animation.
5. Write down the steps of creating Dew drops.
6. How to ass text on path in CorelDraw.

SECTION - C

Answer any **TWO** of the following:

(10×2=20)

7. Explain briefly about Graphic Design.
8. Write a brief note on layers.
9. Explain on convert to curves objects.

SECTION - D

Answer any **TWO** of the following:

(20×2=40)

10. What are the difference between vector and Bitmap Graphics? Explain.
11. Design Photoshop layers and toolbox. Explain all the tools.
12. Design CorelDraw layout and toolbox. Explain all the tools in details.

G 513.1

(2019 Batch Onwards)

Reg. No. :

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. - SEMESTER I - Degree Examination

January *February 2021*

ECONOMICS

PRINCIPLES OF ECONOMICS - I

Time: 3 hrs.

Max Marks: 100

PART - A

Answer any **FOUR** of the following questions in about 10 sentences each.

(4×5=20)

1. Distinguish between micro and macro economics.
2. Write a note on law of equi-marginal utility.
3. Write a note on the principle of marginal rate of substitution.
4. Write a note on 'Economies of Scale'.
5. Distinguish between fixed cost and variable cost.
6. Examine the determinants of supply.

PART - B

Answer any **FOUR** of the following questions in about 20 sentences each.

(4×10=40)

7. Explain the basic problems of an economy.
8. Distinguish between changes in demand and changes in quantity demanded.
9. Evaluate Samuelson's Revealed Preference Theory.
10. Explain the properties of isoquants in the short run.
11. Explain the cost output relationship.
12. Examine the relationship between average revenue and marginal revenue under perfect and imperfect competition.

PART - C

Answer any **TWO** of the following questions in about 50 to 60 sentences each.

(2×20=40)

13. Explain the scarcity definition of Economics. What are its criticisms?
14. Explain the various methods of measuring price elasticity of demand.
15. What are indifference curves? Explain its properties.
16. Explain the law of variable proportions
