(2016 Batch onwards)

G 135.4/335.4/535.4

Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Com./B.Sc. - Semester IV - Degree Examination

April – 2019

ENGLISH

Time: 3 Hours **Max. Marks: 100**

UNIT – I (PROSE)

I. A. Answer the following in a Word/Phrase/Sentence each: **(5x1=5)**

1. How does the author distinguish between worry and fear?
2. Mention two people Kalam feels fortunate to have worked with.
3. Name the river that is mentioned in the lesson/short story "A Handful of Dates".
4. The pawns on the chess board represent serfs or labourers. True/False.
5. Ngugi and other African children always identified themselves with the _____ in the African stories told in Gikuyu.
   (Lions, Tigers, Hare, Vultures)

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

1. "Chess is a history of medieval times in miniature". Explain.
2. Explain Wylie's first experience of addressing the public.
3. What does Kalam say about invasions and freedom with reference to India? Do you agree?
4. How does Kalam justify his statement "Our conscience is mortgaged to money"?
5. Comment on the character of Masood in the short story "A Handful of Dates".
6. What does Ngugi say about animal stories told in Gikiyu?

UNIT – II (POETRY)

II. A. Answer any <u>TWO</u> of the following in about 100 - 150 words each: **(2x5=10)**

1. Write a note on the satirical tone in the poem, "The Telephone Call".
2. Analyse the Indianness in Ezekiel's poem with suitable references from the poem, Goodbye Party for Miss Pushpa T.S.
3. Examine the appropriateness of the title of the poem "Digging" by Heaney.
4. Describe some of the pictures engraved on the Grecian Urn.

B. Answer any <u>TWO</u> of the following in 100 - 150 words each:
Annotations. **(2x5=10)**

1. Money is our madness, our vast collective madness,
   And of course, if the multitude is mad
   The individual carries his own grain of insanity around with him.

Contd...2

2. Heard melodies are sweet, but those unheard
Are sweeter; therefore, ye soft pipes, play on;
Not to the sensual ear, but, more endear'd,
Pipe to the spirit ditties of no tone:

3. The cold smell of potato mould, the squelch and slap
Of soggy peat, the curt cuts of an edge
Through living roots awaken in my head
But I've no spade to follow men like them.

4. You are all knowing, friends,
what sweetness is in Miss Pushpa
I don't mean only external sweetness
but internal sweetness.
Miss Pushpa is smiling and smiling
even for no reason but simply because
she is feeling.

UNIT – III (Drama)

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

1. Why does the stranger pity the mother and daughter when he hears about the "Missing son"?
2. The stranger says "there's not much fun around here ..... you ought to be in a big town". What is "fun", in his opinion?
3. How does the stranger react when Anna grips his hand?
4. Anna accuses her mother of being "old and _____".
5. The stranger had met the vodka shop keeper earlier and narrated his story". True/False?

B. Answer any <u>TWO</u> of the following in about 200 words each: **(10x2=20)**

1. The play opens with a conversation between the stranger, the mother and her daughter. The stranger's questions deal mostly with issues of gender, feminity and class. Discuss these with reference to the play.
2. The play 'Lithuania' has all the characteristics of a modern tragedy. Discuss the events that contribute to the tragic plot.
3. The father is portrayed as rather weak, henpecked and a drunkard. How does the playwright create this impression? Answer with reference to the play.
4. Poverty is a dominant motif in the play Lithuania. How does it contribute to the tragedy?

UNIT – IV (Grammar and Writing Skills)

IV. A. Add suitable question tags to the following: **(6x1=6)**

1. Rahul hasn't passed the exam _____?

Contd...3

2. I am late _____?
3. Let's go to the library _____?
4. They are playing beautiful music _____?
5. The boy will hurt himself _____?
6. You are in the wrong _____?

B. Paraphrase the following passage in about 150-200 words: **(6)**

More things are wrought by prayer
Then this world dreams of. Wherefore, let thy voice
Rise like a fountain for me night and day.
For what are men better than sheep as goats
That nourish a blind life within the brain,
If knowing God, they lift not hands of prayer.
Both for themselves and those who call them friends!

C. Rearrange the jumbled sentences into a coherent paragraph: **(6)**

It is easy to allow oneself to be carried away by resentment and hate into an act of vengeance but it takes a strong character to restrain those natural passions. Forgiveness may even turn a foe into a friend. The man who forgives an injury proves himself to be the superior of the man who wronged him and puts the wrong-doer to shame. To forgive an injury is often considered a sign of weakness; it is really a sign of strength.

D. Use the following details to write a cover letter and a Resume. **(6)**

1. Mr. Ramesh wants to apply for a job of a technical assistant in a company manufacturing valves for boilers. The address of the managing director is : The Managing Director, Triton Valves and Boilers, #73, Andheri West, Mumbai.

E. Write a refutation choosing any <u>ONE</u> of the following topics in about 150 words: **(6)**

1. Familiarity breeds contempt.
2. All that glitters is not gold.
3. Man is the maker of his destiny.

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G 136.4/336.4/536.4 (2014 Batch Onwards)

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

St Aloysius College (Autonomous)
Mangaluru
B.A/B.Com./B.Sc. - Semester IV - Degree Examination
April – 2019

HINDI

Time: 3 hrs. Max Marks: 100

I. अ. किसी एक प्रश्न का उत्तर लिखिए : (1x6=6)

1. आलेखन क्या है ? एक अच्छे आलेखन के गुण कौन से हैं ? किन्हीं तीन गुणों को विस्तार से लिखिए ।
2. आलेखन संबंधी सामान्य अनुदेश विस्तार से लिखिए ।

आ. किन्हीं दो प्रश्नों का उत्तर लिखिए: (2x7=14)

1. राजकमल प्रकाशन दिल्ली से जो किताबें आपने मँगवाये हैं वह सूची के अनुसार नहीं हैं । उन्हें इस पर शिकायती पत्र लिखिए ।
2. "जुगुल रेशम हाउस" मैसूर में मैनेजर के पद के लिए एक आवेदन पत्र लिखिए ।
3. "ओरियंटल इलेक्ट्रोनिक्स" प्रा.लि. की तरफ से अपने प्रतिष्ठान में बिजली के उपकरणों का जो एक नया विभाग खोला गया है उसकी सूचना देते हुए एक परिपत्र लिखिए ।

II.अ. एक वाक्य में उत्तर लिखिए : (5x1=5)

1. संविधान सभा के पहले अध्यक्ष कौन बने ?
2. राजभाषा आयोग के गठन का आदेश कब हुआ ?
3. स्वतंत्र देश को अपनी ही भाषा में राजकाज चलाना चाहिए, यह किसका अभिमत था ?
4. संसदीय समिति में अपनी रिपोर्ट राष्ट्रपति के समक्ष कब पेश की ?
5. 1948 के संविधान के प्रारूप में सिर्फ किसका उल्लेख था ?

आ. किसी एक प्रश्न का उत्तर लिखिए : (1x5=5)

1. राजभाषा आयोग पर प्रकाश डालिए ।
2. राष्ट्रपति का आदेश 27 अप्रैल 1960 के मुख्य मुद्दो पर प्रकाश डालिए ।

इ. निम्नलिखित अवतरण का पल्लवन कीजिए : (1x4=4)

'क्रोध एक तरह का रोग होता है, जिसे क्षणिक पागलपन भी कह सकते हैं ।' - महात्मा गाँधी ।

ई. किसी एक विषय पर निबंध लिखिए : (1x6=6)

1. कंप्यूटर
2. भारत में नारी का स्थान

III. अ. एक वाक्य में उत्तर लिखिए : (8x1=8)

1. आचार्य द्रोण के कितने शिष्य थे ?
2. मनुष्य को कब नाखून की जरूरत थी ?
3. "गपशप" चर्चा के लेखक कौन है ?
4. पेपर जाँचने के लिए किसने अज्ञात व्यक्तियों को दे दिए ?
5. नाखून काटने की प्रवृत्ति किसकी निशानी है ?
6. कौन गप्पे हाँकने में आला है ?

Contd...2

7. पद-क्रम के अनुसार द्रोणाचार्य कया कहलाते थे ?
8. काम की बातों से किसका पता नहीं चलता ?

आ. किसी एक विषय पर टिप्पणी लिखिए : (1x6=6)

1. गपशप
2. अर्जुनदास

इ. किसी एक का संदर्भ सहित व्यारव्या कीजिए : (1x6=6)

1. "क्या यह सत्य नहीं है कि आपके रीडर बनने में मेरे पिताजी का बडा हाथ है?"
2. "उसमें संयम है, दूसरों के सुख-दुःख के प्रति संवेदना है, श्रद्धा है, तप है, त्याग है ।"

ई. किसी एक प्रश्न का उत्तर लिखिए : (1x10=10)

1. "हरिशंकर परसाई जी" का व्यंग्य" - एकलव्य ने गुरु को अँगूठा दिखाया में व्यक्त व्यंग्य को अपने शब्दों में स्पष्ट लिखिए ।
2. "नाखून क्यों बढ़ते हैं निबंध का सारांश लिखिए ।

IV.अ. एक वाक्य में उत्तर लिखिए : (8x1=8)

1. अलबम कहानी के लेखक कौन है ?
2. पंडितों ने हरिवंशराय का जन्म किस नक्षत्र में हुआ बताया ?
3. सबिया के पति का नाम क्या है ?
4. शादीराम ने पैसा पैसा बचाकर कितने रूपए जोड लिए ?
5. लेखक को माँ ने पाँच पैसे में किसके हाथ में बेच दिया ?
6. मैकू अपनी पत्नी को छोडकर किसके साथ चला गया था ?
7. हरिवंशराय बच्चनजी की दूसरी आत्मकथा के खंड का नाम क्या है ?
8. पंडित शादीराम ने किससे ऋण लिया था ?

आ. किसी एक विषय पर टिप्पणी लिखिए : (1x6=6)

1. पंडित शादीराम
2. भक्तिन

इ. किसी एक का संदर्भ सहित व्यारव्या कीजिए : (1x6=6)

1. "इनमें चित्र हैं । जब कभी बच्चे रोने लगते हैं, तो एकाध निकालकर दे देता हूँ । इससे उनके आँसू थम जाते हैं ।"
2. "बचिया के आँधर-धूँधर आजी है, मालकिन! ओहका बिन खियावे-पियाए कसन रवाब ।"

ई. किसी एक प्रश्न का उत्तर लिखिए : (1x10=10)

1. "क्या भूलूँ क्या याद करूँ" आत्मकथा अपने शब्दों में विस्तार से लिखिए ।
2. 'सबिया' रेखाचित्र का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए ।

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(2015 batch onwards)

G 537.4

Reg. No. | | | | | | |

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ) ಮಂಗಳೂರು

ಬಿ.ಎಸ್ಸಿ – ನಾಲ್ಕನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ

ಏಪ್ರಿಲ್ – 2019

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ – 4

ಸಮಯ : 3.00 ಘಂಟೆ

ಅಂಕಗಳು : 100

I : ಕಾವ್ಯ ಭಾಗ – 1

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 10X2=20

1. ಸುಪ್ರತೀಕ ಗಜದ ಪರಾಕ್ರಮವನ್ನು ವಿವರಿಸಿ
2. ನೊಂದವರ ಆಶಾವಾದ ಅಂಬೇಡ್ಕರ್ ಅವರ ಅಗಲಿಕೆಗೆ ಚೆನ್ನಣ್ಣವಾಲೀಕಾರ ಪ್ರತಿಕ್ರಿಯಿಸಿದ ಬಗೆ ಹೇಗೆ?
3. ಉಷಾ–ಅನಿರುದ್ಧರ ಪ್ರಣಯದ ಸಾಫಲ್ಯವನ್ನು ವಿವರಿಸಿ

ಆ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 3X1=03

1. ಗೋವಿಂದ ಪೈ
2. ಕುಮಾರವ್ಯಾಸ

ಇ) ಕೆಳಗಿನ ಪದ್ಯಗಳಲ್ಲಿ ಒಂದರ ಭಾವಾನುವಾದ – ಸಂದರ್ಭ – ಸ್ವಾರಸ್ಯಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ 6X1=06

1. ಚೂಣಿಯ ಭಟಂ ಗಾಯದಳಲ ಲೆಕ್ಕಿಸದೆ ಮುಂ
   ಗಾದಾಡಿ ಮಡಿದು ಜಯವಡುವಂತೆ, ನರ ನರಂ
   ಗಳಲಿ ಕುದಿಕುದಿವ ವೇದನೆ ಸೋಸಿ, ತನ್ನ ತೊರೆ
   ದರ್ಭಕರ ಹಂಬಲಿಸುವ ಮುಮೂರ್ಷು ತಾಯಂತೆ
   ತನ್ನ ಕಡಿದವರ್ಗೆ ತಣ್ನೆಳಲೀವ ಮರದಂತೆ
2. ಹೃದಯ ಮೊಂಬತ್ತಿಯಾಗಿ ಉರಿಯುತ್ತಿದೆ
   ಕಪ್ಪು ಮಸಿಯ ಮೇಲೆ ರಕ್ತಗೆಂಪಿನ
   ಚಿತ್ತಾರದ ಅಂಗಿ ರಫ್ತಿನ ಪೆಟ್ಟಿಗೆಯಲಿ
   ಬೆಚ್ಚಗೆ ಗಡಿ ದಾಡಿದೆ.

ಈ) ಕೆಳಗಿನ ಪದ್ಯದ ಸಾಲುಗಳಲ್ಲಿ ಎರಡರ ಸಂದರ್ಭ – ಸ್ವಾರಸ್ಯಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ 3X2=06

1. ಸಂಗರಕೆ ಬೇಸರು ತೋರಿತೇ
2. ರೂಪ ತಂದಿದೆ ನೋಡು
3. ಆಚಾರ ಎಂಬ ಆವಿಗೆ ಮುಚ್ಚಿ
   ಆರುವ ಎಂಬ ಬೆಂಕಿಯ ಹಚ್ಚಿ

ಉ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 1X5=05

1. 'ಕನ್ನಡ ಭಾರತ' ಇದು ಯಾವ ಷಟ್ಪದಿಯಲ್ಲಿದೆ?
2. ಪ್ರದ್ಯುಮ್ನ ಯಾರ ಮಗ?
3. 'ಸೌಂದರ್ಯ ಸಮೀಕ್ಷೆ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?
4. 'ಸಾಹಿತ್ಯ ನಿರೂಪಣೆ' ಯಾರ ಕೃತಿ?
5. 'ಗೊಮ್ಮಟ ಜಿನಸ್ತುತಿ' ಬರೆದವರು ಯಾರು?

contd...2

II : ಗದ್ಯ ಪ್ರಬಂಧಗಳು

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 10X2=20

1. ಮಹಿಳಾ ಮೀಸಲಾತಿಯ ಅಗತ್ಯದ ಹಿನ್ನಲೆಯಲ್ಲಿ ಕಂಡು ಬರುವ ಚಾರಿತ್ರಿಕ ಹಾಗೂ ವರ್ತಮಾನದ ವೈರುಧ್ಯಗಳನ್ನು ವಿವರಿಸಿ
2. ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರವು ಕ್ಷಿಪ್ರಗತಿಯಲ್ಲಿ ಬದಲಾಗುತ್ತಿರುವ ಅಂಶವನ್ನು ಪ್ರಬಂಧ ಹೇಗೆ ನಿರೂಪಿಸಿದೆ?
3. ದೋಸೆ ತಯಾರಿಸುವ ಪ್ರಕ್ರಿಯೆಯಲ್ಲಿ ಅಡಗಿರುವ ವೈಜ್ಞಾನಿಕ ತತ್ವಗಳನ್ನು ವಿವರಿಸಿ

ಆ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 6X1=06

1. ಡಾ.ಎಚ್.ಎಸ್. ಅನುಪಮ
2. ಗೌತಮನು ಸತ್ಯಶೋಧನೆಯಲ್ಲಿ ಮೊದಲು ಅನುಸರಿಸಿದ ಮಾರ್ಗವನ್ನೂ ಅದರ ಪರಿಣಾಮವನ್ನು ವಿವರಿಸಿ.

ಇ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 1X4=04

1. ಪಿ.ಲಂಕೇಶರ ಆತ್ಮಕಥನದ ಹೆಸರೇನು?
2. ಇರುವುದೊಂದೇ ಭೂಮಿ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?
3. ಪ್ರೊ.ಜಿ.ಆರ್ ಲಕ್ಷ್ಮಣರಾವ್ ಅವರ ಯಾವ ಕೃತಿಗೆ ಕರ್ನಾಟಕ ಸಾಹಿತ್ಯ ಅಕಾಡಮಿ ಪ್ರಶಸ್ತಿಲಭಿಸಿದೆ?
4. 'ಒಡಲಾಳ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?

III : ಮಹಾಕಾವ್ಯ

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 10X1=10

1. ಶ್ರೀರಾಮಚಂದ್ರನು ವನವಾಸಕ್ಕೆ ತೆರಳಿದ ಸಂದರ್ಭವನ್ನು ವಿವರಿಸಿ.
2. ಸೀತೆಯ ದು:ಖಕ್ಕಿಂತ ಊರ್ಮಿಳೆಯ ದು:ಖ ಹೆಚ್ಚು ತೀವ್ರವಾದುದು ಹೇಗೆ? ಕಾವ್ಯಭಾಗದ ಹಿನ್ನಲೆಯಲ್ಲಿ ವಿಶ್ಲೇಷಿಸಿ

ಆ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 3X2=06

1. ಸೀತಾರಾಮರ ಸಂವಾದ
2. ಕುಪಿತ ಲಕ್ಷ್ಮಣನ ಮಾತುಗಳು
3. ಸುಮಂತ

ಇ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 1X4=04

1. 'ಕೋಗಿಲೆ ಮತ್ತು ಸೋವಿಯಟ್ ರಷ್ಯ' ಕಥೆಯನ್ನು ಬರೆದವರು ಯಾರು?
2. 'ಸೌಮಿತ್ರಿ'ಯ ಇನ್ನೊಂದು ಹೆಸರು ಯಾವುದು?
3. 'ಗುಹ'ನೆಂದರೆ ಯಾರು?
4. ಊರ್ಮಿಳೆ ಯಾವ ನದಿ ದಂಡೆಯಲ್ಲಿ ಪರ್ಣಕುಟಿ ನಿರ್ಮಾಣ ಮಾಡಿದಳು?

IV : ಕ್ರಿಯಾತ್ಮಕ ಕನ್ನಡ

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 7X1=07

1. ಅಂತರ್ಜಾಲ ಎಂದರೇನು? ಅದನ್ನು ಬಳಸಲು ಬೇಕಾದ ಸಾಧನಗಳ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ
2. ಕರ್ನಾಟಕದಲ್ಲಿ ದೂರದರ್ಶನ ಬೆಳೆದು ಬಂದ ಬಗೆಯನ್ನು ತಿಳಿಸಿ

ಆ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 1X3=03

1. ಕನ್ನಡದ ಮೊದಲ ಆಕಾಶವಾಣಿ ಕೇಂದ್ರ ಯಾವುದು?
2. ವ್ಲಾಗರ್ ಎಂದರೆ ಯಾರು?
3. 'ವಿದ್ಯುನ್ಮಾನ ಮಾಧ್ಯಮಗಳು' ಲೇಖನದ ಕರ್ತೃ ಯಾರು?

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(2016 Batch onwards)

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Reg. No. | | | | | | |

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination
April - 2019
SANSKRIT

Time: 3 hrs. **Max Marks: 100**

1 *श्लोकत्रयाणाम् अन्वयार्थं तात्पर्यं च कर्णाटकभाषया आङ्ग्लभाषया वा विवृणुत ।* **(3 X 6 = 18)**

1.1 सत्यं ब्रूयात् प्रियं ब्रूयात् न ब्रूयात् सत्यमप्रियम् ।
प्रियञ्च नानृतं ब्रूयात् एष धर्मः सनातनः ॥

1.2 तिथिश्च वासरश्चैव नक्षत्रं योग एव च ।
करणं चेति कालस्य पञ्चङ्गानि विदुर्बुधाः ॥

1.3 वक्त्रेण उत्पलनालेन यथोर्ध्वं जलमाददेत् ।
तथा पवनसंयुक्तः पादैः पिबति पादपः ॥

1.4 वालाग्रशतभागस्य शतधा कल्पितस्य च ।
भागो जीवः सः विज्ञेयः स चानन्त्याय कल्पते ॥

2 *पञ्चानां वाक्यविवरणं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।* **(5 X 5 = 25)**

2.1 दुःखस्य मूलं कामः इति सर्वे जानन्ति ।

2.2 अभ्यासवैराग्याभ्यां तन्निरोधः।

2.3 गणितं तावत् विज्ञानस्य मूलम् ।

2.4 अपुष्पाः फलवन्तो ये ते वनस्पतयः स्मृताः ।

2.5 जात्यत्रिभुजे भुजकोटयोः वर्गयोगः कर्णवर्गसमः ।

2.6 योगः चित्तवृत्तिनिरोधः ।

2.7 उत्तरासुपञ्चदशतिथिषु चन्द्रकलाः क्षीयन्ते ।

3 *द्वयोः संस्कृतभाषया टिप्पणीं लिखत ।* **(2 X 6 = 12)**

3.1 वृक्षायुर्वेदः । 3.2 गणितशास्त्रम् । 3.3 अष्टाङ्गयोगः ।

4 *द्वयोः टिप्पणीं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।* **(2 X 8 = 16)**

4.1 'प्राचीनभारतीयखगोलशास्त्रम्'– अधिकृत्य लिखत ।

4.2 'योगः चित्तवृत्तिनिरोधः' – विशदयत ।

4.3 प्राचीनभारतीयविज्ञाने उक्तं अणुविज्ञानमधिकृत्य लिखत ।

5 *एकमधिकृत्य प्रबन्धरूपेण कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।* **(1 X 11 = 11)**

5.1 'वृक्षायुर्वेदः' – अधिकृत्य प्रबन्धं लिखत ।

5.2 कालस्य पञ्च अङ्गानि कानि ? विवृणुत ।

6 *न्यायत्रयं कर्णाटकभाषया आङ्ग्लभाषया वा विशदयत ।* **(3 X 6 = 18)**

6.1 अन्धगजन्यायः ।

6.2 नष्टाश्वदग्धरथन्यायः ।

6.3 सिंहावलोकनन्यायः ।

6.4 सिकतातैलन्यायः ।

6.5 भिक्षुपादप्रसारणन्यायः ।

6.6 टिटिभन्यायः ।

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(2014 Batch onwards)

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St Aloysius College (Autonomous)

Mangaluru

B.A. /B.Sc./B.Com Semester IV - Degree Examination

April - 2019

KONKANI

Time: 3 Hours **Max. Marks: 100**

UNIT -I

1) ಸವಾಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ (5×1=5)

ಅ) ಬಿ.ವಿ. ಬಾಳಿಗ ಖಂಚಾ ಪತ್ರಾಚೊ ಸಂಪಾದಕ್ ಜಾವ್ನಾಸ್ಲ್ಲೊ?

ಆ) 'ಸಾಂತಾಕ್ಲೊಸ್' ಕೊಣಾಚೆಂ ಕಾವ್ಯನಾಮ್ ಜಾವ್ನಾಸಾ?

ಇ) ತಾಳ್ಯಾಕ್ ಕವಿ ಕಿತೆಂ ವಿಚಾರ್ತಾ?

ಈ) 'ಅಶೆಂ ಸ್ವಪ್ನಾಂ ಅಶೆಂ ಜೀಣ್' ಕವಿತೆಚೊ ಲೇಖಕ್ ಕೋಣ್?

ಉ) ಖಂಚಾ ದಿಸಾ ಕವಿ ವಿಶೆವ್ ಫೆಂವ್ಕ್ ಅತ್ರೆಗ್ತಾ?

2] ಖಂಚಾಯ್ ದೊನಾಂಕ್ ಜಾಪ್ ಬರಯಾ: (2×5=10)

ಅ) ಅಜ್ ತರ್ ಆಮಿ ಸರ್ವ್ ಶಪಥ್ ಫೆಂವ್ಯಾಂ
ಜಿವಿತ್ ಗಾಂವಾ ಖಾತಿರ್ ಅರ್ಪಿಯಾ
ದೇಶ್ ಮ್ಹಜೊ ಎಕ್ತಾರ್ ಎಕ್ಬೊಟಾನ್ ಭರೊಂ
ಗಾಂವ್ ಮ್ಹಜೊ, ಮೊಗಾ ಮಾಯ್ವಾಸಾನ್ ಪೆಟೊಂ.

ಆ) ಜಾತಿ, ಕಾತಿ, ಭೇದು ಸೋಣ್ಣು
ನೀತಿನ್ ಚಲ್ಕಾ

ಭಾವ್ ಭಯ್ನಿ, ಪ್ರೀತಿ –ಜ್ಯೋತಿ
ಸಗ್ಳ್ಯಾನ್ ಜೋಳೋಕಾ

ಇ) ಆಯ್ಕ್ ಕಾನ್ ದೀವ್ನ್ ಆಯ್ಕ್
ಆತಾಂ ರಡ್ವಾಚೊ ಅವಾಜ್ ಯೆಂವ್ನಾ
ಪಳೆಯ್
ಆತಾಂ ರಡ್ವಾಚೊ ಅವಾಜ್ ಯೆವ್ನಾ

3] ಖಂಚಾಯ್ ದೊನಾಂಕ್ ಜಾಪ್ ಬರಯಾ: (2×5=10)

ಅ) ಕೊಣಾಚ್ಯಾ ಕಾಳ್ಜಾಂತ್ ಪ್ರೀತಿಚೆ ಜ್ಯೋತಿ ಜಳಂವ್ಕ್ ಕವಿ ಉಲೊ ದಿತಾ?

ಆ) ಆಯ್ತಾರಾಚೊ ದೀಸ್ ಕವಿಕ್ ಕಿತ್ಯಾಕ್ ಪ್ರಮುಖ್ ಜಾತಾ ವಿವರ್ಸಿಯಾ?

ಇ) ಕಾನ್ ದೀವ್ನ್ ಕಿತೆಂ ಆಯ್ಕೊಂವ್ಕ್ ಜಾಯ್ ಮ್ಹಣೊನ್ ಕವಿ ಕಾಶೀನಾಥ್ ಸಾಂಗ್ತಾಂ?

4] ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯ್: (ಪರಿಚಯ್ ದಿಯಾ) (1×5=5)

ಅ) ಬಿ.ವಿ. ಬಾಳಿಗ

ಆ) ಕಾಶೀನಾಥ್

UNIT -II

1] ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ: (6×1=6)

ಅ) ಕುಡ್ಮಿ ಸ್ತ್ರೀಯೊಂ ಕಿತೆಂ ನ್ಹೆಸ್ತಾತ್?

ಆ) ಕೊಂಕ್ಣಿ ಉಲೊವ್ಪಿ ಕಿತ್ಲ್ಯಾ ಜಾತಿಚೆ ಆಸಾತ್?

ಇ) ಖಾರ್ವಾಂಚೆಂ ಮುಖ್ಯ್ ಕಸಬ್ ಕಿತೆಂ?

ಈ) ಆಕೃತಿಮಾಂತ್ ಕಿತ್ಲೆಂ ಥರ್ ಆಸಾತ್? ಆನಿಂ ಖಂಚೆ?

ಉ) ಕೊಂಕ್ಣೆಂತ್ ಕಿತ್ಲ್ಯೊ ಉಪಭಾಸ್ ಆಸಾತ್?

ಊ) ಭಾಸ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

Contd...2

2] ಖಂಚಾಯ್ ದೋನ್ ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ: (2×5=10)

ಅ) ಖಂಚಿಯ್ ಏಕ್ ಜಾನಪದ್ ಕಾಣಿ ಬರಯಾ.

ಆ) 'ಕುಡ್ಮಿ ಅನಿ ಬೋಂಟ್' ಹೆ ಆಚರಣ್ ವಿವರ್ಸಿಯಾ?

ಇ) 'ಭಾಸೆಚೆಂ ಸ್ವರೂಪ್' ವಿಲ್ಯಂ ಮಾಡ್ತ ಕಶೆಂ ಕಳಯ್ತಾ?

3] ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ: (1×5=5)

ಅ) ಖಂಚ್ಯೊಯ್ ಪಾಂಚ್ ಹುಮಿಣ್ಯೊ ಬರಯಾ.

ಆ) ಖಂಚ್ಯೊಯ್ ಪಾಂಚ್ ವೊವಿಯೊ ಬರಯಾ.

4] ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ: (ಪರಿಚಯ್ ದಿಯಾ) (1×4=4)

ಅ) ಗೋಪಾಲ್ ಗೌಡ

ಆ) ಸಿರಿಲ್ ಮಾಡ್ತಾ

UNIT -III

1. ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ. (5×1=5)

ಅ) 'ತೀ ತೊ ಆನಿ ಗೇಂಗ್' ಕಾದಂಬರಿಚೊ ಗ್ರಂಥ್ ಕರ್ತ್ ಕೋಣ್?

ಆ) ವಿಗಾರಾಕ್ ಆಯಿಲ್ಲೆಂ ಪತ್ರ್ ಕೊಣಾಚೆಂ?

ಇ) ಬಿಸ್ವಾನ್ ಲ್ಯೂಕಾ ವಿಶಿಂ ವಿಚಾರಣ್ ಕರುಂವ್ಕ್ ಕೊಣಾಕ್ ಆದೇಶ್ ದಿಲ್ಲೊ?

ಈ) ಗ್ಯಾಂಗಚ್ಯಾ ಅತ್ತ್ಯಾಚಾರಕ್ ಒಳಗ್ ಜಾಲ್ಲೊ ಸ್ತ್ರೀಯೊಂ ಕೋಣ್?

ಉ) ವಿಗಾರ್ ಕಶೆಂ ಝುಡ್ತಿ ಕರ್ತಾ?

2. ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ. (2×5=10)

ಅ) ಹ್ಯೂಬರ್ಟ್ ವಡೇರ ಹಾಚೊ ಜಿನೊಸ್, ಕೆಲ್ಲಿಂ ಕರ್ತುಂಬಾ ವಿವರ್ಸಿಯಾ.

ಆ) ವಿಗಾರನ್ ಸತ್ ಸಮ್ಜುಂವ್ಕ್ ಕಾಡ್ಲ್ಲಿ ಮ್ಹಿನತ್ ಕಳಯಾ.

3. ಖಂಚಾಯೀ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ. (1×10=10)

ಅ) ಕಾದಂಬರಿಂತ್ ಜೊ.ಸಾ. ಆಲ್ವಾರಿಸ್ ವಿಗಾರಾ ಮುಖಾಂತ್ರ್ ಸತ್ ಕಶೆಂ ಅನಾವರಣ್ ಕರ್ತಾ?

ಆ) ಲೂಕಾಚಾ ಗ್ಯಾಂಗ ವಿಶಿಂ ಕಳಯಾ.

UNIT -IV

1. ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ. (5×1=5)

ಅ) ಖಂಚಾಯ್ ಎಕಾ ಅನುವಾದಿತ್ ಸಾಹಿತ್ಯಚೆಂ ಉಲ್ಲೇಖ್ ಕರಾ.

ಆ) This is a house → ಹೆಂ ಕೊಂಕ್ಣೆಕ್ ಭಾಶಾಂತರ್ ಕರಾ.

ಇ) ಗಾದ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

ಈ) ಭಾಶಾಂತರಂತ್ ಕಿಶ್ಲಿ ವಿಧಾನಾಂ ಆಸಾತ್?

ಉ) ಭಾಶಾಂತರ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

2. ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ. (3×5=15)

ಅ) ಕೊಂಕ್ಣಿ ಸಂಘಚ್ಯಾ 'ಪರ್ಜಳ್' ಘುಸ್ತಕಾಚ್ಯಾ ಉಗ್ತಾವಣ್ ಕಾರ್ಯಾಚಿಂ ವರ್ದಿ ಬರಯಾ.

ಆ) 'ಪರಿಸರ್ ಸಂರಕ್ಷಣ್ ' ಹ್ಯಾ ವಿಷಯಾಚೆರ್ ಪ್ರಬಂಧ್ ಬರಯಾ.

ಇ) ಕಾಲೇಜಿಚ್ಯಾ ವಾರ್ಷಿಕೋತ್ಸವಚಿ ವರ್ದಿ ಖಂಚಾಯ್ ಎಕಾ ಪತ್ರಾಚ್ಯಾ ಸಂಪದಾಕಕ್ ಬರಯಾ.

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(2016 Batch onwards)

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Reg. No:

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.Sc. - Semester IV - Degree Examination

April – 2019

ADDITIONAL ENGLISH

Time: 3 Hours **Max. Marks: 100**

PART – A
(Prose and Short Stories)

I. Answer the following in about 150 words each: **(5x2=10)**

1. What are the different professions discussed in the short story "The Undertaker"? How does the discussion affect the undertaker?
2. How does Sherlock Holmes and Dr. Watson help a young aristocrat locate his bride in the story Noble Bachelor?

II. Answer the following in about 300 words: **(10x1=10)**

1. Name the characters in the short story "Noble Bachelor" and discuss each character.

PART – B
(Drama)

I. Answer the following in about 150 words: **(5x2=10)**

1. Elucidate on the conflict of motives between Jairaj and Amritlal in the play "Dance like a Man".
2. Give instances from the play "Dance like a Man" where Vishwas feels out of place in the dancer's family.

II. Answer the following in about 300 words: **(10x2=20)**

1. How does Dattani introduce gender identity in the play Dance like a Man?
2. How does Dattani describe the actions and reactions against the act of trespassing the prescribed order of society in the play "Dance like a Man"?

PART – C
(Discursive writing)

I. Answer the following in about 150 words: **(5x2=10)**

1. What are the different reasons to be Naxalites or a Maoist? Justify your answer with reference to walking with the comrades.
2. Write a short note on the functioning of Naxalites in the words of Arundhati Roy.

II. Answer the following in 300 words: **(10x1=10)**

1. Naxalites and Maoists are the internal threat to Indian Society. What are the views proposed by Arundhati Roy in walking with the comrades? Does Arundhati Roy support Naxalites and Maoists or does she just narrate their stories to the reader. Justify.

Contd...2

PART – D
(Grammar and Writing Skills)

I. Write an argumentative essay on: **(1x10=10)**

1. "Society is becoming over regulated".

II. Correct the errors in the given sentences: **(5x1=5)**

a. He is either educated at Bombay or at Madras.
b. He jumped a ten feet wide ditch.
c. We travelled to New York ten years ago.
d. She is a success person and an inspiration for her peers.
e. I want to visit USA one day.

III. Frame questions to get the underlined words as answers: **(5x1=5)**

a. The rabbit has a cage in the garden.
b. Patil was born on 12 June 1990.
c. At the moment, I'm reading a book and drinking iced tea.
d. My daughter is five years old
e. The teacher explains the lesson in front of the class.

IV. Write a review in about 150 words for the movie "Freedom Writers". **(1x5=5)**

V. Mr. Gupta is the chief guest of your college annual day celebration and you are expected to introduce him to the gathering. Write a brief introduction of Mr. Gupta. **(1x5=5)**

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G 150.4

(2016 batch onwards)

Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc. /B.Com. Semester IV – Degree Examination
April – 2019
FRENCH

Time: 3 hrs. **Max Marks: 100**

I. Mettez les verbes suivants au temps qui convient- au présent, passe compose ou l'imparfait : (15)

Quelle surprise ! Miracle d'internet. Je (retrouver) ..... l'adresse de Bertrand sur un site professionnel. Quand je (recevoir) ..... sa dernière lettre, il (vivre) ..... en Ouzbékistan. Aujourd'hui, il (travailler) ..... en Suisse et il (voyager)..... beaucoup. Nous (échanger) ..... des messages. Puis il (venir) ..... à Lyon. Nous (passer) ..... deux belles journées ensemble. Il (arriver)..... par le TCV le matin ; il (faire) ..... très beau. Nous (se promener) ..... dans les vieilles rues du quartier Saint-Jean : il (aimer) beaucoup ..... les traboules, des passages discrets ou nous (s'embrasser) ..... en secret comme autrefois. Nous (s'asseoir) ..... à une terrasse de café ou il me (raconter)..... toutes ces années passées.

II. Complétez avec quel (quelle, etc.) ou lequel (laquelle, etc.) : (5)

1. Allo, tu as trouvé le formulaire ?
   -..... ?
2. -Le formulaire d'inscription, il est sur la table.
   - ....., celle du salon ?
3. Oui, il est avec les dossiers.
   -..... ? Les tiens ou les miens ?
4. Les tiens. Tu les vois ?
   - Je les vois mais le formulaire est dans ..... dossier ?
5. Le rouge, et prendre aussi mes cartes de l'université.
   ..... ? La carte d'étudiant ? Celle de la bibliothèque ?

III. Complétez avec celui (celle).... de, qui, que, où.... (10)

-On regarde un DVD ce soir ? *The Artist* avec Jean Dujardin, ça te va ?
-Jean Dujardin, ... a gagné l'Oscar ?
-Exactement ! ..... joue dans « Un gars, une fille »
-Comment s'appelle l'actrice, ... fait le rôle de Peppy Miller ?
- Bérénice Bejo, ... tu as trouvé excellente dans *Le Passe*.
- Ah oui, ... a un rôle d'espionne.
- Non, c'est ..... il y a Jean Dujardin qui fait un espion français. J'adore les films policiers parodiques.
- Ce sont..... je préfère.
-j'aime particulièrement le film *Le Caire*.
-C'est ..... Matin Scorcese, n'est- ce pas ?
-Les techniques sont ..... Scorcese, mais le film est de Berthier Bunol.
-Alors d'accord pour voir *The Artist ?*
-Si c'est ..... tu veux voir, regardons-le.

IV. Complétez avec « ce qui » ou « ce que » (5)

- Qu'est-ce que tu veux écouter ?
- ..... tu veux.
- Mais dis-moi ..... tu as envie d'écouter. Avec toi, ... est énervant, c'est que tu n'oses pas dire ..... tu penses.
- Alors, on écoute ..... me plait : le dernier Daft Punk.

V. Complétez avec les constructions comparatives : (5)

Ce restaurant est ..... l'autre (+fréquenté)
Il a ..... son frère (= argent)
La natation est ..... le jogging (- fatigant)
Les américains sont ..... les anglais (+ expansif)
Ton ami semble ..... toi (= intelligent)

Contd...2

VI. Complétez avec les pronoms possessifs : (5)

1. J'ai reçu cette valise comme cadeau pour mon anniversaire. C'est .....
2. Ces vêtements sont à eux ? Oui, ce sont .....
3. Vous pouvez utiliser mon ordinateur si ..... ne marche pas.
4. Je vais prendre ta voiture parce que ..... est au garage.
5. Prends ton parapluie parce qu'il va surement oublier .....

VII. Complétez les réponses en utilisant les mots entre parenthèse : (5)

1. Tu connais les autres stagiaires ? (certains)- Oui,.....
2. Ils sont français ? (la plupart)- Oui, ...
3. Il y a des étrangers ? (peu)- Oui, mais .....
4. Tu as pris tes livres d'économie ? (tous)- Oui, ...
5. Tu emportes des romans ? (quelques-uns)- Oui, ...

VIII. Lisez l'article suivant et répondez aux questions : (10)

Second Souffle

Ils étaient dentiste, pharmacien, esthéticienne ou cadre bancaire. Et puis, un jour, ils ont décidé d'abandonner leur carrière pour retourner à l'école. Aujourd'hui, plus d'un instituteur sur dix a commencé sa carrière dans le privé. Enquête sur un phénomène en progression.

Lundi dernier, Valérie, 40 ans, a fait sa première rentrée des classes comme institutrice stagiaire dans la région de Montpellier. Nouvelle vie, nouveau métier. Il y a quatre ans encore, elle était esthéticienne mais son salon « *marchait mal* ». Elle a alors décidé de préparer le concours de professeur des écoles qu'elle a réussi en juin dernier. Valérie n'est pas un cas isolé. Depuis quelques années, de plus en plus de salariés du secteur privé viennent chercher une deuxième carrière dans l'enseignement.

Qu'est-ce qui pousse ces candidats vers ce métier d'instituteur, réputé fatigant et mal payé ? Pour beaucoup, c'est le désir d'en finir avec le stress, l'obligation de résultats financière, les horaires interminables... tous veulent « *reprendre leur vie en main* », ils désirent « *transmettre des valeurs* », « *accompagner les enfants* », « *les ouvrir au monde* » et veulent par-dessus tout, « *se sentir utiles* ». Et la sécurité d'emploi ? Personne ne l'évoque parce que ce n'est pas un argument très noble mais, en ces temps de chômage, elle constitue un avantage évident.

D'après *Le Nouvel Observateur*, 10 Novembre 2015

Questions :

1. Cet article vient de quel journal ?
2. Quelles sont les professions mentionnées dans l'article ?
3. Quel est le nouveau métier de Valérie ?
4. Quel était l'ancien métier de Valérie ?
5. Pourquoi Valérie a quitté son ancien métier ?
6. Quelle est la réputation du métier d'instituteur ?
7. Pour beaucoup, quelle est la raison par-dessus tout pour choisir ce métier ?
8. Quel est l'avantage évident de ce métier ?
9. Citez deux autres raisons que les gens donnent pour choisir le métier d'instituteur ?
10. Quel est votre métier préféré ?

IX. Ecrivez deux dialogues : (20)

1. Vous partez en vacances pour deux mois. Une amie vous demande si vous accepteriez de prêter votre appartement à un de ses cousins. Mais peut-on avoir confiance en lui.
2. Vous avez prêté votre appartement à un(e) ami(e). Quand vous rentrez, vous trouvez : un fauteuil cassé, la plante verte morte, etc. Vous demandez des explications. Votre ami(e) raconte et s'excuse.
3. Avec un(e) ami(e), vous entrez dans un magasin pour acheter un nouveau téléphone portable (ou un nouveau vêtement, etc.). Regardez, commentez, choisissez.

X. Ecrivez deux lettres : (20)

1. Vous venez d'organiser une fête dans votre université. Ecrivez une lettre à votre ami(e) en lui décrivant la fête.
2. Vous venez d'emménager dans un nouvel appartement. Ecrivez une lettre à votre ami(e) en lui décrivant ce logement (les pièces, les meubles etc.)
3. Vous avez été victime d'un accident, d'un vol, d'un incendie ou d'un autre incident. Vous écrivez à votre compagnie d'assurance pour le déclarer.

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G 151.4

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc./B.Com. Semester IV – Degree Examination

April - 2019

MALAYALAM

Time: 3 Hours **Max. Marks: 100**

I രണ്ടെണ്ണം വ്യാഖ്യാനിക്കുക (2 ×5=10)

1 പിൻകാലിൻമേൽ പല്ലുകളാഴ്ത്തി
വലിച്ചുവലിച്ചാഴ്ത്തീടും ഭീതിയോ–
ടിഞ്ചിഞ്ചായ് തോല്ക്കുബോൾ, താഴ്ന്നു
തുടങ്ങുബോൾ–ഓർമ്മിച്ചേൻ നിന്നെ..

2 വരൂ, ഞങ്ങൾ പാടാൻ മറന്നൊരീ ഞങ്ങളിൽ !
വരൂ, ഞങ്ങൾ തേടും പ്രഭാത മാർഗ്ഗങ്ങളിൽ
തിരികെടും ഞങ്ങളുടെ മൺചെരാതുകളിൽ നീ
വരൂ, ഞങ്ങളാം ശൂന്യപാത്രങ്ങളിൽ

3 അടങ്ങി ക്രമാൽ ജയാഹംകൃതി,നിനതനാ–
മരിയിൽക്കണ്ടേൻ, മുറ്റുമീശ്വരമഹത്ത്വത്തെ
തിൻമയെത്തകർക്കാനാം മഴുവേകിയതീശൻ
നന്മതിന്മകൾ നേരായാരറിഞ്ഞിരിക്കുന്നൂ

4 ഒരുനിമിഷം തേങ്ങിക്കരയും
വേഴാബൽ പക്ഷികണക്കെ
മഴനീരിനുമാനം നോക്കി–
യിരുന്നു കാട്ടാളൻ

II രണ്ടെണ്ണത്തിനു കുറിപ്പു തയ്യാറാക്കുക (2 × 5 =10)

5 വള്ളത്തോൾ വി.ടി യിൽ ചെലുത്തിയ സ്വാധീനം

6 പി.എൻ പണിക്കരെ 'ത്യാഗിയായ ദ്രോഹി' എന്ന്
വിശേഷിപ്പിക്കുന്നതെന്തുകൊണ്ട്?

7 എൻ. കൃഷ്ണപിള്ളയുടെ 'ഭഗ്നഭവനം' എന്ന നാടകത്തെക്കുറിച്ചുള്ള
ലേഖകന്റെ സ്മരണകൾ.

III രണ്ടെണ്ണത്തിന് രണ്ടു പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക (2 × 10 =20)

8 ഹിംസയുടെ നിരർത്ഥകതയാണ് 'മഴുവിന്റെ കഥ' എന്ന കവിതയിലൂടെ
കവയിത്രി സമർഥിക്കുവാൻ ശ്രമിക്കുന്നത്–പരിശോധിക്കുക

9 ആസ്തികമായ ഒരു ഹൃദയത്തിന്റെ പശ്ചാത്താപവിവശമായ
ആത്മാർപ്പണമാണ് 'ഗജേന്ദ്രമോക്ഷം' എന്ന കവിതയിലൂടെ സുഗതകുമാരി
നടത്തിയിരിക്കുന്നത്..സമർഥിക്കുക

10 ചൂഷണം ചെയ്യപ്പെടുന്ന അധ:സ്ഥിത വർഗ്ഗത്തിന്റെ പ്രതിനിധിയാണ്
കാട്ടാളൻ.സമർഥിക്കുക

Contd...2

IV ഒരെണ്ണത്തിന് **മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക.** **(2 × 15 =30)**

11 കേശവദേവിന്റെ വ്യക്തിത്വത്തെയും പ്രവർത്തനത്തെയും ലേഖകൻ വിലയിരുത്തുന്നതെങ്ങിനെ ?

12 'ഗ്രന്ഥാലോകം' മാസിക പ്രസിദ്ധീകരിച്ചതെങ്ങിനെ ?

13 'ആശാൻ ജനകീയ കവിയല്ല' എന്ന ഗുപ്തൻനായരുടെ പ്രസ്താവന അന്നത്തെ സാഹിത്യാന്തരീക്ഷത്തിൽ ഉണ്ടാക്കിയ പ്രശ്നങ്ങൾ എന്തെല്ലാം ?

V **ഒരെണ്ണത്തിന് മൂന്നു പുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക** **(1× 15 =15)**

14 'സ്ത്രീജിതനല്ല ശ്രീജിതനാണ് രാവണൻ'- സമർത്ഥിക്കുക

15 മണ്ഡോദരി എന്ന കഥാപാത്രത്തിന് സി.എൻ കൊടുത്ത മിഴിവ് വ്യക്തമാക്കുക

VI **ഒരെണ്ണത്തിന് മൂന്നു പുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക** **(1×15 =15)**

16 കഥയും കാലവും-ഒരവലോകനം

17 മാധ്യമങ്ങളുടെ അതിപ്രസരണം യുവതലമുറയിൽ ചെലുത്തുന്ന സ്വാധീനം

18 നിങ്ങളെ ഏറ്റവും കൂടുതൽ സ്വാധീനിച്ച ഒരു വ്യക്തിത്വം.

19 കാബസ്സ് സെലക്ഷൻ -ഗുണവും ദോഷവും.

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(2014 Batch Onwards)

G 501.4

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

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV– Degree Examination
April - 2019
PHYSICS
ELECTROMAGNETISM, ELECTRICITY II & ELECTRONICS I

Time: 3 hrs. **Max Marks: 100**

SECTION – A

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

1.a) Define potential and give the relation between field and potential.

b) State Gauss theorem.

c) Define permeability of a medium. What is the relation between refractive index and relative permeability?

d) What is normal dispersion?

e) What is power factor? What is its significance?

f) Give the expression for the quality factor of a series 'LCR' circuit. How does the resonant frequency vary with the quality factor?

g) What is a low-pass filter?

h) Define ac and dc forward resistance of a diode.

i) Why is the CE configuration preferred the most?

j) Distinguish between depletion type and enhancement type MOSFETs.

k) What is meant by biasing of a transistor?

l) Define 'Q'point. What is its significance?

SECTION – B

Answer TWO full questions from each unit:

UNIT – I

2. a) Arrive at the equation curl $\vec{E} = \frac{-\overrightarrow{\delta B}}{\delta t}$ starting from Ampere's circuital law. **(6)**

b) State and explain, what is meant by gradient of a scalar field. Give it in Cartesian coordinates. **(4)**

3. a) Arrive at differential form of Faraday's law of electromagnetism. Show that it is incompatible with the equation of continuity. How it is corrected? **(6)**

b) Give the significance of Poynting vector. **(4)**

4. a) Derive the equation of electromagnetic waves and arrive at the expression for the velocity of light in vacuum. **(6)**

b) What is curl of a vector? Express it in Cartesian coordinates. **(4)**

Contd...2

UNIT – II

5. a) Explain with diagram, a series 'LCR' circuit and obtain expressions for the impedance, current and phase angle of the circuit. (6)

   b) Explain a 'RC' high pass circuit with necessary diagrams and obtain an expression for its cut-off frequency. (4)

6. a) Explain with a circuit the half-wave rectifier and obtain expressions for the efficiency, ripple factor and voltage regulation factor for the circuit. (6)

   b) Explain with a circuit the capacitor input filter. (4)

7. a) Explain the star connection in 3-phase ac and obtain the relation between the line voltage and phase voltage. (6)

   b) Mention any four differences between series and parallel LCR circuit. (4)

UNIT – III

8. a) Explain with a circuit, the fixed bias. Mention its advantages and disadvantages. (6)

   b) Define h-parameters of a transistor in CE-mode. (4)

9. a) Describe the construction and operation of a FET. (6)

   b) Compare CB, CE and CC configuration of an amplifier. (4)

10. a) Explain the input and output characteristics of a transistor in CE mode. (6)

    b) Obtain the relation between α and β of a transistor. (4)

SECTION – C

Answer any <u>FOUR</u> of the following: **(4x5=20)**

11. If $\emptyset\,(x,y,z) = x^2y^2 - y^3z^2 + zx^2$, find $\nabla\emptyset$ at the point $(-1,2,1)$.
12. A resistance of 10Ω is connected in series with an inductance of 0.5H and an ac source of 200V, 50Hz. What capacitance should be connected in series with the combination to obtain maximum current?
13. Design a low pass and high pass filter with cut-off frequencies of 1KHz and 5KHz respectively, using a capacitor of 1000pF.
14. A bridge rectifier supplies power to a load resistance of 5KΩ. If the forward resistance of the diodes used is 25Ω, calculate the efficiency of the circuit.
15. A 3-phase delta configuration has a phase voltage of 250V. If it supplies power to a resistive load of 1MΩ. Find the line voltage, line and phase currents and the power delivered to the load.
16. For a transistor with voltage divider bias, obtain the operating point using the data. $R_1 = 40K\Omega, R_2 = 14K\Omega, R_c = 10K\Omega, R_E = 1K\Omega, V_{cc} = 22V$ and $V_{BE} = 0.7V$.

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2014 batch onwards

G 502.4 Reg. No.

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

April – 2019

CHEMISTRY- PAPER IV

Time: 3 hrs. **Max Marks: 100**

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

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

(10x2=20)

1. a) State first law of Thermodynamics.
   b) Define Gibb's free energy.
   c) What is meant by Entropy? Give its S I unit.
   d) What are Ligands? Give an example.
   e) What is EAN?
   f) Defne crystal field stabilization energy.
   g) What are electrophiles? Give an example.
   h) Explain elimination reaction with an example.
   i) What is Wittig reaction? Give an example.
   j) What are photosensitizers? Give an example.
   k) Define quantum yield.
   l) State Grothus-Draper law.

PART – B

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

(10x3=30)

2. i) Calculate the efficiency of a heat engine working between 298K and 383K.
   ii) Write a note on thermodynamic scale of temperature.
   iii) Derive the expression for Δs during mixing of ideal gases.
   iv) Explain ionisation isomerism with an example.
   v) Write a note on spectro chemical series.
   vi) Calculate the crystal field stabilisation energy of d^6 system of tetrahedral complex.
   vii) Explain Michael addition reaction with an example.
   viii) Explain the mechanism of Wolf-Kischner reduction.

Contd...2

ix) Give the mechanism of Claisen reaction.

x) Give any three differences between photochemical and thermochemical reactions.

xi) Write a note on fluorescence.

xii) Explain primary and secondary processes in photochemistry.

PART – C

Answer any TEN of the following questions **(10x5=50)**

3. Derive Kirchoff's equation.
4. Derive the expression for the efficiency of Carnot's engine.
5. Prove that entropy is a state function.
6. Explain factors affecting stability of complexes.
7. Discuss the crystal field splitting of d-orbitals in the case of octahedral complexes.
8. Explain the factors affecting crystal field splitting.
9. Explain the mechanism of Canizzaro reaction.
10. Give the mechanism of reduction reaction using $LiAlH_4$.
11. Give the mechanism of Aldol condensation.
12. Using Jablonski diagram explain fluorescence and phosphorescence.
13. What are the reasons for very high and very low quantum yield in photochemical reactions.
14. What is photosensitization and explain the mechanism.

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(2014 Batch onwards)

G 503.4 Reg. No:

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

April - 2019

MATHEMATICS

Functions of a Complex Variable, Number Theory, Group Theory and Real Analysis

Time: 3 Hours **Max. Marks: 100**

Note: Answer all parts

PART – A

Answer any TEN of the following. **(10×2½=25)**

1. Find the singular points of $\frac{z^3+i}{z(z^2-3z+2)}$.
2. Show that $f(z)=\bar{z}$ is nowhere analytic.
3. Show that $f(z)=z^2$ is an entire function.
4. Prove that the Fibonacci number U_{mn} is divisible by U_m.
5. Find the rational number represented by $[4; 2, 1, 3, 6]$.
6. If x, y, z is a primitive Pythagorean triple, then prove that one of the integers x, y is even and the other is odd.
7. If $\phi: G \to G'$ is a homomorphism, prove that $\phi(e)=e'$.
8. Prove that $\phi: Z \to Z$ defined by $\phi(n)=-n$ is an automorphism.
9. Express the permutation $\sigma=(1\,2\,3)(2\,4\,6\,8)(1\,3\,7\,9)$ as a product of transpositions.
10. Test the convergence of the series $\sum_{n=1}^{\infty}\left(\frac{3}{2^n}-\frac{2}{3^n}\right)$.
11. If $\sum_{n=1}^{\infty}U_n$ is convergent, then prove that $\lim_{n\to\infty} U_n=0$.
12. Determine if the sequence $\left\{\frac{1-2n^2}{n^2}\right\}$ is increasing or decresing.
13. Test the convergence of $\sum_{n=1}^{\infty}\frac{1}{[\log(n+1)]^n}$.
14. State the root test.
15. Determine if the series $\sum_{n=1}^{\infty}\frac{\cos\frac{1}{3}n\pi}{n^2}$ is convergent.

Contd....2

PART – B

UNIT - I

Answer any THREE of the following. (3×5=15)

1. Suppose $f(z)=u(x,y)+iv(x,y)$ and $f'(z_0)$ exists at a point $z_0=x_0+iy_0$ then show that the first order partial derivatives of u and v with respect to x and y exists at z_0 and they must satisfy C-R equations at that point.
2. Show that $\lim_{z\to\infty}\frac{2z^3-1}{z^2+1}=\infty$.
3. Using $\in-\delta$ definition prove that $\lim_{z\to 1}\frac{iz}{2}=\frac{i}{2}$ in some open disc $|z|<1$.
4. Find the harmonic conjugate of $u(x,y)=y^3-3x^2y$.
5. If $f(z)=r^{-7}e^{-i7\theta}$, find $f'(z)$ using polar co-ordinates and also express $f'(z)$ interms of Z.

UNIT - II

Answer any THREE of the following. (3×5=15)

1. If $n=1$ and $g.c.d(a,n)=1$ then prove that $a^{\phi(n)}\equiv 1(\mathrm{mod}\, n)$.
2. Prove that the radius of the inscribed circle of a Pythagorean triangle is always an integer.
3. If $m=qn+r$ then prove that $g.c.d(u_m,u_n)=g.c.d(u_r,u_n)$.
4. Express $\frac{118}{303}$ as a simple finite continued fraction.
5. If $C_k=\frac{p_k}{q_k}$ is the k^{th} convergent of the simple continued fraction $[a_0;a_1,.....,a_n]$ then prove that $p_kq_{k-1}-q_kp_{k-1}=(-1)^{k-1}, 1\le k\le n$.

UNIT - III

Answer any THREE of the following. (3×5=15)

1. Define a normal subgroup. Prove that a subgroup is a normal subgroup if and only if product of any two right cosets is a right coset.
2. If H and K are normal subgroups of a group G. Prove that $H\cap K$ is a normal subgroup of G.
3. Define the kernel of a group homomorphism. Prove that kernel is a normal subgroup.
4. Prove that S_n has a normal subgroup of index 2, the alternating group A_n of even permutations.
5. Find $a^{-1}ba$, if $a=(3\,5\,7\,1)$, $b=(2\,4\,6\,8\,9)$ and express it as a product of transpositions.

Contd...3

UNIT - IV

Answer any THREE of the following. **(3×5=15)**

1. If $|r|<1$, then prove that $\{r^n\}$ converges to 0.
2. If a montonically increasing sequence is bounded above then prove that it converges.
3. Prove that the series $\sum_{n=1}^{\infty} \frac{1}{n!}$ converges.
4. State and prove the integral test.
5. Test the convergence of the following:

   i) $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n^2+4n}}$ ii) $\sum_{n=1}^{\infty} ne^{-n}$.

UNIT - V

Answer any TWO of the following. **(7½x2=15)**

1. State and prove Leibniz's test for convergence of an alternating series.
2. Test the convergence of the following series

   i) $\sum_{n=1}^{\infty} (-1)^n \frac{3^n}{n^2}$ ii) $\sum_{n=1}^{\infty} (-1)^{n+1} \frac{\log n}{n^2}$ iii) $\sum_{n=1}^{\infty} \frac{\sin \pi n}{n}$.

3. If $\lim \left|\frac{u_{n+1}}{u_n}\right| = L$ for an infinite series $\sum_{n=1}^{\infty} u_n$, $u_n \neq 0$ for all n, then prove that the series is convergent if $L<1$, is divergent if $L>1$ and the test fails when $L=1$.

4. Determine if the following series are absolutely convergent, conditionally convergent or divergent.

   i) $\sum_{n=1}^{\infty} \frac{n^2}{n!}$ ii) $\sum_{n=1}^{\infty} (-1)^n \frac{3^{2n+1}}{n^{2n}}$ iii) $\sum_{n=1}^{\infty} (-1)^n \frac{n!}{2^{n+1}}$.

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G 504.4

(2015 batch onwards)

Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester IV– Degree Examination

April- 2019

ELECTRONICS

Breakdown Devices, power Amplifiers, fundamentals of Electronic communication and digital computers

Time: 3 Hours **Max. Marks: 100**

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 **(12×1=12)**

i) _____ is one semiconductor device that allows ac in both directions.

a) SCR b) Diode c) Diac d) All of these

ii) The maximum efficiency of class A amplifier is _____

a) 25% b) 78.5% c) 90% d) 50%

iii) _____ is an audio amplifier IC.

a)LM317 b) LM 380 c) CD4011 d) LM 741

iv) The number of reflectors present in an Yagi- Uda antenna is _____

a) 1 b) 2 3) 3 d)7

v) Over modulation in AM occurs when

a) $m_a=0$ b)$m_a=1$ c) $m_a > 1$ d) $m_a = 0.5$

vi) Signal in the UHF range usually propagates by means of

a)ground waves b) skywaves c) space waves d) none of these

vii) _____ is a volatile memory

a) CDROM b) Hard disk c) RAM d)Pendrive

viii) At high frequency, the characteristic impedance of a transmission line is _____

a) $Z = \sqrt{\frac{R}{G}}$ b) $Z = \sqrt{\frac{C}{L}}$ c) $Z = \sqrt{\frac{R}{G}}$ d) $Z = \sqrt{\frac{L}{C}}$

ix) In AM, maximum power saving is achieved in _____

a) SSBTC b) SSBSC c) DSBTC d) DSBSC

x) The ionospheric layer that exists during night is _____

a) D b) F_1 c) E d) F_2

xi) If the carrier wave amplitude is 5V and modulating signal amplitude is 2V, then the percentage modulation of AM wave is

a) 40% b) 42.85% c) 250% d) 25%

xii) _____ is used as storage element in dynamic RAM cell

a) MOSFET b) BJT c) Inductor d) Capacitor

Contd...2

2. Answer any TEN of the following **(10×1=10)**

i) Give the equation for characteristic impedance of a coaxial cable.

ii) Define skip distance.

iii) Define breakover voltage with reference to a SCR.

iv) Write the symbol of SCR.

v) Mention any one advantage of FM over AM.

vi) Mention any two characteristics of memory.

vii) Mention any one characteristics of transmission line at high frequencies.

viii) Define phase modulation.

ix) Define efficiency of a power amplifier.

x) Define load regulation of a voltage regulator

xi) What is meant by cross over distortion?

xii) What is Microprocessor?

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

i) Explain how a ON SCR can be switched OFF?

ii) Mention any four applications of TRIAC.

iii) What is the need for AGC in radio receiver?

iv) Define reflection co-efficient and SWR of a transmission line.

v) With example explain IC 79XX.

vi) Define pre-emphasis and de-emphasis.

vii) Differentiate between volatile and non-volatile memory.

viii) Calculate the percentage power saved in a SSBSC system when the carrier is modulated to a depth of 80%.

ix) Calculate the characteristics impedance of transmission line, if its inductance is $100\mu H/m$ and capacitance is 7nF/m.

x) Draw the block diagram of a microprocessor.

xi) Define the terms i) beam width ii) bandwidth with respect to antenna.

xii) Draw equivalent circuit of SCR and explain.

Section – B

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

i) Derive the expression for the instantaneous voltage of FM wave with relevent diagrams.

ii) Calculate the radiated power and resistance of $\lambda/2$ antenna excited by a current of 5A.

iii) List the characteristics of IC LM 317. Explain how this can be used as a adjustable positive voltage regulator.

Contd...3

iv) An AM wave is represented by the expression

$v_{FM} = 5\sin[2.11 \times 10^6 t + 20 \sin 6.28 \times 10^3 t)$

Calculate :

i) Modulating frequency
ii) Carrier frequency
iii) Modulation index
iv) Maximum deviation

v) Explain the working of DRAM.

vi) Explain the V-I characteristics of DIAC.

vii) Explain how TRIAC be used to control power in ac circuits.

viii) With circuit diagram explain the working of class A resistive load power amplifier. Calculate its maximum efficiency.

ix) Explain how the ratio detector limits the amplitude of the received signal.

x) Write a note on evolution of micro processors.

Section – C

Answer any THREE full questions

5. a) With diagram and waveform explain V-I characteristic of SCR. **(5)**
   b) With circuit diagram explain any one type of class B push pull amplifier. **(5)**
6. a) Write the block diagram of SMPS and explain. **(5)**
   b) An unmodulated carrier has amplitude of 10V, and the amplitude of modulating signal is 2V. If the carrier power is 1000W, calculate the total power and the power carried by the side bands. **(5)**
7. a) With necessary diagram explain the architecture of a typical microprocessor. **(5)**
   b) Draw the circuit diagram of a Zener shunt regulator and explain its working. **(5)**
8. a) Explain different modes of radio wave propagation. **(5)**
   b) With necessary circuit diagram explain how read operation performed in a 4x4 diode ROM. **(5)**

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G505.4

(2015 Batch onwards)

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

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
April - 2019
COMPUTER SCIENCE – Paper IV
JAVA PROGRAMMING

Time: 3 Hours. **Max Marks: 100**

PART –A

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

a) How is Java strongly associated with the Internet?

b) What is meant by type casting? Give example.

c) Write the difference between break and continue.

d) What is visibility control?

e) What is vector? How is it different from an array?

f) What is meant by reusability?

g) Write the use of interface in Java.

h) Distinguish between String and StringBuffer classes.

i) What is exception?

j) What are abstract classes?

k) Name any four API packages.

l) Differentiate local and remote applets.

PART – B

Answer any ONE full question from each unit. **(4X20=80)**

Unit I

2. a) What is token? Explain different tokens supported by Java. **(6)**

b) What are command line arguments? How are they useful in Java? **(5)**

c) Explain the tools of JDK. **(5)**

d) Enumerate the rules for creating identifiers. **(4)**

3. a) Explain the following operators in Java.

i) arithmetic ii) relational

iii) logical iv) increment and decrement **(8)**

b) Explain the differences between C and Java. **(4)**

c) Write a note on Java Virtual Machine. **(4)**

d) Explain switch statement with example. **(4)**

Unit II

4. a) Explain different levels of access modifiers in Java. **(6)**

b) What are static members and methods? Explain with suitable example. **(5)**

c) Explain method overriding with example. **(5)**

d) What is constructor? Explain with an example. **(4)**

Contd...2

5. a) Explain the use of final variables, final classes and finalizer method. (6)

b) What is inheritance? How do you define a subclass in Java? Explain with syntax and example. (6)

c) What is class? Explain the basic format of class definition. (4)

d) Write a note on abstract classes and methods. (4)

Unit III

6. a) What is an interface? Explain different forms of interface implementation with example. (6)

b) Explain the method of declaring, creating and using a two-dimensional array. (5)

c) Explain the following methods of string class.

i) replace() ii) substring() iii) indexOf()

iv) setcharAt() v) append() (5)

d) What are packages? List the benefits of packages. (4)

7. a) Explain any six vector methods with example. (6)

b) What are similarities and differences between interfaces and classes? (5)

c) What are wrapper classes? Explain with examples. (5)

d) Write a note on extending an interface. (4)

Unit IV

8. a) What is a thread? Explain difference between multithreading and multiprocessing. (5)

b) Explain the use of try and catch blocks. (5)

c) How do applets differ from application programs? (5)

d) Explain the types of errors with example. (5)

9. a) Explain the thread life cycle with a state transition diagram. (6)

b) Explain the steps involved in developing and running a local applet. (6)

c) How do you set priorities for threads? Explain. (4)

d) What is finally block? Explain with example. (4)

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G 506.4

(2016 Batch onwards)

Reg. No:

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

April 2019

STATISTICS

Statistical Inference -II

Time: 3 Hours **Max. Marks: 100**

Note: Answer all parts

PART – A

1 **Answer any TWELVE of the following.** **(2x12=24)**

a. Explain the terms simple and composite hypothesis.

b. Define type I error in testing of hypothesis.

c. What is meant by level of significance?

d. When do you say that a test procedure is unbiased?

e. State Neyman Pearson lemma.

f. State any two properties of likelihood ratio test procedure.

g. Briefly explain the large sample test procedure for testing the proportion of success in a single population.

h. Describe the test for the variance of a normal population when the mean is unknown.

i. Explain 't' test for testing the presence of correlation in a Bivariate distribution.

j. State any two advantages of sequential testing procedure.

k. Write down the approximate expressions for the constants A and B in SPRT.

l. State any one merit and demerit of non parametric over parametric methods.

m. What are the assumptions made in non parametric methods?

n. What do you mean by 'Run' in Run test?

o. Write down the expressions for the mean and variance of the statistic R, the total number of runs of X and Y in Run test for testing the equality of median of two populations.

PART – B

Answer any SIX of the following. **(6x6=36)**

2. Find an MP test of size α to test $H_0: f(x) = 4x, \quad 0 < x < ½ \quad and \quad = 4 - 4x,$ $½ \leq \times < 1$ against $H_1: f(x) = 1$ if $0 < x < 1$, based on a sample of size 1. Also find its power.

3. Let $x_1, x_2, \ldots . x_n$ is a random sample from $U(0, \theta)$ distribution. Derive a B.C.R for testing $H_0: \theta = \theta_0$ against $H_1: \theta = \theta_1 (> \theta_0)$.

4. Explain likelihood ratio test procedure.

5. Describe the theory of large sample test procedure, stating clearly the approximation involved.

Contd...2

6. Describe the theory of large sample test for testing $H_0: \rho_1 = \rho_2$ where ρ_1 and ρ_2 are the correlation coefficients between the variates in two independent Bivariate normal populations.

7. Derive the sequential probability ratio test procedure for testing $H_0: p = p_0$ against $H_1: p = p_1 (> p_0)$ where p is the proportion of success in a Bernoulli trial.

8. Two samples of sizes N_1 and N_2 have respective frequencies $f_1, f_2, \ldots f_n$ and $f_1', f_2', \ldots f_n'$ under the same headings. Show that Chi-square for such a distribution is $x^2 = \sum_{r=1}^{n} \frac{N_1 N_2}{f_r + f_{r'}} \left[\frac{f_r}{N_1} - \frac{f_{r'}}{N_2}\right]^2$

9. Describe the Chi-square test of goodness of fit. How do you decide the degrees of freedom of the test statistic?

10. Describe the non parametric test for the case of two related samples. Derive the distribution of the test statistic.

PART – C

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

11 a) Let $x_1, x_2, \ldots x_n$ is a random sample from $P(\theta)$ distribution. Derive a B.C.R for testing $H_0: \theta = \theta_0$ against $H_1: \theta = \theta_1 (< \theta_0)$. What is the null distribution of the test statistic. Is it possible to have a critical region of exact size α ? Justify?

12. a) Explain 't' test for paired samples. (5)

b) Describe Chi square test of independence of attributes. (5)

13. Derive the likelihood ratio test for testing $H_0: \mu_1 = \mu_2$, against $H_1: \mu_1 \neq \mu_2$ where μ_1 and μ_2 are the means of two independent normal populations with unknown but equal variances.

14. a) Describe the large sample test procedure for testing the equality of proportions of two independent populations. (5)

b) Write a note on Yate's correction for continuity. (5)

15. Derive SPRT procedure for testing $H_0: \sigma^2 = \sigma_0^2$ against $H_1: \sigma^2 = \sigma_1^2$ where σ^2 is the variance of a normal population with known mean μ_0. Also write down the equations of acceptance line and rejection line.

16. Describe the run test for testing the equality medians of two continuous populations. Also derive the null distribution of the test statistic.

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(2014 Batch onwards)

G 507.4

Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
April -2019
BOTANY
Plant Systematic and Commercial Botany

Time: 3 hrs. **Max Marks: 100**

Note: i) Answer all the questions
ii) Draw diagrams wherever necessary

SECTION- A

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

1. Mention the contribution of Karl von Linnaeus to plant systematics.
2. What is arboretum? Mention its importance.
3. Expand ICBN. Write any two of its guidelines.
4. Mention the features of inflorescence of Apiaceae.
5. What is Eterio of berries? Mention the family in which it is characteristically found?
6. What is epicalyx and schizocarpic fruit?
7. What is pappus? In which family it is found ?
8. What is gynobasic style? Mention the family in which it is seen?
9. What are pollinia? Name the family in which it is seen?
10. Write the economic importance of vanilla. Mention the botanical name, family and part used.
11. Mention the botanical names of any two narcotic plants.
12. Mention the botanical name, family, part used and therapeutic use of sarpagandha.

SECTION – B

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

1. Write notes on national and international herbaria.
2. Give the salient features of Engler and Prantle system of classification.
3. List out the salient features of Cruciferae.
4. Write short notes on stamens of Cucurbitaceae.
5. Explain any five diagnostic characters of family Scrophulariaceae.
6. Write short notes on infloresence of Musaceae
7. What are cereals and millets? Write the botanical names and common names of any four.
8. Explain the extraction of sugar from sugarcane.

Contd...2

SECTION – C

III. Answer any FIVE of the following. **(5×10=50)**

1. Give the outline, merits and demerits of Bentham and Hooker's system of classification.
2. Write notes on a) Cytotaxonomy b) Molecular taxonomy
3. Describe the salient features of family Papilionaceae. Give two examples.
4. Describe the salient features of Anacardiaceae. Add a note on any two economically important plants.
5. Describe the diagnostic characters of family Solanaceae. Write the botanical names of any five economically important plants.
6. Write short notes on the following
   a) Orchid flower
   b) Cyathium inflorescence
   c) Spikelet
   d) Follicle
7. Explain the extraction of fiber from jute and coir from coconut.
8. Write the botanical name, family, part used and economic importance of any five spices.

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(2014 Batch onwards)

G 508.4

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

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

April - 2019

ZOOLOGY

CELL & MOLECULAR BIOLOGY AND GENETICS

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)**

a) State any two functions of Endoplasmic reticulum.

b) Draw a neat labeled diagram of leptotene stage of meiosis -1.

c) Define oncogenes. Mention the types.

d) What is complementary base pairing?

e) What are split genes?

f) Explain point mutation.

g) What is test cross? Give an example.

h) What are complementary genes? Give an example.

i) Explain pleiotropism with example.

j) Give the significance of linkage.

k) Write a note on human genome project.

l) Explain the term Gynandromorphy.

PART – B

Select ONE full question from each unit.

Unit I

II. a) With neat diagram describe the fluid mosaic model of plasma membrane. **(10)**

b) What are mitotic inhibitors? Explain the applications. **(5)**

c) Write explanatory note on cancer and immunology. **(5)**

OR

III. a) Enumerate the differences between mitosis and meiosis. **(10)**

b) Give an account of biological carcinogens. **(5)**

c) Explain the structure of mitochondria. **(5)**

Contd...2

Unit II

IV. a) Give an account of DNA replication. **(10)**

b) Explain the fine structure of gene. **(5)**

c) Describe lac operon concept. **(5)**

OR

V. a) Explain the molecular basis of mutation. **(10)**

b) Write a note on redundant DNA. **(5)**

c) Explain the clover leaf model of t-RNA. **(5)**

Unit III

VI. a) What is dihybrid cross? Explain the dihybrid cross in animals. **(10)**

b) Explain interaction of genes with reference to comb pattern in fowls. **(5)**

c) Write explanatory note on Erythroblastosis foetalis. **(5)**

OR

VII. a) What is recessive epistasis? Explain with an example. **(10)**

b) Write short notes on heredity and variation. **(5)**

c) Write a note on polygenic inheritance with reference to eye colour in human. **(5)**

Unit IV

VIII a) Explain incomplete linkage in *Drosaphila*. **(10)**

b) What is sex-linked inheritance? Explain briefly haemophilia in humans. **(5)**

c) Describe amniocentesis. **(5)**

OR

IX. a) Give an account of chromosomal methods of sex determination. **(10)**

b) Write short notes on – i) Turner's syndrome

ii) Sickle cell anemia **(5)**

c) Explain sex limited traits with examples. **(5)**

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(2014 batch onwards)

G 509.4

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

St Aloysius College (Autonomous)

Mangaluru

B.Sc. - Semester IV – Degree Examination

April 2019

MICROBIOLOGY

Microbial Ecology and Environmental Microbiology

Time: 3 hrs. **Max Marks: 100**

Instructions: Draw Diagrams wherever necessary.
Answer Questions from Part -A, B and C.

PART – A

1. **Define/Answer any TEN of the following:** **(2x10=20)**

a) Allochthonous population
b) Prebiotic
c) Microbiome
d) Neuston
e) Droplet nuclei
f) Impingement
g) Legionellosis
h) Break point chlorination
i) EMB
j) Rhizoplane
k) Ericoid mycorrhiza
l) FISH

PART – B

Answer 'a' or 'b' and 'c' is compulsory from each unit. **(15x4=60)**

UNIT - I

2. a) Explain the types and process of microbial succession.

OR

2. b) What are probiotic organisms? Explain the beneficial properties of probiotics. **(9)**

2. c) Write a note on functions of marine microflora. **(6)**

UNIT – II

3. a) Describe any in brief the types of air samplers.

OR

3. b) Discuss bacterial air borne infections. **(9)**

3. c) Give a brief account of biological safety cabinets. **(6)**

Contd...2

UNIT - III

4. a) Explain the secondary water treatment process.

OR

4. b) Discuss water borne infections. **(9)**

4. c) Write a note on water examination by MPN method. **(6)**

UNIT - IV

5. a) Explain the various types of interactions among microorganisms in soil.

OR

5. b) What is a rhizosphere? Explain the role of microorganisms in rhizosphere. **(9)**

5. c) Write on the use of radioisotopes in measurement of microbial activity. **(6)**

PART - C

Answer any FOUR of the following. **(5x4=20)**

6. a) Rumen Microorganisms.

b) Lentic Habitat.

c) Distribution of microbes in air.

d) Imhoff tank.

e) Endomycorrhiza.

f) Green fluorescent protein.

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G 510.4

(2013 batch onwards)

Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV– Degree Examination
April 2019
BIOCHEMISTRY
Metabolism

Time: 3 Hours **Max. Marks: 100**

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

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

1. a) What is the role of radioactive isotopes to study Metabolism?
   b) Write the fates of pyruvate.
   c) Mention the energy utilization steps in Glycolysis.
   d) Define photosynthesis.
   e) What is oxidative phosphorylation? Mention its uncouplers.
   f) What are ketone bodies? Mention the significance of it.
   g) What are the differences between transamination & oxidative deamination?
   h) Explain the colour reaction of RNA.
   i) Mention the sources of the atoms in purine.
   j) What are bile pigments?
   k) Write the function of nitrogenase.
   l) What is the gout? Mention its causes.

PART – B

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

2. Explain the steps involved in glycolysis.
3. Explain Cori cycle and give its significance.
4. Explain non cyclic photophosphorylation.
5. Write the mechanism of ATP synthesis.
6. What is β-oxidation? Mention the steps involved in it.
7. Write a note on salvage pathway of purines.
8. Explain the classification and nomenclature of porphyrins.
9. Write a note on restriction endonucleases.

PART -C

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

10. Explain denovo synthesis of purine.
11. Explain the degradation process of pyrimidine.
12. Explain the biosynthesis of fatty acids.
13. Explain Electron transport chain in details.
14. Describe TCA cycle and give its significance.
15. Explain biosynthesis of porphyrin.
16. Explain Glycogen metabolism.

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(2014 batch onwards)

G 511.4 Reg. No.

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

April · 2019

BIOTECHNOLOGY
Molecular Biology and Recombinant DNA Technology

Time: 3 hrs. **Max Marks: 100**

Note: i) Answer all the questions
ii) Draw diagrams wherever necessary

PART - A

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

1.a) Define recon.

b) Expand IPTG. Where is it used?

c) Write two properties of exons.

d) List the termination codons.

e) Comment on ligases.

f) List any two uses of cosmids.

g) Differentiate between conservative and dispersive DNA replication.

h) What is the role of $CaCl_2$ in gene cloning?

i) Give any two uses of interferons.

j) Define transduction.

k) What is a poly A tail?

l) Comment on trade mark.

PART – B

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

2. Give an account on transposons.
3. Describe the fine structure of Eukaryotic genes.
4. Give an account of transcription in prokaryotes.
5. Explain the process of gene regulation in lac operon.
6. Write about the mechanism of isolation of DNA from plant cells.
7. What is shot gun method? Where is it applied in genetic engineering?
8. Describe the principle and procedure of Western blotting technique.
9. Give an account of recombinant vaccines.

Contd...2

PART – C

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

10. Explain Harshey and chase experiment.

11. Describe the mechanism of replication in Eukaryotes.

12. Give an account on patenting.

13. Explain gene therapy.

14. What are restriction enzymes? Explain their role in genetic engineering.

15. Write an account on purification of plasmid DNA by anion exchange resins.

16. Explain the post translational modification of DNA in Eukaryotes.

17. Explain the significance of RNA splicing.

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(2016 Batch Onwards)

G 513.4

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

St Aloysius College (Autonomous)

Mangaluru

B.Sc. - SEMESTER IV – Degree Examination

April - 2019

ECONOMICS

INTERNATIONAL TRADE AND PUBLIC FINANCE

Time: 3 hrs. **Max Marks: 100**

PART - A

Answer any FOUR of the following questions in about 10 sentences each. **(4×5=20)**

1. Write a note on global trading environment.
2. Write a note on technological gap theory of international trade.
3. What is Quota?
4. Write a note on MNCs.
5. Distinguish between public goods and private goods.
6. What are the objectives of fiscal policy?

PART – B

Answer any FOUR of the following questions in about 20 sentences each. **(4×10=40)**

7. Distinguish between internal and international trade.
8. Explain the Factor-Endowment Theory of international trade.
9. Define tariff. Explain its types.
10. Discuss the arguments for and against the free trade policy.
11. Explain the canons of taxation.
12. Explain the various components of budget.

PART – C

Answer any TWO of the following questions in about 50 to 60 sentences each. **(2×20=40)**

13. Explain the Comparative Cost Theory of international trade. What are its criticisms?
14. Define balance of payments. Describe the various methods of correcting disequilibrium in the balance of payments.
15. Distinguish between direct and indirect tax. Explain their merits and demerits.
16. What is public debt? Explain the various types of public debt.

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(2016 Batch onwards)

G 701.4

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc./B.C.A. - Semester IV – Degree Examination

April - 2019

FOUNDATION COURSE IN HUMAN RIGHTS AND VALUE EDUCATION

Time: 3 Hours **Max. Marks: 100**

PART – A

HUMAN RIGHTS

I. Answer all the following questions in three sentences each. Each question carries one mark: **(1x5=5)**

ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳನ್ನು ಮೂರು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪಶ್ನೆಗೂ ಒಂದು ಅಂಕಗಳು.

1. Define human rights.
   ಮಾನವ ಹಕ್ಕನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ.
2. In which year the International Labour Organization came into existence?
   ಅಂತರಾಷ್ಟ್ರೀಯ ಕಾರ್ಮಿಕ ಸಂಸ್ಥೆಯು ಯಾವ ವರ್ಷದಲ್ಲಿ ಜಾರಿಗೆ ಬಂತು?
3. Name two awards received by Amnesty International.
   ಅಂತರಾಷ್ಟ್ರೀಯ ಕ್ಷಮಾದಾನ ಸಂಸ್ಥೆಗೆ ದೊರಕಿದ ಎರಡು ಪ್ರಶಸ್ತಿಗಳನ್ನು ಹೆಸರಿಸಿರಿ.
4. Which day is celebrated as consumer's day in India?
   ಭಾರತದಲ್ಲಿ ಯಾವ ದಿನವನ್ನು ಗ್ರಾಹಕರ ದಿನವೆಂದು ಆಚರಿಸಲಾಗುತ್ತದೆ?
5. Who can be appointed as chairman of NHRC and what is the term of its office?
   ರಾಷ್ಟ್ರೀಯ ಮಾನವ ಹಕ್ಕುಗಳ ಆಯೋಗದ ಅಧ್ಯಕ್ಷರನ್ನಾಗಿ ಯಾರನ್ನು ಆಯ್ಕೆ ಮಾಡಬಹುದು ಮತ್ತು ಅವರ ಅಧಿಕಾರವಧಿ ಎಷ್ಟು?

II. Answer any FIVE questions in about a paragraph. Each question carries 3 marks: **(3x5=15)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ವಾಕ್ಯಖಂಡದೊಳಗೆ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 3 ಅಂಕಗಳು.

6. For conducting Asian Games in 1982, the Central government began several projects necessary for conducting various games. It handed over the construction work to various contractors, who paid very lowest wages for the workers, which were not sufficient even for food. The petitioner society moved a Public Interest Litigation against central government alleging that it was exploiting the labour by paying them low wages. The Supreme Court agreed with the contention of the petitioner society and ordered the defendants to enhance wages. It held that the non payment of minimum wages to the workers was a denial of their right to live with basic human dignity.

   i) Justify the judgement of Supreme Court.

   ii) Which article of the Indian Constitution enumerates the right to live with human dignity?

   1982ರಲ್ಲಿ ಏಷಿಯಾಡ್ ಗೇಮ್ ನಡೆಸುವ ಸಲುವಾಗಿ ಕೇಂದ್ರ ಸರಕಾರವು ಹಲವಾರು ಯೋಜನೆಗಳನ್ನು ನಿರೂಪಿಸಿತ್ತು. ಇವುಗಳನ್ನು ಕಾರ್ಯಗತ ಗೊಳಿಸುವ ಸಲುವಾಗಿ ಕೇಂದ್ರ ಸರಕಾರವು ಈ ಯೋಜನೆಗಳನ್ನು ಹಲವಾರು ಗುತ್ತಿಗೆದಾರರಿಗೆ ಹಸ್ತಾಂತರಿಸಿತು. ಆದರೆ ಈ ಗುತ್ತಿಗೆದಾರರು ತಮ್ಮ ಕೆಲಸಗಾರರಿಗೆ ಅತೀ ಕಡಿಮೆ ವೇತನ

Contd...2

ನೀಡುತ್ತಿದ್ದರು. ಈ ವೇತನವು ಅವರ ಆಹಾರಕ್ಕೂ ಸಾಕಾಗುತ್ತಿರಲ್ಲಿಲ್ಲ. ಕೆಲಸಗಾರರಿಗೆ ಕಡಿಮೆ ವೇತನ ನೀಡುವುದನ್ನು ವಿರೋಧಿಸಿ ಮನವಿದಾರರ ಸಂಘ ಕೇಂದ್ರ ಸರಕಾರದ ವಿರುದ್ಧ ಮೊಕದ್ದಮೆ ಹೂಡಿತು.

ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಲಯವು ತೀರ್ಪನ್ನು ಕೆಲಸಗಾರರ ಪರವಾಗಿ ನೀಡಿ ಅವರ ವೇತನವನ್ನು ಹೆಚ್ಚಿಸುವಂತೆ ಆಜ್ಞೆ ನೀಡಿತು ಮಾತ್ರವಲ್ಲದೆ ವೇತನವನ್ನು ಕೊಡದಿರುವುದು ಒಬ್ಬ ವ್ಯಕ್ತಿಯ ಜೀವಿಸುವ ಹಕ್ಕು ಮಾತ್ರವಲ್ಲ ಘನತೆಯೊಂದಿಗೆ ಜೀವಿಸುವುದನ್ನು ಉಲ್ಲಂಘಿಸುವುದಾಗಿದೆ ಎಂಬ ಮೇರುವಾದವನ್ನು ಪ್ರತಿಪಾದಿಸಿತು.

ಅ) ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಲಯದ ಈ ತೀರ್ಪನ್ನು ಸಮರ್ಥಿಸಿರಿ.

ಆ) ಭಾರತದ ಸಂವಿಧಾನದ ಯಾವ ವಿಧಿಯು ವ್ಯಕ್ತಿಯ ಘನತೆಯೊಂದಿಗೆ ಜೀವಿಸುವ ಹಕ್ಕನ್ನು ನೀಡಿದೆ?

7. The State Government of Andhra Pradesh vacated forcefully the residents of Bhimrao Bada, with an intention to construct a building for Congress party. The residents of Bhimrao Bada, the opposition party and the general public opposed the action of the Government. They approached the High Court of Andhra Pradesh. The High Court gave judgement in favour of the residents of Bhimrao Bada.

   i) Do you think the Government of Andhra Pradesh is justified in its action? Give reasons.

   ii) Identify the human rights violated in this case.

   ಆಂಧ್ರ ಪ್ರದೇಶ ಸರಕಾರವು ಕಾಂಗ್ರೆಸ್ ಪಕ್ಷಕ್ಕೆ ಕಟ್ಟಡವನ್ನು ಕಟ್ಟುವ ಸಲುವಾಗಿ ಭೀಮರಾವ್ ಬಾಡ ಎಂಬ ಪ್ರದೇಶದ ನಿವಾಸಿಗಳನ್ನು ಬಲವಂತ ಪೂರ್ವಕವಾಗಿ ತೆರವುಗೊಳಿಸಿತು. ಸರಕಾರದ ಈ ನಿಲುವನ್ನು ಆ ಪ್ರದೇಶದ ನಿವಾಸಿಗಳು, ವಿರೋಧ ಪಕ್ಷದವರು ಹಾಗೂ ಸಾರ್ವಜನಿಕರು ವಿರೋಧಿಸಿದ್ದರಲ್ಲದೆ ಆಂಧ್ರ ಪ್ರದೇಶ ಉಚ್ಚ ನ್ಯಾಯಾಲಯದಲ್ಲಿ ದಾವೆಯನ್ನು ಹೂಡಿದರು. ಉಚ್ಚ ನ್ಯಾಯಾಲಯವು ಇದನ್ನು ಪರಿಶೀಲಿಸುತ್ತ ಭೀಮರಾವ್ ಬಾಡದ ನಿವಾಸಿಗಳ ಪರವಾಗಿ ತೀರ್ಪನ್ನು ನೀಡಿತು.

   ಅ) ಆಂಧ್ರ ಪ್ರದೇಶ ಸರಕಾರದ ಈ ಕೃತ್ಯವನ್ನು ನೀವು ಅನುಮೋದಿಸುತ್ತೀರಾ?

   ಆ) ಯಾವ ಮಾನವ ಹಕ್ಕು ಇಲ್ಲಿ ಉಲ್ಲಂಘನೆಯಾಗಿದೆ?

8. Examine the nature of human rights.
   ಮಾನವ ಹಕ್ಕುಗಳ ಸ್ವರೂಪವನ್ನು ಪರಿಶೀಲಿಸಿರಿ.

9. Write a note on consumer rights.
   ಗ್ರಾಹಕ ಹಕ್ಕಿನ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

10. What is meant by indigenous population?
    ಬುಡಕಟ್ಟು ಸ್ಥಳೀಯ ಜನಾಂಗ ಎಂದರೇನು?

11. What is meant by an unorganized labour? Mention any two problems faced by unorganized labourers.
    ಅಸಂಘಟಿತ ಕಾರ್ಮಿಕರು ಎಂದರ ಯಾರು? ಅವರು ಎದುರಿಸುತ್ತಿರುವ ಯಾವುದಾದರೂ ಎರಡು ಸಮಸ್ಯೆಗಳನ್ನು ಬರೆಯಿರಿ.

III. Answer any <u>FIVE</u> questions in about 10 sentences each. Each question carries 5 marks: **(5x5=25)**

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಐದು</u> ಪ್ರಶ್ನೆಗಳಿಗೆ 10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 5 ಅಂಕಗಳು.

12. Explain the classification of human rights.
    ಮಾನವ ಹಕ್ಕುಗಳ ವರ್ಗೀಕರಣವನ್ನು ವಿವರಿಸಿರಿ.

13. Examine the status of minorities in India.
    ಭಾರತದಲ್ಲಿ ಅಲ್ಪಸಂಖ್ಯಾತರ ಸ್ಥಾನಮಾನವನ್ನು ಪರಿಶೀಲಿಸಿ ಬರೆಯಿರಿ.

14. Write a note on racial discrimination.
    ವರ್ಣಭೇದ ನೀತಿಯ ಬಗ್ಗೆ ಒಂದು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

15. Explain any five functions of Human Rights Watch.
    'ಮಾನವ ಹಕ್ಕುಗಳ ಕಾವಲು' ಇದರ ಯಾವುದಾದರೂ ಐದು ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿರಿ.

Contd...3

16. Discuss the role of students in promoting human rights.
ಮಾನವ ಹಕ್ಕುಗಳ ರಕ್ಷಣೆಯಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿರಿ.

17. Explain the organization and composition of NHRC.
ರಾಷ್ಟ್ರೀಯ ಮಾನವ ಹಕ್ಕುಗಳ ಆಯೋಗದ ರಚನೆಯನ್ನು ವಿವರಿಸಿರಿ.

18. Write a short note on PUCL.
ಪಿಯುಸಿಎಲ್ ನ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

IV. Answer any <u>ONE</u> question in about 20 sentences each. Each question carries 10 marks: (10x1=10)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಒಂದು</u> ಪ್ರಶ್ನೆಯನ್ನು 20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 10 ಅಂಕಗಳು.

19. Discuss the role of NGO's in promoting and protecting human rights.
ಮಾನವ ಹಕ್ಕುಗಳ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ರಕ್ಷಣೆಯಲ್ಲಿ ಸರಕಾರೇತರ ಸಂಘ ಸಂಸ್ಥೆಗಳ ಪಾತ್ರವನ್ನು ಚರ್ಚಿಸಿ ಬರೆಯಿರಿ.

20. Explain the origin and development of human rights.
ಮಾನವ ಹಕ್ಕುಗಳ ಉಗಮ ಹಾಗೂ ಬೆಳವಣಿಗೆಯನ್ನು ವಿವರಿಸಿರಿ.

V. Answer any <u>ONE</u> question in about 40 sentences each. Each question carries 15 marks: (15x1=15)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಒಂದು</u> ಪ್ರಶ್ನೆಯನ್ನು 40 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 15 ಅಂಕಗಳು.

21. Explain the rights enshrined in the UDHR.
ಮಾನವ ಹಕ್ಕುಗಳ ವಿಶ್ವವ್ಯಾಪಿ ಘೋಷಣೆಯಲ್ಲಿರುವ ಹಕ್ಕುಗಳನ್ನು ವಿವರಿಸಿರಿ.

22. Discuss the remedies against violation of human rights in India.
ಮಾನವ ಹಕ್ಕುಗಳ ಉಲ್ಲಂಘನೆಯ ವಿರುದ್ಧವಿರುವ ಪರಿಹಾರೋಪಾಯಗಳನ್ನು ಚರ್ಚಿಸಿ ಬರೆಯಿರಿ.

PART – B

(VALUE EDUCATION)

VI. Answer any <u>FOUR</u> questions in about 8-10 sentences. Each question carries <u>FIVE</u> marks: (5x4=20)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ನಾಲ್ಕು</u> ಪ್ರಶ್ನೆಗಳನ್ನು 8–10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 5 ಅಂಕಗಳು.

23. What is meant by female infanticide and what are the reasons for female infanticide?
ಹೆಣ್ಣು ಶಿಶು ಹತ್ಯೆಯೆಂದರೇನು? ಹೆಣ್ಣು ಶಿಶು ಹತ್ಯೆಗೆ ಕಾರಣಗಳೇನು?

24. Explain Mahatma Gandhi's views on women empowerment.
ಮಹಿಳಾ ಸಬಲೀಕರಣದ ಬಗ್ಗೆ ಮಹಾತ್ಮ ಗಾಂಧೀಜಿಯವರ ಅಭಿಪ್ರಾಯವನ್ನು ವಿವರಿಸಿರಿ.

25. Write a short note on cloning.
ಕ್ಲೋನಿಂಗ್ ಬಗ್ಗೆ ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

26. What are the goals of counseling?
ಆಪ್ತ ಸಲಹೆಯ ಧ್ಯೇಯೋದ್ದೇಶವೇನು?

27. What are the qualities of a good listener?
ಉತ್ತಮ ಆಲಿಸುವವನ ಗುಣ ಲಕ್ಷಣಗಳೇನು?

28. What is meant by suicide? What are the two main reasons for suicide?
ಆತ್ಮಹತ್ಯೆಯನ್ನು ಎಂದರೇನು? ಆತ್ಮಹತ್ಯೆಯ ಎರಡು ಕಾರಣಗಳೇನು?

VII. Answer any <u>ONE</u> question in about 20 sentences. The Question carries 10 marks: (10x1=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಒಂದು</u> ಪ್ರಶ್ನೆಯನ್ನು 20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರಶ್ನೆಗೆ 10 ಅಂಕಗಳು.

29. What are the ways to manage stress? Explain.
ಒತ್ತಡ ನಿರ್ವಹಣೆಗೆ ಬೇಕಾದ ಅಂಶಗಳಾವುವು? ವಿವರಿಸಿರಿ.

30. Explain ten commandments for conquering depression.
ವಿನ್ನತೆಯನ್ನು ನಿಯಂತ್ರಿಸಲು ಬೇಕಾದ ಹತ್ತು ಮಾರ್ಗೋಪಾಯಗಳನ್ನು ವಿವರಿಸಿರಿ.

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