Reg. No. ☐☐☐☐☐,☐☐☐

IV Semester B.Sc./B.C.A./B.Sc.(FAD)./B.V.A. Degree Examination,
September/October - 2022
GENERAL ENGLISH
Language English (Imprints - IV)
(CBCS Scheme Freshers)
Paper : IV

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates:
   1.   Answer All questions.
   2.   Mention the question number correctly.

PART - A
(Grammar Section)

I.   Do as directed :   (1×5=5)

   a.   i.   Structure an interview comprising of five sets of questions and responses seeking information about the candidate's short term goals and long term goals.

               (OR)

        ii. Frame questions not exceeding five, likely to be asked during an interview for the post of research associate in Defence laboratory, Pune.

   b.   **Choose a topic and write an essay not exceeding two pages :**   (1×10=10)

        i.   Write an essay on your experiences during online classes and offline classes.

        ii. Write an essay on the advent of digitalization in personal as well as professional space.

   c.   **Write a CV and a cover letter for any one of the posts :**   (5+5=10)

        i.   You are an applicant for the post of Data Analyst at Delta informatics, a software company located at Aditya Towers, Brigade Road, Bengaluru 560025.

        ii. You have been working as Junior Research Assistant at Defence Research Laboratory for five years. Apply for the post of Senior Research Assistant at Biocon Research Center, Zindal Campus, Bengaluru.

[P.T.O.

d. **Complete the following sentences using the right idioms/proverbs.** (3×1=3)

(to move heaven and earth, to take the law into one's hand, at the eleventh hour, once in a blue moon)

i. Sakshi visits her parents _____.

ii. It is not wise _____.

iii. All the arrangements were made _____.

e. **Choose the correct phrasal verb and fill in the blanks with appropriate tense modification.** (2×1=2)

(Look out, give up, put out).

i. The security guard _____ snoring after undergoing a treatment.

ii. It took six hours to _____ the flames.

PART - B

(Literary Section)

II. Answer any **Five** of the following questions in not more than **Two** sentences each.(5×1=5)

1. What happend to the narrator's mother one night as remembered in the poem, *The Night of the Scorpion*?

2. Mention the names of the other guests as recorded in the guest - book maintained by *The Landlady*.

3. Which creature was the narrator fond of, as observed in the *World in a Wall*?

4. Mention the different types of bells discussed by the speaker in *The Bells.*

5. In which year was Soap factory shifted to Rajajinagar as mentioned in *Mysore Sandal Soap Turns 100*?

6. How far could E - Pung swim as shared with Yagdor in the story, *Origin of Earthquakes*?

7. What was the chief food of the Lady land?

III. Answer any **Two** of the following questions in not less than one page each : (2×5=10)

1. Describe *the night of the scorpion*.

2. Write a note on *The Landlady*.

3. What observation does the writer make on the inhabitants of the wall?

4. Write a note on different types of bells.

IV.   Answer any **One** of the following questions in not more than three pages.   (1×10=10)

  1.   Narrate the adventure of the writer in smuggling the mother scorpion with its babies into his house.

  2.   Elaborate on the theme of the poem, *Prayer Before Birth*.

  3.   How does the story, *Sultana's Dream* dwell on the reversal of the role of gender?

PART - C

(Novella Section)

V.   Answer any **Two** of the following questions in not less than one page each.   (2½+2½=5)

  1.   Describe the world of Morlocks.

  2.   Narrate the time traveller's bonding with Weena.

  3.   Write briefly about the disappearance of the time machine.

  4.   The palace of green porcelain was like a museum. Justify

VI.   Answer any **One** of the following questions in not more than three pages.   (1×10=10)

  1.   Time traveller's vision of the world in future was not the same as experience by him after time travelling into future. Elaborate.

  2.   Compare and contrast the life of Elios and Morlocks as observed by the time traveller.

  3.   Narrate the time traveller's experience with the White Sphinx.

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Reg. No. ☐☐☐☐☐☐☐☐

IV Semester B.C.A. Degree Examination, September/October - 2022

ಕನ್ನಡ ಭಾಷೆ

ಕನ್ನಡ ಭಾಷಾ ಪಠ್ಯ

(CBCS Scheme Freshers)

Paper : IV

Time : 3 Hours   Maximum Marks : 70

I. ಯಾವುದಾದರೂ **ಐದು** ಪ್ರಶ್ನೆಗಳಿಗೆ **ಮೂರು ನಾಲ್ಕು** ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.   (5×2=10)

   1) ಮಾದೇವರಾಯನ ಕನಸು

   2) ಡ್ರಿಪ್ ಯೋಜನೆಯ ಪರಿಕಲ್ಪನೆ

   3) ನಿಗೆಲ್‌ನ ವ್ಯಕ್ತಿತ್ವ

   4) ಬ್ಲಾಕ್ ಹೋಲ್ ಟ್ರ್ಯಾಜಿಡಿ

   5) ಸತ್ಯಂತಪ ಋಷಿಯ ಆಶ್ರಮ

   6) ಮಿಸೆಸ್ ಕ್ಲಿಂಗೆಲ್ ಪರಿಚಯ

   7) ಗಿರಿಯಪ್ಪನ ಗಿರಿವಿ ಅಂಗಡಿ

   8) ಸಿನಿಮಾ ಮಂದಿರದಲ್ಲಿ ನಂಜನ ವರ್ತನೆ

II. ಯಾವುದಾದರೂ **ನಾಲ್ಕು** ಪ್ರಶ್ನೆಗಳಿಗೆ ಹತ್ತು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.   (4×5=20)

   1) ಮಹಾಡ್ ಸಮಾವೇಶದಲ್ಲಿ ತೆಗೆದುಕೊಂಡ ನಿರ್ಣಯಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಪರಿಚಯಿಸಿ.

   2) ಇಸ್ರೇಲ್‌ನ ಹನಿ ನೀರಾವರಿಯ ಮಹತ್ವವನ್ನು ತಿಳಿಸಿ.

   3) 'ಮಾರುಕಟ್ಟೆ' ಕವನದ ಸ್ವಾರಸ್ಯವನ್ನು ಬರೆಯಿರಿ.

   4) ಡೆರಿಸ್‌ಗೆ ಮಾಡೆಲಿಂಗ್ ಜಗತ್ತು ಕೃತಕ ಮತ್ತು ವಂಚನೆಯ ಜಗತ್ತು ಎನಿಸಲು ಕಾರಣವೇನು ?

   5) ಅನಂತಮೂರ್ತಿ ಹಾಗೂ ಸುಬ್ಬಣ್ಣನವರ ಬಾಲ್ಯದ ನೆನಪುಗಳನ್ನು ತಿಳಿಸಿ.

   6) ಬಾಯೂಲ್ ಗೀತೆಗಳಿಗೂ ರವೀಂದ್ರರ ಗೀತಾಂಜಲಿಗೂ ಇರುವ ಸಾಮ್ಯತೆಯನ್ನು ವಿವರಿಸಿ.

[P.T.O.

III. ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಇಪ್ಪತ್ತು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.   (3×10=30)

   1) 'ಕೆರೆಗೆ ಹಾರ' ಜನಪದ ಕವನದಲ್ಲಿ ಬರುವ ಭಾಗೀರತಿ ಪಾತ್ರವನ್ನು ಪರಿಚಯಿಸಿ.

   2) ವಾರಿಸ್ ಡೆರಿಸ್ಳ ಬಾಲ್ಯದ ಬಡತನವನ್ನು ಚಿತ್ರಿಸಿ.

   3) ಗುಲಾಮಗಿರಿಯ ಇತಿಹಾಸ ಹಾಗೂ ಶೋಷಣೆಯ ಬಗ್ಗೆ ಮೊಗಳ್ಳಿ ಗಣೇಶ್ ಅವರ ನಿಲುವೇನು ? ಚರ್ಚಿಸಿ.

   4) ದುರ್ಯೋಧನ ಹಾಗೂ ಕರ್ಣರ ಸ್ನೇಹವು ಪಂಪನ ಕಾವ್ಯಭಾಗದಲ್ಲಿ ಹೇಗೆ ಚಿತ್ರಿತವಾಗಿದೆ ?

   5) 'ಶ್ರೀಮಂತಿಕೆ ಬದುಕಿನಲ್ಲಿ ಎಲ್ಲವನ್ನು ಕೊಡುವುದಿಲ್ಲ' – ಈ ಹೇಳಿಕೆಯನ್ನು ತ್ರಿವೇಣಿ ಅವರ 'ತುಂಬಿದ ಕೊಡ' ಕಥೆಯ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ.

IV. ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಹತ್ತು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. (ಓದು ಪಠ್ಯ)   (2×5=10)

   1) 'ನೀರು' ಕವನದ ಸ್ವಾರಸ್ಯವನ್ನು ತಿಳಿಸಿ.

   2) ಅಂತರ್ಜಾಲ ಮಾರುಕಟ್ಟೆಯ ವಿಸ್ತಾರತೆಯನ್ನು ಪರಿಚಯಿಸಿ.

   3) ಜಾಲಿ ಮತ್ತು ಡೋರಾ ಸ್ನೇಹದ ಸಂದರ್ಭವನ್ನು ತಿಳಿಸಿ.

   4) ಕೆ.ಆರ್.ಇ.ಸಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ವಾತಾವರಣವನ್ನು ಪರಿಚಯಿಸಿ.

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IV Semester B.C.A. Degree Examination, September/October - 2022
HINDI
Upanyas, Prathivedan Lekhan Aur Anuvad
Paper : IV
(CBCS Scheme Freshers + Repeaters 2019-2020 Onwards)

Time : 3 Hours   Maximum Marks : 70

I. निम्नलिखित प्रश्नों के उत्तर एक शब्द या एक वाक्य में लिखिए :   (10×1=10)

    1) अलका का जन्म कहाँ हुआ था?

    2) आशुतोष कहाँ का रहनेवाला है?

    3) अलका अपनी बेटी को किसे सौंपकर निश्चिंत रहना चाहती थी?

    4) माधवी किस आंदोलन में भाग लेने बिहार चली गई थी?

    5) अलका किस प्रकार की कविता लिखना पसंद करती थी?

    6) उत्तराखाण्ड के सफर के दौरान अलका के साथ जो सन्यासी आया था वह कौन है?

    7) अलका के पिताजी कहाँ के रहनेवाले थे?

    8) अलका के कितने बच्चे थे?

    9) नरकंकाल सा युवक कौन था?

    10) 'स्वप्नमयी' उपन्यास के लेखक कौन है?

II. किन्हीं दो प्रश्नों के उत्तर लिखिए :   (2×12=24)

    1) 'स्वप्नमयी' उपन्यास के आधार पर अलका की मनोदशा का वर्णन कीजिए ।

    2) 'आशुतोष' का चरित्र चित्रण कीजिए ।

    3) 'स्वप्नमयी' उपन्यास का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए ?

III. किन्हीं दो पर टिप्पणी लिखिए :   (2×8=16)

    1) नन्दिता

    2) अलका के पति

    3) माधवी

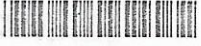IV. किसी एक विषय पर प्रतिवेदन (रिपोर्ट) तैयार कीजिए : (1×10=10)

1) आपके महाविद्यालय में सम्पन्न हुआ वार्षिकोत्सव का वर्णन करते हुए एक प्रतिवेदन तैयार कीजिए :

2) 15 अगस्त 2022 को, आजादी के अमृत महोत्सव पर आपके महाविद्यालय में एक रक्तदान शिबिर का आयोजन किया गया था। इस पर एक प्रतिवेदन तैयार कीजिए :

V. हिन्दी में अनुवाद कीजिए। (1×10=10)

Cinema is a popular means of Entertainment in the modern days. In proof of this we may say that 91% of the people get entertainment through cinema. Today the income of the cinema companies is crore of Rupees. From elderly persons to children-every one likes cinema. No other means of Entertainment has attracted people to this Extent. this proves that cinema is most popular means of Entertainment.

ಚಲನ ಚಿತ್ರವು ಆಧುನಿಕ ಯುಗದ ಜನಪ್ರಿಯ ಮನರಂಜನಾ ಸಾಧನವೆನಿಸಿದೆ ಈ ಮಾತಿಗೆ ಸಾಕ್ಷಿಯಾಗಿ ನೂರಕ್ಕೆ ತೊಂಭತ್ತ ರಷ್ಟು ಜನ ಸಿನಿಮಾಗಳಿಂದಲೇ ಮನರಂಜನೆ ಪಡೆಯುತ್ತಿರುವರೆಂದು ನಾವು ಹೇಳಬಹುದು ಇಂದು ಸಿನೇಮಾ ಕಂಪನಿಗಳ ಉತ್ಪನ್ನ ಕೋಟಿಗಟ್ಟಲೇ ಇದೆ. ವೃದ್ಧರಿಂದ ಹಿಡಿದು ಮಕ್ಕಳವರೆಗೆ ಪ್ರತಿಯೊಬ್ಬರೂ ಸಿನಿಮಾಗಳನ್ನು ಮೆಚ್ಚುತ್ತಾರೆ ಬೇರೆ ಯಾವ ಮನರಂಜನೆಯ ಸಾಧನವೂ ಜನರನ್ನು ಇದರಷ್ಟು ಆಕರ್ಷಿಸಿಲ್ಲ' ಇದರಿಂದ ಚಲನಚಿತ್ರವೇ ಅತ್ಯಂತ ಜನ ಪ್ರಿಯವಾದ ಮನರಂಜನೆಯ ಸಾಧನ ಎಂಬುದು ಸಿದ್ಧವಾಗುತ್ತದೆ.

Reg. No. ☐☐☐☐☐☐☐

IV Semester BCA/BHM Degree Examination, September/October - 2022

SANSKRIT

Mracchakatikam - I Act and Dramatic Literature

Paper - IV

(CBCS Scheme (F+R) 2020 - 21 and onwards)

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates:- 1) Answer in Sanskrit/Kannada/English.
                             2) Q. No. I. Should be answered in Sanskrit only.

I. समीचीनम् उत्तरं चित्वा लिखत।   (10×1=10)

    ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ ಬರೆಯಿರಿ.

    Choose and write the correct answer.

    1) मृच्छकटिकम् केन रचितम्?

        अ) कालिदासेन   आ) भासेन   इ) शूद्रकेण   ई) दण्डिना

    2) मृच्छकटिकप्रकरणे कति अङ्का: सन्ति?

        अ) दश   आ) पञ्च   इ) नव   ई) सप्त

    3) मृच्छकटिके नायिका का?

        अ) रदनिका   आ) मदनिका   इ) सीता   ई) वसन्तसेना

    4) मैत्रेय: क:?

        अ) विट: आ) विदूषक: इ) चेट: ई) नायक:

    5) चारूदत्तस्य चेटी का?

        अ) मदनिका   आ) पल्लविका   इ) जया   ई) रदनिका

    6) दुःखान्यनुभूय किं शोभते?

        अ) सुखम्   आ) मरणम्   इ) श्रवणम्   ई) मननम्

                                                                      [P.T.O.

7) कामेन किं दह्यते?

   अ) गृहम्   आ) हृदयम्   इ) मित्रम्   ई) वनम्

8) शान्तमित्यभिहिते श्रान्त इति क: अवगच्छति?

   अ) विट: आ) चेह: इ) शकार: ई) चारूदत्त:

9) वसन्तसेना कम् इच्छति?

   अ) शकारम्   आ) राजानम्   इ) चारूदत्तम्   ई) पुरूषं

10) धनहार्यं पण्यभूतम् किम्?

   अ) शरीरम्   आ) मन: इ) गृहं   ई) क्षेत्रम्

II. चारूदत्तस्य पात्रचित्रणं कुरूत।   (1×10=10)

ಚಾರುದತ್ತನ ಪಾತ್ರವನ್ನು ಚಿತ್ರಿಸಿ.

Sketch the character of charudatta.

(अथवा/ಅಥವಾ/OR)

शूद्रकस्य देशकालकृतीनां विषये लिखत।

ಶೂದ್ರಕನ ದೇಶ, ಕಾಲ ಮತ್ತು ಕೃತಿಗಳನ್ನು ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

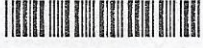Write an essay about the life date and works of shudraka.

III. द्वयो: लघुटिप्पण्यौ लिखत।   (2×5=10)

ಎರಡು ವಿಷಯಗಳಿಗೆ ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Write short notes on any two of the following.

1) सूत्रधार:।

2) वसन्तसेना।

3) शकार:।

4) विदूषक:।

IV. द्वयोः श्लोकयोः अनुवादं कृत्वा लिखत। (2×6=12)

ಎರಡು ಶ್ಲೋಕಗಳನ್ನು ಅನುವಾದಿಸಿ ವಿವರಿಸಿ.

Translate and explain any two Shlokas.

1) तयोरिदं सत्सुरतोत्सवाश्रयं
   नय प्रचारं व्यवहारदृष्टताम्।
   खलस्वभावं भवितव्यतां तथा
   चकार सर्वं किल शूद्रको नृपः॥

2) यासां बलिः सपदि मद्गृहदेहलीनाम्
   हंसैश्च सारसगणैश्च विलुप्तपूर्वः।
   तास्वेव संप्रति विरूढतृणाङ्कुरासु
   बीजाञ्जलिः पतति कोटमुखावलीढः॥

3) किं त्वं भयेन परिवर्तितसौकुमार्या
   नृत्यप्रयोगविशदौ चरणौ क्षिपन्ती।
   उद्विग्नचञ्चलकटाक्षविसृष्टदृष्टि
   व्याधानुसार चकिता हरिणीव यासि॥

4) तरुण जनसहायश्चिन्त्यतां वेश्ववासो
   क्रिणय गणिका त्वं मार्गजाता लतेव।
   वहसि हि धनहार्यं पण्यभूतं शरीरं
   समुपचर भद्रे सुप्रियं चप्रियं च॥

V. द्वयोः वाक्ययोः ससन्दर्भं विवृणुत। (2×4=8)

ಎರಡು ವಾಕ್ಯಗಳನ್ನು ಸಂದರ್ಭಸಹಿತ ವಿವರಿಸಿ.

Explain with reference to context any two of the following.

1) बुभुक्षातोऽन्नमयं जीवलोकं पश्यामि।

2) घृतः शरीरेण मृतः स जीवति।

3) मयाऽत्मा स्वयमेव रक्षितव्यः।

4) अहं वरपुरूषमनुष्यो वासुदेवः कामयितव्यः।

[P.T.O.

VI. अ) भासस्य देशकालकृती: अधिकृत्य प्रबन्धं लिखत।   (1×10=10)

ಭಾಸನ ದೇಶ, ಕಾಲ ಕೃತಿಗಳನ್ನು ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

Write an essay on life, date and works of Bhasa.

(अथवा/ಅಥವಾ/OR)

संस्कृतरूपकाणाम् उगमविकासौ अधिकृत्य प्रबन्धं लिखत।

ಸಂಸ್ಕೃತ ರೂಪಕಗಳ ಉಗಮ ಮತ್ತು ವಿಕಾಸಗಳನ್ನು ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

Write about the origin and development of Sanskrit Drama.

आ) द्वयो: लघुटिप्पणी लिखत।   (2×5=10)

ಯಾವುದಾದರೂ ಎರಡನ್ನು ಕುರಿತು ಲಘು ಟಿಪ್ಪಣೆ ಬರೆಯಿರಿ.

Write short notes on any two of the following.

1) नान्दी

2) श्रीहर्ष:

3) भवभूति:

4) स्वप्नवासवदत्तम्

Reg. No. ☐☐☐☐☐☐☐

IV Semester B.C.A. Degree Examination, September/October - 2022
COMPUTER SCIENCE
Software Engineering
(CBCS Scheme)
Paper - BCA 405 T

Time : 3 Hours   Maximum Marks : 100

Instructions to Candidates :
    1)   Answer all Sections.

SECTION - A

I.   Answer any TEN questions.   (10×2=20)
    1)   Define software Engineering.
    2)   Name the two types of software product.
    3)   Define system Engineering.
    4)   What is system decommissioning?
    5)   Define SRS.
    6)   Mention two advantages of prototype model.
    7)   What is coupling?
    8)   Define verification and validation.
    9)   Define Test Case.
    10) What is RGM (Reliability Growth Model)?
    11) What is Stress Testing?
    12) Define Quality Assurance.

SECTION - B

II.   Answer any Five questions.   (5×5=25)
    13) Describe system Procurement process.
    14) Explain waterfall model with a neat diagram.
    15) Explain the IEEE structure of SRS.
    16) Explain Prototype with a neat diagram.
    17) Write a note on system Reliability Engineering.

18) Compare function oriented design & object oriented design.
19) Describe different Requirement validation checks.
20) Differentiate between Black Box and White Box Testing.

SECTION - C

III. Answer any **Three** of the following. Each question carries **Fifteen** marks.   (3×15=45)

21) a)   Explain the different phases of SDLC.
    b)   Explain the spiral model with neat diagram.   (8+7)

22) Explain the Requirement Engineering process.   (15)

23) a)   What do you mean by function oriented design? Explain.

15422

Reg. No. ☐☐☐☐☐☐

IV Semester B.C.A. Degree Examination, September/October - 2022
COMPUTER SCIENCE
UNIX AND SHELL PROGRAMMING
(CBCS Scheme)

Time : 3 Hours   **Maximum Marks : 70**

Instructions to Candidates:

Answer all the sections.

SECTION - A

Answer any Ten questions. Each question carries Two marks.   **(10×2=20)**

1. Mention any four features of Unix operating system.

2. Differentiate between finger and who command.

3. Mention different types of Shells.

4. What is the significance of expr command?

5. What is the use of wall and mail command?

6. Write the syntax of if-else statement with example.

7. Write the uses of head and tail command.

8. What are positional parameters?

9. What is distributed file system?

10. What is file encryption? How do you encrypt a file in unix?

11. What is test command in Unix?

12. Write the shell command for searching a pattern in a file.

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SECTION - B

Answer any Five questions. Each question carries Ten marks. (5×10=50)

13. a) Explain unix architecture with a neat diagram. (4)

b) What is the use of chmod command? Differentiate between symbolic and absolute mode with example. (6)

14. a) Expalin unix system calls with example. (5)

b) Write a shell program to print all prime numbers between m and n. (5)

15. a) Write a short note on:

   i) Cat   ii) Is   iii) Cut

   iv) Kill   v) nice (5)

b) Explain different loop control statements. (5)

16. a) Write a note on awk command. (5)

b) Explain disc related commands. (5)

17. Explain nohup and grep commands. (10)

18. a) Write a shell script to count number of vowels in a given string. (5)

b) Describe positional parameters in Unix shell programming. (5)

19. a) Write a note on SED command. (5)

b) Write a short note on Unix communication commands. (5)

20. a) Expalin different types of processes in Unix. (5)

b) Explain compression and de compression techniques. (5)

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15424

Reg. No.

IV Semester B.C.A. Degree Examination, September/October - 2022

COMPUTER SCIENCE

VB.NET PROGRAMMING

(CBCS Scheme)

Paper : BCA 403T

Time : 3 Hours

Maximum Marks : 70

***Instructions to Candidates*:**

Answer **all** sections.

SECTION - A

I. **Answer any Ten questions. Each question carries 2 marks.** (10×2=20)

1. Mention the types of applications that can be developed using. Net frame work.

2. Define CLS and JIT compiler.

3. Mention any two collection classes and their usage.

4. Write any two methods of list class with syntax and example.

5. Write the difference between static array and dynamic array in VB. Net.

6. Write the difference between functions and pr...

SECTION - B

II. Answer any Five questions. Each question carries 10 marks. (5×10=50)

1. a) Explain the architecture of .net framework with a neat diagram. (6)

   b) What are the features of VB. Net. Explain. (4)

2. a) Explain various components of visual studio IDE. (5)

   b) Write the syntax of select ..... case in VB.Net. Write a console based application to illustrate the usage of select... Case in VB.Net. (5)

3. a) Explain properties, methods and events of any two form controls in detail.(6)

   b) Explain methods for handling exceptions in VB.Net. Design a VB.Net window based application and write code to handle exception. (4)

4. a) What is MDI? Mention the difference between SDI and MDI. Design a VB. Net application having MDI and child forms and write code. (5)

   b) Explain any five mathematical and five string functions available in VB. Net.(5)

5. a) Discuss the concept of dynamic array in VB.Net. How to create dynamic array in VB.Net and also explain Redim and Preserve keyword in detail. (4)

   b) Explain ADD. NET object model and the steps for database connections using ADO.Net. Design and write code in VB.Net to create a login page.(6)

6. a) Design and write code for building a web application to read student name, register no and marks. (5)

   b) Define validation. Discuss properties and methods of validation controls in Asp. Net. (5)

7. a) Explain the steps for creating master pages in ASP.Net. (5)

   b) Write a note on crystal reports. (5)

8. a) Define LINQ. Briefly explain LINQ to objects in ASp.Net. (5)

   b) What is a stored procedure? Explain with an example. (5)