Reg. No. ☐☐☐☐☐☐☐☐

III Semester B.Sc./B.C.A./B.Sc.(FAD)B.V.A. Degree Examination,

March/April - 2022

ENGLISH (GENERAL)

Imprints - 3

(CBCS Scheme Freshers and Repeaters)

Paper: 03

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates:

    1)   Answer all the questions.

    2)   Write the correct question number.

PART - A

(Grammar Section)

I.   **Do as directed:**

A)   Write any **ONE** speech not exceeding **TWO** pages for the following occasions.

                                                                       (1×10=10)

    i)   Write a welcome speech for the Guests and faculty of your college, on the occasion of teacher's day.

                                                      (OR)

    ii) Write vote of thanks on the occasion of the cultural inauguration in your college.

B)   Write any **ONE** letter not exceeding one page for the following context. (1×5=5)
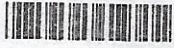
    i)   Write a requisition letter for the office equipment, to the manager, AB-furniture, 203, Bandra, Mumbai.

                                                      (OR)

    ii) Write a complaint letter to the hostel warden regarding the low quality of food supplied to the students at the hostel.

C) Draft either an invitation card or a letter for **ONE** of the following occasions.(1×5=5)

    i) Draft an invitation card for the opening of new company on May 3rd 2022 at 10 am at Bangalore.

<div align="center">(OR)</div>

    ii) Draft an invitation card for the farewell party given to your teacher retiring on 28th April 2022 at country club, Bangalore.

D) Draft any **ONE** circular for communicating the following message.   (1×5=5)

    i) Draft a circular informing the customers that your stationery shop has been shifted to 13th cross, Malleshwaram, Bengaluru.

<div align="center">(OR)</div>

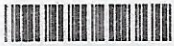   ii) Draft a circular informing the students of your college regarding the postponement of the final exam.

E) Read the passage and answer the following questions.   (5×1=5)

When we enter New York harbour, the first thing we see is the Statue of Liberty. What impresses us the most is its size and magnificence. Have you ever wondered how it came to be there? The Statue of Liberty was a gift from the people of France to mark the one-hundred-year anniversary of American Independence. In 1869, sculptor Frederic Auguste Bartholdi began to plan his concept for the monument.

Bartholdi chose the look of classic Greek and Roman figures. He envisioned Liberty as a strong and proud figure, one who personified not only the majestic Greek goddesses of the past, but also the working men and women of the present. Finally, in 1884, the work was finished, and Liberty was packed into 214 crates and sent to New York City. Only one problem stood in the way. While the French had raised a lot of funds to build the statue, New York had not secured the funds to build its foundation. It was not until a New York newspaper implored people for donations that money became available. Finally, on 28th October 1886, Americans celebrated the unveiling of the Statue of Liberty.

1) Why was the Statue of Liberty given as a gift to America by France?

2) What is the name of the sculptor of the monument 'the Statue of Liberty'?

3) What did the sculptor imagine the Statue of Liberty to be?

4) How many years did it take to unveil the Statue of Liberty?

5) Trace the word from the passage which means the same as "imagined".

PART - B

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

1. How did Rowley carry and bring the egg to school in the lesson The Dairy of a Wimpy Kid?

2. Mention one little thing Richard wanted to do in the lesson Richard Feynman's Love letter to His wife.

3. How did the Highway man respond to Bess's death?

4. What is the condition stipulated by the nightingale to the student for providing a red rose?

5. When was the last letter written from Nehru to his daughter?

6. Who is Monika Lewinsky? Why was the publicly shamed?

7. What should be built to keep the refugee away?

III. Answer any **TWO** of the following questions in not less than **ONE** page (2×5=10)

1. Elaborate the attitude of the boys and girls at the school in the Dairy of a wimpy kid.

2. Describe the relationship of Richard and Arline on the basis of the letter written by Richard.

3. Discuss the persistence and dedication of the nightingale in the lesson The Nightingale and the Rose.

4. Explain what is meant by 'Price of Shame'.

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

1. Comment on difficulties faced by refugee in the poem refugee.

2. Describe Nehru's experience in Jail.

3. Discuss the things one should avoid to become a true human being in the poem 'If'.

PART - C

(Drama)

V. Answer any **ONE** of the following questions in not more than a page. (1×5=5)

1. What was the warning given by the beggar before leaving the palace?

2. Comment on the attitude of the beggar.

3. Describe the behaviour of the king in the play.

VI. Answer any **ONE** of the following questions in more than **THREE** pages. (1×10=10)

1. Examine the theme of the play "The Beggar and the king".

2. Discuss the play as a commentary on democracy, leadership and people.

3. How does the beggar represents the king's downfall.

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Reg. No.

III Semester B.C.A. Degree Examination, March/April - 2022

ಕನ್ನಡ ಭಾಷೆ

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರ – 3

(CBCS Scheme) (Freshers)

Paper : III

Time : 3 Hours

Maximum Marks : 70

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

   1) ಅಕ್ಕಮಹಾದೇವಿ ಶಿವನನ್ನು ಹುಡುಕಿದ ಪರಿ

   2) ಚಂದ್ರಾಪೀಡನ ವಿರಹ

   3) ಜೋಡನ್ನು ಕಳೆದುಕೊಂಡ ಪ್ರಸಂಗ

   4) ಬ್ರಹ್ಮಾಸ್ತ್ರ ಪ್ರಯೋಗದ ಪರಿಣಾಮ

   5) ಬೈಕಿನ ರಿಮ್ಮು ಫಳ ಫಳ ಎಂದು ಹೊಳೆಯಲು ಕಾರಣ.

   6) ಶಬ್ದವೇಧಿ ವಿದ್ಯೆ

   7) ರಸ್ಕಿನ್ ಪ್ರಕಾರ ಶ್ರಮಿಕರ ಕೂಲಿ ದರದ ನಿಗದಿ.

   8) ಆರೋಗ್ಯ ಕ್ಷೇತ್ರದಲ್ಲಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನದ ಪಾತ್ರ.

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

   1) ಪತ್ರಲೇಖೆಯು ಚಂದ್ರಾಪೀಡನಿಗೆ ತಂದ ಕಾದಂಬರಿಯ ಸಮಾಚಾರವೇನು ?

   2) ವಾಲ್ಮೀಕಿ ರಾಮಾಯಣದಲ್ಲಿ ಶಂಭೂಕ ಪ್ರಸಂಗವನ್ನು ಬರೆಯಿರಿ.

   3) ತ.ರಾ.ಸು. ವೃತ್ತದ ಟೀ ಗೂಡಂಗಡಿಯ ವಾತಾವರಣವೇನು ?

   4) 'ಗುರುವಿನ ಗೌರವ ಕಾಯುವುದಕ್ಕಿಂತ ದೊಡ್ಡ ಸುಖವಿಲ್ಲ'' ಈ ಹೇಳಿಕೆಯನ್ನು ಸ್ಪಷ್ಟಪಡಿಸಿ.

   5) ರಾಷ್ಟ್ರದ ಅತ್ಯಂತ ಬೆಲೆಯುಳ್ಳ ಸಂಪತ್ತಾವುದು ?

   6) ಪ್ರಾಥಮಿಕ ಆರೋಗ್ಯ ವ್ಯವಸ್ಥೆಯ ನಿರ್ಲಕ್ಷ್ಯಕ್ಕೆ ಕಾರಣವೇನು ?

[P.T.O.

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

1) ಅರ್ಜುನ – ಏಕಲವ್ಯರ ನಡುವಿನ ಸಂವಾದವನ್ನು ಬರೆಯಿರಿ.

2) ವೈದ್ಯ ರಾಮನ್ ಮತ್ತು ಗೋಪಾಲ್ ನಡುವಿನ ಸಂಬಂಧವನ್ನು ವಿವರಿಸಿ.

3) ನಾದಿರ್ ಮತ್ತು ವೈದ್ಯ ಅಲಾವಿ ನಡುವಿನ ಸಂಭಾಷಣೆಯನ್ನು ಸಂಗ್ರಹಿಸಿ ಬರೆಯಿರಿ.

4) ಶ್ರೀರಾಮನು ಬ್ರಹ್ಮಾಸ್ತ್ರವನ್ನು ಪ್ರಯೋಗಿಸಲು ಕಾರಣವೇನು ? ವಿವರಿಸಿ.

5) ಸವರ್ಣೀಯರು ಹಾಗೂ ದಲಿತರ ನಡುವಿನ ಸಂಘರ್ಷಕ್ಕೆ ಕಾರಣಗಳನ್ನು ಬರೆಯಿರಿ.

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

1) ಚೋಮನ ಹಂಬಲ ಯಾವುದು ?

2) ಕೋವಿಡ್ ರೋಗ ಏಕೆ ಮಾರಕ ?

3) ಕಾವಿ ಕಲೆಯ ಅವನತಿಗೆ ಕಾರಣಗಳಾವುವು ?

4) ಡಾ. ಕೆ. ಶಿವರಾಮ ಕಾರಂತರ ಚೋಮನ ದುಡಿಯಲ್ಲಿ ವ್ಯಕ್ತವಾಗಿರುವ ದಲಿತ ಸಂವೇದನೆಯನ್ನು ಬರೆಯಿರಿ.

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III Semester B.C.A. Degree Examination, March/April - 2022

HINDI

Drama, Vigyapan Lekhan Aur Sankshepan

(CBCS Scheme Freshers and Repeaters 2019-20 Onwards)

Paper - III

Time : 3 Hours   Maximum Marks : 70

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

1) 'टार्च बियरर' समाचार पत्र के पत्रकार का क्या नाम है?

2) छाया के पापा ने क्या कहकर उसे पाँच हज़ार रूपये दिये?

3) डॉ. वशिष्ट के शोध लेख किन पत्रिकाओं में बराबर छपते रहते हैं?

4) आदित्य किस यूनीवर्सिटी में काम करता है?

5) अंग्रेज़ सरकार के समय कौन–सी उपाधि दी जाती थी?

6) अभयमल की उम्र कितनी है?

7) रवीश 'वाइलेन्ट पेशेन्ट्स' को कहाँ रखने की सलाह देता है?

8) दीपक कौन हैं?

9) डॉ. वशिष्ट के जीवन का क्या उद्देश्य है?

10) 'मन के भँवर' के नाटककार कौन है?

II. निम्नलिखित वाक्यों में से किन्हीं दो का संदर्भ सहित व्याख्या कीजिए:–   (2×7=14)

1) तुम्हारी बेफिक्री देखकर जलन होती है। काश में भी ऐसी ही होती।

2) जो दुनिया में कुछ करना चाहते हैं उन्हें आराम कहाँ।

3) देखो छाया सुख और दुःख तो केवल मन की स्थितियाँ है।

III. 'मन के भँवर' नाटक का कथानक सर्वकालिक है, जो समय के साथ पुराना नहीं पड़ता। स्पष्ट कीजिए।(1×16=16)

(अथवा)

'मन के भँवर' नाटक का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए।

[P.T.O.

IV. किन्हीं दो पर टिप्पणी लिखिए।   (2×5=10)

   1)   पूनम।

   2)   देवेन्द्र।

   3)   आदित्य।

V. किसी एक वस्तु पर विज्ञापन तैयार कीजिए।   (1×10=10)

   1)   शैम्पू।

   2)   लैपटॉप।

VI. निम्नलिखित अनुच्छेद का उचित शीर्षक देते हुए एक तिहाई शब्दों में संक्षिप्तिकरण किजिए।(1×10=10)

उदारता का अभिप्राय नि:संकोच भाव से किसी को धन देना नही; वरना दूसरों के प्रति सेवा भाव रखना ही है। उदार पुरूष सदा दूसरों के विचार का आदर करते हैं और समाज में आपस में मिलजुलकर सेवा भाव से रहते है। यह नही समझना चाहिए कि उदारता केवल धन से हो सकती है। सच्ची उदारता इस बात में है कि मनुष्य को मनुष्य समझा जाए। गरीबों के प्रति दया का भाव हो, मानवीय व्यवहार हो। धन की उदारता के साथ सबसे बड़ी एक और उदारता की आवश्यकता यह है कि उस व्यक्ति के प्रति किसी प्रकार का एहसान न जताया जाये। एहसान जताना उपकृत को नीचा दिखाना है। ऐसा करके हम उसके स्वाभिमान को ठेस पहुँचाते है, उसकी आत्मा को दु:खी करते है इसलिए एहसान जताकर किया हुआ परोपकार, परोपकार नहीं अनुपकार है।

Reg. No.

III Semester B.C.A./B.H.M. Degree Examination, March/April - 2022
SANSKRIT
Rajadharma in Shukraneeti and Swasthya Samrakshanam
Paper - III
(CBCS Semester Scheme Freshers 2019 and onwards)

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates:- 1) Answer in Sanskrit/ Kannada/ English.
                             2) Answer Question No. I in Sanskrit only.

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

     ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ ಬರೆಯಿರಿ.

     Choose and Write the correct answer.

     1)   पूर्वेदेवा: के?

          अ) सुरा:   आ) यक्षा:   इ) असुरा:   ई) गन्धर्वा:

     2)   नृपस्य परमो धर्म: क:?

          अ) प्रजापालनम्   आ) वनपालनम्   इ) दुर्गपालनम्   ई) यज्ञपालनम्

     3)   धर्मार्थकाममूलं शास्त्रं किम्?

          अ) पाकशास्त्रम्   आ) नीतिशास्त्रम्   इ) नाट्यशास्त्रं   ई) गजशास्त्रम्

     4)   वेदाङ्गानि कति?

          अ) सप्त   आ) पञ्च   इ) षट्   ई) अष्ट

     5)   असुराणां आचार्य: क:?

          अ) बृहस्पति:   आ) द्रोणाचार्य: इ) शुक्राचार्य: ई) कृपाचार्य:

     6)   पुरुषार्था: कति?

          अ) द्वौ   आ) चत्वार: इ) पञ्च   ई) दश

                                                              [P.T.O.

7) देवानां गुरू: क:?

    अ) शुक्राचार्य: आ) कृपाचार्य: इ) बृहस्पति:   ई) द्रोणाचार्य:

8) शुक्रनीति: केन रचिता?

    अ) मनुना   आ) याज्ञवल्क्येन   इ) शुक्राचार्येण   ई) कृपाचार्येण

9) शुक्राचार्यस्य पिता क:?

    अ) भृगु:   आ) रघु:   इ) विदु:   ई) भानु:

10) अर्थशास्त्रं केन रचितम्?

    अ) भार्गवेण   आ) कौटिल्येन   इ) व्यासेन   ई) बाणभट्टेन

II. द्वयो: प्रबन्धरूपेण उत्तरं लिखत।   (2×10=20)

ಯಾವುದಾದರೂ ಎರಡಕ್ಕೆ ಪ್ರಬಂಧರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

Write an essay on any two of the following.

1) शुक्रनीत्यनुसारेण राज्ञ: कर्तव्यानि विवृणुत।

ಶುಕ್ರನೀತಿಯ ಅನುಸಾರ ರಾಜನ ಕರ್ತವ್ಯಗಳನ್ನು ವಿವರಿಸಿರಿ.

Describe the duties of a king as per shukraneeti.

2) भारतीय धर्मशास्त्रमधिकृत्य प्रबन्धं लिखत।

ಭಾರತೀಯ ಧರ್ಮಶಾಸ್ತ್ರಗಳನ್ನು ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

Write an essay about Bhartiya Dharmashastra.

3) शुक्रनीते: द्वितीयाध्यायस्य सारांशं लिखत।

ಶುಕ್ರನೀತಿಯ ಎರಡನೆ ಅಧ್ಯಾಯದ ಸಾರಾಂಶವನ್ನು ಬರೆಯಿರಿ.

Write the summary of second chapter in Shukraneeti.

III. त्रयाणां श्लोकानां अनुवादं कृत्वा विवृणुत।   (3×4=12)

ಯಾವುದಾದರೂ ಮೂರು ಶ್ಲೋಕಗಳನ್ನು ಅನುವಾದಿಸಿ ವಿವರಿಸಿರಿ.

Translate and Explain any three verses.

1) अत: सदा नीतिशास्त्रमभ्यसेद्यत्नतो नृप:।

    यद्विज्ञानान्नृपाद्याश्च शत्रुजिल्लकरञ्जका:॥

2) सर्वाभीष्टकरं नीतिशास्त्रं स्यात्सर्ववसंमतम्।

   अत्यावश्यं नृपस्यापि स सर्वेषां प्रभुर्यत:॥

3) राजदण्डभयाल्लोक: स्वस्वधर्मपरो भवेत्।

   यो हि स्वधर्मनिरत: स तेजस्वी भवेदिह॥

4) बुद्ध्या बलेन शौर्येण ततो नीत्यानुपालयन्।

   प्रजा: सर्वा: प्रतिदिनमच्छिद्रे दण्डधृक् सदा॥

5) सात्विकं राजसं चैव तामसं त्रिविधं तप:।

   यादृक्तपतिहि योऽत्यर्थं तादृग् भक्ति वै नृप:॥

IV. वाक्यद्वयं ससन्दर्भं विवृणुत।   (2×4=8)

   ಎರಡು ವಾಕ್ಯಗಳನ್ನು ಸಂದರ್ಭ ಸಹಿತ ವಿವರಿಸಿ.

   Annotate any two of the following.

   1) यत्र नीतिबले चोभे तत्र श्री सर्वतो मुखी।

   2) शतलक्षश्लोकमिदं नीतिशास्त्रमथोक्तवान्।

   3) यष्टा च सर्वयज्ञानां नेता शत्रुगणस्य च।

   4) दुष्टनिग्रहणं नित्यं न नीत्याऽतो विना ह्यभे।

V. a) एकमधिकृत्य प्रबन्धं लिखत।   (1×10=10)

   ಯಾವುದಾದರೂ ಒಂದಕ್ಕೆ ಪ್ರಬಂಧವನ್ನು ಬರೆಯಿರಿ.

   Write an essay on any one of the following.

   1) योगशास्त्रे अष्टाङ्गयोगस्य वैशिष्ट्यं लिखत।

   ಯೋಗಶಾಸ್ತ್ರದಲ್ಲಿ ಅಷ್ಟಾಂಗ ಯೋಗದ ವೈಶಿಷ್ಟ್ಯವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.

   Write an essay on the Importance of ashtanga yoga in yoga philosophy.

2) स्वास्थ्यसंरक्षणे, आहारस्य प्रामुख्यं विशदयत।

ಆರೋಗ್ಯ ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ಆಹಾರದ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿರಿ.

Explain the importance of food in protection of health.

b) द्वयो: लघुटिप्पणीं लिखत।   (2×5=10)

ಎರಡಕ್ಕೆ ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Write short note on any two of the following.

1) शौचम्।

2) अरिषड्वर्ग:।

3) जलपानम्।

4) प्राणायाम:।

15323

Reg. No. ☐☐☐☐☐☐☐

III Semester B.C.A. Degree Examination, April-2022
COMPUTER SCIENCE
Operating System
Paper : BCA305T
(CBCS Scheme)

Time : 3 Hours   Maximum Marks : 100

Instructions to candidates :
    Answer all the questions.

SECTION - A

I. Answer any **Ten** questions.   (10×2=20)

1) Define operating system. Give two examples.

2) Mention the difference between a program & procen.

3) What is a thread?

4) How do you define deadlock?

5) Define aging.

6) What is critical region?

7) Mention the difference between fixed size partition & dynamic partition.

8) What do you mean by viren & warm?

9) Define page fault & fragmentation.

10) Mention the advantages of distributed operating system.

11) What is fragmentation?

12) Define semaphore.

SECTION - B

II. Answer any **Five** questions.   (5×5=25)

13) Explain services provided by operating system.

14) With a neat diagram, explain procen states.

15) What is critical section problem? Explain.

16) Describe resource allocation graph with necessary diagram.

[P.T.O.

17) Short notes on Paging.

18) What are the different types of file accen methods? Explain in detail.

19) Write a short note on virtual machine.

20) Explain the goals of protection.

SECTION - C

III. Answer any **Three** questions.   (3×15=45)

21) List the types of OS explain any three of them by listing advantages & disadvantages.
    (15)

22) How do you define synchronization? List

    a)   Clerical synchronization problems. Explain dising philosptis problem.   (9)

    b)   Discuss deadlock prevention and avoidance.   (6)

23) Write short notes on

    a)   External fragmentation   (8)

    b)   Segmentation   (7)

24) a)   Consider the following set of porcen with CPU burst time in ms.

Procen	CPU burst time
P1	5
P2	10
P3	6
P4	2

   Draw the Gantt chart illustrating the execution of there procenes using SJG algorithm. Final average waiting line & turn around time.   (6)

    b)   Explain the structure of hard disk   (5)

    c)   Explain system program.   (4)

25) a)   Differentiate between pre-emptive of non pre-emptive scheduling.   (5)

    b)   Explain the directory structure.   (5)

    c)   Explain the types of System Calls.   (5)

SECTION D

IV. Answer any **One** question. (1×10=10)

26) a) Consider the reference string

7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7

Find the page fault rate using FIFO page replacement algorithm. (6)

b) Discuss structure of a hard disk with a neat diagram (4)

27) a) Consider the disk queue with the requests find average head movement

98 183 37 122 14 124 65 67 (6)

b) Explain Least-Recently used (LRU) (4)

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Reg. No.

III Semester B.C.A. Degree Examination March/April - 2022
COMPUTER SCIENCE
Object Oriented Programming using C++
(CBCS Scheme)
Paper: BCA 303T

Time : 3 Hours

Maximum Marks : 70

Instructions to candidates :
Answer all the Sections.

SECTION - A

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

1. Define Class and Object.
2. What is the difference between Data Abstraction and Data Encapsulation?
3. What is function prototype?
4. Define Scope resolution operator in C++. Give example
5. What is Constructor?
6. Define Operator overloading.
7. What is the difference between a base class and a derived class?
8. Define Inheritance.
9. Differentiate between function overloading and overriding.
10. Define virtual base class.
11. What are input and output streams?
12. What are templates?

SECTION - B

Answer any **Five** questions. Each question carries **10 Marks.** (5×10=50)

13. a) Explain the structure of C++ program. (5)
    b) Explain the data types in C++ (5)
14. a) What is an inline function? Write a program to calculate area and circumference of circle using inline function. (5)
    b) What is a friend function? Explain with a suitable example. (5)

[P.T.O.

15. a) What is the general form of class and illustrate access specifiers. (5)
    b) Describe types of constructors in detail. (5)

16. a) Explain the types of inheritance with suitable examples. (5)
    b) Write a C++ program to perform sorting of array using function template. (5)

17. a) Define polymorphism. Discuss different types of polymorphism. (5)
    b) Write a C++ program to overload Unary ++ post increment operator using Friend function. (5)

18. a) What are manipulators? Explain parameterized and non-parameterized manipulators with examples. (5)
    b) Write a program to store five strings in an output stream. (5)

19. a) Explain exception handling in C++. (5)
    b) Write a program to calculate area and perimeter of a rectangle using inheritance. (5)

20. a) What is a file mode? What are the different mode options available for opening a file? (5)
    b) Explain Seek g( ), Seek p( ), tell g( ), tell p( ) and clear ( ) functions. (5)

Reg. No.

III Semester B.C.A. Degree Examination, April - 2022
COMPUTER SCIENCE
Financial Accounting and Management
Paper : BCA304T
(CBCS Scheme)

Time : 3 Hours   Maximum Marks : 70

Instructions to candidates :

    Answer all the Sections

    Answers should be written in English only and all sections are compulsory.

SECTION - A

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

1. Define Accounting?

2. Write types of subsidiary books?

3. Give the meaning of Bills of Exchange.

4. What do you mean by Ledger?

5. What do you mean by Double entry system?

6. State the Objectives Trial Balance?

7. What are the advantages of Tally ERP 9?

8. What is a Bank Reconciliation Statement?

9. What is Trial Balance?

10. List out the Types of Bills?

11. What is Auditing?

12. What is the need for preparing Final Account?

SECTION - B

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

13. a) Explain Accounting Concepts in detail.   (6)

    b) Briefly explain the features of Petty Cash Book.   (4)

[P.T.O.

14. a) Differentiate between Promissory note and bills of exchange. (5)

   b) Journalise the following Transactions in the books of Mr. Praveen (5)

       a) Started business with Rs.1,50,000 Cash

       b) Bought office furniture for cash Rs.20,000

       c) Bought machinery on credit from Global Traders Rs.30,000

       d) Received dividend on shares Rs.6,000

       e) Paid General Expenses Rs.5,000

15. a) Prepare a Purchase Book from following Information 2020 (5)

   Jan 1 Purchased from Mohan, Bangalore 15 quintals of wheat at Rs.500 per quintal

   Jan 10 Purchased from Adi, Mumbai 10 quintals of rice at Rs.100 per quintal

   Jan 19 Purchased from Steve, Kolkota 25 quintals of sugar at Rs.200 per quintal

   Jan 24 Purchased from Allam, Chennai 40 quintals of Jowar at Rs.100 per quintal

   b) Explain the classification of Errors in Accounting. (5)

16. a) Prepare a three columnar cash book from the following transactions: (7)

Feb 1, 2020	Cash in Hand Rs.30,000 at bank Rs.8,000
Feb 4	Bought Furniture for Rs.4,000 and issued cheque
Feb 6	Deposited into Bank Rs.12,000
Feb 8	Bought goods for cash Rs.5,000
Feb 10	Paid Vikram 1700 in full settlement of Rs.1800
Feb 14	Received Rs.2,500 from Varun & allowed him a discount Rs.80
Feb 18	Send a DD to satish for 3,500
Feb 20	Paid LIC premium Rs.710
Feb 25	Withdraw Rs.1600 by Cheque for Personal use.

   b) Discuss the causes for the difference between balance as per Cash book and Pass Book. (3)

17. From the following information prepare Trial Balance as on 31st March 2020. (10)

Particulars	Amount	Particulars	Amount
Capital Account	25,000	Creditors	5,000
Sales	30,900	Bad Debts	250
Stock as on 01.4.19	6,920	Bank (Cr.Balance)	5,700
Furniture & Fitting	1,280	Commission (Cr)	750
Motor Car	12,500	Purchases	10,950
Buildings	15,000	Purchase Return	250
Debtors	7,600	Cash Balance	1,300
Sales Return	400	Salaries	8,164
Advertisement	500	Insurance & Tax	2,500
Interest Account (Dr)	236		

18. From the following Trial balance of a Mr.A as on 31st March 2020, Prepare Trading and Profit and Loss account for the year ended 31st March 2020 and a Balance Sheet as on the date: (10)

Particulars	Debit	Particulars	Credit
Cash in hand	1200	Capital	60,000
Purchases	1,00,000	4% Bank loan	20,000
Opening Stock	35,000	Bills payable	20,000
Sundry Debtors	50,000	Sundry Creditors	24,000
Plant & Machinery	60,000	Sales	2,00,000
Furniture	15,000	Bad debts reserve	1,200
Bills receivable	18,000	Rent outstanding	1,000
Rent and taxes	10,000		
Wages	16,000		
Wages Prepaid	1,000		
Salaries	20,000		
	3,26,200		3,26,200

[P.T.O.

Additional Information:

1. Create Reserve for doubtful debts at 5% on Sundry debtors
2. Write off Rs 500/- as bad debts
3. Depreciate plant and machinery at 5% and on furniture at 10%
4. Provide outstanding liabilities: Taxes Rs.2,000 and Salaries Rs.4,000
5. Closing Stock Rs.40,000

19. a) From the following information, Prepare the Profit & Loss Account of Mukesh for the Year ending 31st March 2020. (7)

Particulars	Amount
Gross Profit	3,50,000
Salaries & Wages	20,000
Carriage outward	5,000
Discount Allowed	2,500
Discount Received	4,000
Commission Paid	1,500
Commission Received	2,000
Interest Paid	2,500
Interest Received	3,000
Rent Paid	2,500
Rent Received	3,500
General Expenses	4,500
Miscellaneous Expenses	1,000
Miscellaneous Incomes	1,500

b) Distinguish between Tangible Assets and Intangible Assets. (3)

20. a) Explain different types of Accounting Voucher and Inventory Voucher. (5)

b) Briefly Explain various company Features. (5)