



Reg. No. :

Name :

**II Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.)
Examination, May 2014
Core Course
2B03BCA : DIGITAL SYSTEMS**

Time : 3 Hours

Max. Weightage : 21

- Instructions :**
- 1) Answer **all** questions from Section – A. Weightage for a bunch of **four** questions is 1. Maximum weighted grade Point $1 (W) \times 2 (\text{bunch}) \times 4 (\text{Max GP}) = 8$.
 - 2) Answer **any 5** questions from Section – B. Weightage 1 **each Max. WGP = 20**.
 - 3) Answer **any 5** questions from Section – C. Weightage **2 each. Max WGP = 40**.
 - 4) Answer **any 1** question from Section – D. Weightage **4. Max WGP = 16**.

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is 1.

1. Number are stored and transmitted inside a computer in _____ form.
2. 1 kb corresponds to _____ bits.
3. A 5 variable Karnaugh Map has _____ number of cells.
4. The basic types of programmable arrays are made up of OR gate and _____ gates.
5. The number of outputs on a BCD decoder is _____
6. A Digital Multiplexer can be used as a _____
 - a) Data structure
 - b) Parity checker
 - c) Data Generator
 - d) Check sum



22. Discuss in detail about Parallel in Parallel out register.

23. Discuss about Mod-10 counters.

24. Write notes on decoding gates.

(5×2=10)

SECTION – D

Answer **any one** question. Weightage 4.

25. Write detailed notes about :

- a) ASCII code
- b) Excess-3 codes, providing sufficient examples.

26. Discuss in detail about :

- a) Synchronous counters
- b) Asynchronous counters.

(1×4=4)



M 6484

Reg. No. :

Name :

**II Semester B.Sc. LRP/B.C.A./B.S.W. Degree
(CCSS – Reg./Supple./Improv.) Examination, May 2014
COMMON COURSE IN HINDI**

2A08 2HIN : Prose for Communicative and Creative Skills in Hindi

Time: 3 Hours

Max. Weightage: 30

निर्देश : किसी एक प्रश्न का विस्तारपूर्वक उत्तर लिखिए : (Weightage 4)

1. 'गिल्लू' शीर्षक संस्मरण में लेखिका ने एक गिलहरी को मानवीय संवेदना के व्यापक धरातल पर प्रतिष्ठित किया है। समर्थन कीजिए।

2. 'अपनी-अपनी हैसियत' में परसाईजी ने व्यापारी वर्ग पर कैसा व्यंग्य किया है ? (1×4=4)

निर्देश : किन्हीं तीन प्रश्नों के संक्षिप्त उत्तर लिखिए : (Weightage 2 for each)

3. 'मृत्यु से डरना कोरी मूर्खता है'। विचार कीजिए।

4. 'आइए, हम वृक्ष देवता की अराधना करें' लेख के वृत्तान्त को संक्षेप में लिखिए।

5. प्रो. विराज के अनुसार आनेवाले युग में, कम्प्यूटर से होनेवाले आश्चर्यजनक परिवर्तन और प्रभाव क्या-क्या हैं ?

6. महादेवी और गिल्लू का संबंध कैसा था ?

7. 'मृत्यु का भय' में गांधीजी हमें क्या-उपदेश देते हैं ? (3×2=6)

निर्देश : निम्नलिखित अवतरण पढ़कर प्रत्येक प्रश्न का उत्तर लिखिए। (Weightage 1 for each bunch)

8. "मृत्यु शरीर की ही होती है, आत्मा की नहीं। आत्मा का जन्म भी नहीं होता और मृत्यु भी नहीं।"

अ) यह किस पाठ से उद्धृत है ?

आ) इस पाठ का लेखक कौन है ?



- इ) प्रस्तुत सन्देश कहाँ से लिया गया है ?
- ई) इस वाक्य का अर्थ क्या है ?
9. “उसका यह दौड़ने का क्रम तब तक चलता, जब तक मैं उसे पकड़ने के लिए न उठती”
- अ) यह किस पाठ का वाक्य है ?
- आ) इसकी लेखिका कौन है ?
- इ) यहाँ दौड़नेवाला कौन है ?
- ई) यह किसका कथन है ?
10. “पेड़ों को आत्मीयता से स्पर्श करें तो चेतना का प्रसार होता है।”
- अ) यह किस पाठ का वाक्य है ?
- आ) इसका लेखक कौन है ?
- इ) “आत्मीयता” से क्या तात्पर्य है ?
- ई) इस वाक्य का अर्थ क्या है ?
11. “बिना मेहनत किए तो थाली में रखी रोटी भी मुँह में नहीं जाती।”
- अ) यह वाक्य किस पाठ से उद्धृत है ?
- आ) इस पाठ का लेखक कौन है ?
- इ) किसे मेहनत करना चाहिए ?
- ई) इस वाक्य से क्या समझ सकते हैं ?

(4×1=4)

निर्देश : किसी एक खंड का हिन्दी में अनुवाद कीजिए।

(Weightage 4)

12. In the religious history of India Kabir occupies a place of great importance. He believed in the unity of all religions. For him the true teacher of all religions was love. He condemned idolatry and most of the Hindu ceremonies and rites. He took the Muslims also to task for their intolerance of other faiths.

(importance – महत्व, unity – एकता)

OR



Gopalakrishna Gokhale was one of the great men born in our country. He was not only a great patriot and politician but also a great social worker. He never wasted a minute. His private relations and friendships were all for public good. All his talks had reference only to the good of the country.

(patriot – देश प्रेमी, social worker – समाज सेवक, reference – संबन्ध) (1×4=4)

निर्देश : किसी एक विषय पर निबन्ध लिखिए। (Weightage : 4)

13. 1) विश्वशांति

अथवा

2) स्वावलंबन।

निर्देश : किसी एक विषय पर पत्र लिखिए। (Weightage : 4)

14. माल कम भेजने पर शिकायती पत्र।

अथवा

नौकरी के लिए आवेदन पत्र।

निर्देश : उचित वार्तालाप तैयार कीजिए। (Weightage : 4)

15. धोबी के साथ बातचीत।

अथवा

निर्देश : एक रपट तैयार कीजिए।

सड़क में हुई किसी दुर्घटना की रपट।



BCA

M 6576

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.)

Examination, May 2014

COMPLEMENTARY COURSE IN MATHEMATICS

2C02 MAT (BCA) : Numerical Analysis and Calculus

Time : 3 Hours

Max. Weightage : 30

1. Fill in the blanks :

a) Derivative of $x^{\log x}$ is _____b) $\frac{d}{dx}(a^x)$ is _____c) $\frac{d}{dx} \sinh^{-1} \sqrt{x}$ is _____d) $\lim_{x \rightarrow 1} \frac{\log x}{x-1}$ is _____

1

2. Choose the correct answer from the following :

i) $\int_{-1}^1 x^3 dx$ (0, 1, -1, 2)

ii) $\int_0^1 \int_0^2 dx dy$ (0, 1, 2, -2)

iii) $\int_0^{\pi/2} \sin^2 x dx$ (0, $\pi/4$, $\pi/2$, $\pi/8$)

iv) $\int_0^1 \int_0^2 \int_0^3 dx dy dz$ (1, 2, 5, 6).

1

P.T.O.



Answer **any five** from the following (weightage **1 each**) :

3. Solve $x^3 + x - 1 = 0$ by iteration and choosing $x_0 = 1$.
4. Find the approximate value of $\sqrt{2}$ by Newton's iteration method.
5. Solve $y' = y$, $y(0) = 1$, by Piccard's method.
6. Using Taylor series method solve $y' = x^2 - y$, $y(0) = 1$, at $x = 0.1$.
7. Differentiate $x\sqrt{1-x^2} + \sinh^{-1}(1+x)$.
8. Evaluate $\lim_{x \rightarrow 0} x^x$.
9. Integrate $\sin^6 x$.

10. Evaluate $\int_0^1 \int_0^1 (x+y) dx dy$.

(5×1=5)

Answer **any seven** from the following (weightage **2 each**) :

11. Using Lagrangian interpolation formula find $f(5)$, given $f(1) = -3$, $f(3) = 0$, $f(4) = 30$, $f(6) = 132$.
12. Evaluate $\int_0^1 \frac{dx}{1+x^2}$ using Simpson's rule.
13. If $y' = x + y$, $y(0) = 0$ find $y(1)$ by Euler's method.
14. If $y = x + y^2$, $y(0) = 1$ find $y(0.5)$ by improved Euler's method.
15. If $y = e^x + e^{-x}$, Show that $\frac{d^2y}{dx^2} = y$.
16. Find $\frac{dy}{dx}$ if $y = x^x + (\log x)^{\sin x}$.



17. Evaluate $\lim_{x \rightarrow 0} \left(\frac{1}{x^2} - \frac{1}{\sin^2 x} \right)$.

18. By successive reduction evaluate $\int_0^{\pi/4} \tan^6 x \, dx$.

19. Obtain a reduction formula to evaluate $\int \sec^n x \, dx$.

20. By changing the order of integration evaluate $\int_0^\infty \int_x^\infty \frac{e^{-y}}{y} \, dx \, dy$. (7×2=14)

Answer **any three** from the following (weightage **3 each**) :

21. Using Gauss elimination method,

Solve

$$3x_1 + 2x_2 + x_3 = 3$$

$$2x_1 + x_2 + x_3 = 0$$

$$6x_1 + 2x_2 + 4x_3 = 6.$$

22. Find the inverse of the matrix.

$$\begin{bmatrix} -1 & 1 & 2 \\ 3 & -1 & 1 \\ -1 & 3 & 4 \end{bmatrix} \text{ by Gauss Jordan method.}$$

23. If $y = e^{a \sin^{-1} x}$, Prove that

$$(1-x^2) y_{n+2} - (2n+1) x y_{n+1} - (a^2 + n^2) y_n = 0.$$

24. Find $y(0.8)$ with $h = 0.2$, using Runge-Kutta method, given $y' = x + y$, $y(0) = 0$.

25. Evaluate $\int_0^1 \int_0^{1-x} \int_0^{1-x-y} x \, dx \, dy \, dz$. (3×3=9)



M 8846

Reg. No. :

Name :

**II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A. T.T.M./B.B.A. R.T.M./
B.T.T.M./B.B.M./B.C.A./B.S.W. Degree (CCSS – 2014 Admn. – Regular)
Examination, May 2015
COMMON COURSE IN ENGLISH
2A03 ENG : Communicative English – II**

Time: 3 Hours

Max. Marks : 40

- I. Answer **any one** of the following questions in **not more than 200 words** : (1×6=6)
- 1) Write an essay on the various forms of communication.
 - 2) Do you agree to the view that non-verbal communication is culture-specific and context-dependent ? Explain.
- II. Answer **any one** of the following questions in **not more than 200 words** : (1×6=6)
- 3) What are the barriers to communication ? Explain.
 - 4) Write an essay on effective presentation skills.
- III. Answer **four** of the following questions in **not more than 80 words each** : (4×4=16)
- 5) How can a class magazine be made interesting ?
 - 6) Write a note on interview etiquette.
 - 7) What telephonic skills have to be mastered for effective communication ?
 - 8) How important is the role of body language in interpersonal communication ?
 - 9) What are the different types of e-mails ?
 - 10) Which are the different stages in the process of writing ?
- IV. Answer **any 12** of the following questions as directed : (12×1=12)
- 11) Join the two sentences given below using a noun clause.
Mrs. Roy discovered something. There was no milk or sugar in the house.

P.T.O.



- 12) Underline and identify the type of adverbial clause in the sentence.
The cat is so old that it can no longer chase mice.
- 13) Rewrite the sentence, changing its voice :
Radha gave me a beautiful diary.
- 14) Rewrite into indirect speech :
Rima said, "I love literature".
- 15) Change the following affirmative sentence into a negative one retaining the original meaning :
Gita was always present for every function that we had organised.
- 16) Frame a question that elicits the following answer :
I never refused to help you.
- 17) Combine the following simple sentences to form a compound sentence :
We tried hard. We could not win the match.
- 18) Change the given sentence to a simple sentence :
We didn't want to be late for the meeting, so we left early.
- 19) Insert suitable punctuation marks wherever necessary :
O brave new world said Miranda in wonder.
- 20) Insert a suitable phrasal verb having the same meaning as the word given in brackets :
We could not _____ (reach) an agreement.
- 21) Substitute a suitable idiomatic expression for the underlined portion :
Let's Forget the past bitterness and start working together as a team.
- 22) Fill in the blank with a synonym of the word given in bracket :
You should be _____ (competent) in whatever you do.
- 23) Give the full form of the following acronyms :
CBI, PLD.
- 24) Correct the following sentence :
Your argument compliments mine.
- 25) What do you call something through which light can pass ?



M 8855

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – 2014 Admn. – Regular)
Examination, May 2015
CORE COURSE
2B02 BCA : Digital Systems

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer :**

(8×0.5=4)

- a) In digital computer, _____ is used to represent negative numbers.
- b) The output of a NOR gate is high if all inputs are _____.
- c) An octal digit corresponds to _____ binary digits.
- d) A BCD counter has _____ states.
- e) The number of control lines for a 8 to 1 multiplexer is _____.
- f) The Gray code for decimal number 6 is equivalent to _____.
- g) The device which changes from serial data to parallel data is _____.
- h) The excess 3 code of decimal number 26 is _____.

SECTION – B

Write short notes on **any seven** of the following questions.

(7×2=14)

- 2. State and prove commutative law of Boolean algebra.
- 3. Describe X-OR gate with logic diagram and truth table.
- 4. Simplify the expression $xyz + xyz' + x'z$.
- 5. What are synchronous counters ?
- 6. Convert (110101.101010) to octal and hexadecimal.
- 7. Define a half adder and full adder.

P.T.O.



8. What is a shift register ? Can a shift register be used as a counter ?
9. What is a demultiplexer ? Discuss the differences between a demultiplexer and a decoder.
10. What is meant by triggering of flip flop ?
11. Explain excess-3 code with examples.

SECTION - C

Answer **any four** of the following questions.

(4×3=12)

12. Simplify the Boolean expression $xy + x'z + yz$.
13. Distinguish between minterms and maxterms.
14. State and prove Demorgan's laws.
15. Implement a full adder circuit with a decoder and two OR gates.
16. What is a flip-flop ? What is the difference between a latch and a flip-flop ? List out the application of flip-flop.
17. Explain the following conversions with suitable examples :
 - a) Decimal to octal
 - b) Octal to hexadecimal.

SECTION - D

Write an essay on **any two** of the following questions.

(2×5=10)

18. What are universal gates ? Construct a logic circuit using NAND gates only for the expression $x = A \cdot (B + C)$.
19. Simplify using K Map in SOP form. $f(A, B, C, D) = \sum(0, 2, 8, 9, 10, 11, 14, 15)$.
20. Explain the working of SR flip-flops.
21. Explain with necessary diagram a Mod - 10 Shift Counter with encoding.



M 8707

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – Supple./Improv.)
Examination, May 2015
(2013 and Earlier Admn.)
Core Course 2B03BCA : DIGITAL SYSTEMS

Time : 3 Hours

Max. Weightage : 21

- Instructions :**
- 1) Answer **all** questions from Section A. Weightage for a bunch of **four** questions is **1**. Maximum weighted grade point **1(w) × 2 (bunch) × 4 (Max GP) = 8**.
 - 2) Answer **any 5** questions from Section B, weightage **1 each**.
Max WGP = 20.
 - 3) Answer **any 5** questions from Section C, weightage **2 each**.
Max. WGP = 40.
 - 4) Answer **any 1** question from Section D, weightage **4**.
Max. WGP = 16.

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. The number of select lines required for an 8 line to 1 line MUX is
2. The terminal count of a modulus-11 binary counter is
 - a) 1010
 - b) 1011
 - c) 1001
 - d) 1111
3. The number of bits present in an ASCII Character is
4. _____ code is also known as self-complementary code.
5. Which of the following is a two level logic gate.
 - a) NAND
 - b) XOR
 - c) OR
 - d) NOT
6. The logic circuit that can store one bit of information is known as
7. The output value of an XNOR gate when I/P combination is $x = 0$ and $y = 0$ is
8. The decimal equivalent of binary 01011 is (2×1=2)

P.T.O.



SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. What is a truth table ? Give eg.
10. Discuss about NAND gates.
11. Discuss Demorgan's law.
12. Discuss about full adder.
13. Discuss about Octal and Hexadecimal number system.
14. Discuss about parallel in serial out registers.
15. What are positive edge triggered D flip-flops ?
16. How a synchronous counter can be build using a J-K Flip-Flop ?

(5×1=5)

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

17. Discuss in detail about logic gates.
18. Write notes on Laws of Boolean Algebra.
19. Write notes on parity generators and checkers.
20. Discuss in detail about K-map.
21. Differentiate between JK and D flip-flops with necessary diagrams.
22. Explain in detail about serial in serial out and serial in parallel out registers.
23. Differentiate between asynchronous and synchronous counters.
24. Write notes on decade counters.

(5×2=10)

SECTION – D

Answer **any one** question. Weightage **4**.

25. With necessary diagrams discuss in detail about encoders and its types.
26. Explain in detail about the concept of flip-flops.

(1×4=4)

M 8828

Reg. No. :

Name :

**II Semester B.Sc. L.R.P./B.C.A./B.S.W. Degree (CCSS – 2014 Admn. –
Regular) Examination, May 2015**
COMMON COURSE IN HINDI
2A08 2HIN : Vyavaharik Hindi

Time : 3 Hours

Max. Marks : 40

- I. कम से कम 300 शब्दों में किसी एक विषय पर निबन्ध लिखिए।
- 1) विद्यार्थी और राजनीति - इस पर अपना मत व्यक्त कीजिए।
 - 2) भारत में नारी का स्थान आप को कैसे लगता है ? (1×7=7)

II. किन्हीं दो प्रश्नों के उत्तर लिखिए।

- 3) 'विवेकानन्द कॉलेज' - नई दिल्ली में एक लिपिक का पद खाली है। अपनी योग्यताएँ बताते हुए एक पत्र तैयार कीजिए।
- 4) आपके इलाके में बिजली बीच-बीच में चली जाती है। इसका उल्लेख करते हुए बिजली-घर के अधीक्षक के नाम एक पत्र लिखिए।
- 5) अपने घर में जन्म दिन समारोह में शामिल होने के लिए अपने मित्र को एक निमंत्रण पत्र लिखिए। (2×4=8)

III. किसी एक गद्यांश का हिन्दी में अनुवाद कीजिए।

- 6) Newspapers are one of the signs of civilization. The more a country is educated, the greater is the demand for newspapers, for an educated man is always eager to know what is going on in the world and this information he can have only through the medium of newspapers. The primary function of a paper is to supply as with all sorts of news, local and foreign. It gives us information of what is going on in our own country and other parts of the world. As a matter of fact a newspaper is a sort of contemporary history.
- 7) A merchant who had several clerks, found that one of them was in the habit of coming late to the office. He warned him that his conduct would lead him in to trouble and told him that he had better mend his ways. The clerk replied that the fault was not his but that of his watch, which did not keep good time, after a few days, he was late again and the merchant said to him "Tomorrow either you or I will have something new" "What is that Sir?" asked that men. "Either you will have a new watch or I shall have a new clerk" replied his master. (1×5=5)

P.T.O.



IV. किसी एक गद्यांश का अंग्रेज़ी में अनुवाद कीजिए।

8) मनुष्य सामाजिक जीव है। वह अकेला नहीं रह सकता। लोगों से मिलकर वह अपना काम चलाता है। उसे अपनी आवश्यकताओं के लिए लोगों से मिलना-जुलना पड़ता है। इसलिए सवारी की आवश्यकता हुई। हम पहले पैदल यात्रा करते थे। पुराने ज़माने में सड़कें नहीं थीं। धीरे-धीरे यातायात के साधनों में वृद्धि होने लगी। यातायात के साधनों का विकास मनुष्य जाती की उन्नति का प्रतीक माना जाने लगा। भारत में यातायात का विकास तेजी से हो रहा है। मनुष्य के विकास में यातायात के साधनों का भी महत्वपूर्ण हाथ है।

9) आजकल देश में शिक्षा का प्रसार तेज़ी से बढ़ रहा है। लोग अपने लड़कों और लड़कियों को पढ़ाने में अधिक रुचि लेने लगे हैं। यद्यपि गाँवों में पाठशालाओं की संख्या संतोषजनक नहीं है, तो भी शहरों में स्कूलों की संख्या बहुत बढ़ गयी है। वर्तमान शिक्षा के कारण देश में पढ़े-लिखे लोगों की संख्या बढ़ रही है। यह देश की प्रगति का शुभ चिह्न है। भारतवर्ष में निरक्षरता को दूर करने के लिए बड़ी कोशिश की जा रही है। सच्ची शिक्षा वही है, जिससे मनुष्य की शारीरिक, मानसिक और आध्यात्मिक शक्तियों का पूर्ण विकास हो। (1×5=5)

V. निम्नलिखित प्रश्नों के निर्देशानुसार उत्तर लिखिए।

10) निम्नलिखित मुहावरों का सही अर्थ लिखिए।

i) क) अन्धे की लकड़ी

ख) कमर कसना

ग) उन्नीस बीस होना

घ) हाथ मलना

ii) क) जलती आग में घी डालना

ख) गागर में सागर होना

ग) श्रीगणेश करना

घ) अपना उल्लू सीधा करना। (2×2=4)

11) निम्नलिखित कहावतों का सही अर्थ लिखिए।

i) क) अंधों में काना राजा

ख) एक और एक ग्यारह

ग) घर की मुर्गी दाल बराबर

घ) खोदा पहाड़ निकली चुहिया।



- ii) क) जान है तो जहान है
ख) बहती गंगा में हाथ धोना
ग) न रहे बाँस न बजे बाँसुरी
घ) छोटे मुँह बड़ी बात ।

(2×2=4)

VI. निर्देश के आधार पर सही उत्तर लिखिए ।

12) निम्नलिखित वाक्य पढ़कर उसमें से संज्ञा, सर्वनाम, विशेषण और क्रिया शब्दों को चुनकर लिखिए ।

कृष्ण के चरणों में सुंदर नूपुर बजते हुए मधुर ध्वनि कर रहे हैं । उनकी कमर में करधनी का मधुर स्वर किनकिना रहा है ।

13) खाली जगहों को प्रत्ययों से भरिए ।

सच्चा मित्र जीवन _____ सफलता _____ कुंजी है । मित्र _____ सुख और सौभाग्य की चिंता करनेवाला सच्चा मित्र बड़े भाग्य _____ मिलता है ।

14) सहायक क्रियाओं को बदले बिना निम्नलिखित वाक्यों को शुद्ध कीजिए ।

क) तुम मोहन को देखना चाहिए ।

ख) मैंने घर जाना पड़ता है ।

ग) राजू ने पढ़ चुका ।

घ) गीता ने रोनी लगी ।

15) वाच्य बदलिए ।

क) मुझसे खत नहीं लिखा गया ।

ख) उमेश हँसा ।

ग) पक्षी आकाश में उड़ते हैं ।

घ) सोहन सिनेमा नहीं देखता ।

16) संज्ञा के कितने भेद हैं ? सोदाहरण समझाइए ।

17) भूतकाल के भेद क्या-क्या हैं ?

18) कारक के भेद क्या-क्या हैं ? उदाहरणसहित समझाइए ।

(7×1=7)



M 8847

Reg. No. :

Name :

**II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.R.T.M./B.B.A.T.T.M./B.T.T.M./
B.B.M./B.C.A./B.S.W. Degree (CCSS-2014 Admn. – Regular)
Examination, May 2015
COMMON COURSE IN ENGLISH
2A04 ENG : Language Through Literature – II**

Time: 3 Hours

Max. Marks : 40

- I. Write an essay of **200** words on **one** of the following : **(1×8=8)**
- 1) How does Edward O. Wilson address the issue of environmental degradation in his essay "Is Humanity Suicidal" ?
 - 2) How does Barry Lopez assert that our ideas about the working of the world emerge from observations and discoveries we make as children ?
- II. Write an essay of **200** words on **one** of the following : **(1×8=8)**
- 3) " 'Going, Going' is essentially an urban poem". Discuss.
 - 4) In what way does the personal tragedy of the director represent the destruction caused by the Tsunami.
- III. Answer **three** of the following in about **80** words. **(3×4=12)**
- 5) What was Jaidev's first experience in the hill of Salanda ?
 - 6) What are the chief concerns of environmentalism ?
 - 7) How does the destruction of nature affect human beings and the universe according to Philip Larkin ?
 - 8) What can we learn from hermit crabs ?
- IV. Answer **six** of the following in not more than **two** sentences : **(6×1=6)**
- 9) Why is the environmentalist school uneasy with ecofeminism ?
 - 10) What happens to the farm animals mentioned in Rachel Carson's story ?
 - 11) Why were the Nicobar Islands at a disadvantage compared to their northern neighbours ?

P.T.O.



- 12) According to Compesino, what would be a more undignified method of death than death by drowning ?
- 13) Describe the hermit crab's environment.
- 14) Why were the hills of Salanda important to Jaidev ?
- 15) How did the Director's son save himself ?
- 16) When was Endosulfan spraying stopped ?

V. Answer **six** of the following :

(6×1=6)

- 17) What do you mean by portmanteau words ?
- 18) What is pyromania ?
- 19) What is meant by the idiom "head in the clouds" ?
- 20) Complete the proverb :
_____ is worth two in the bush.
- 21) What is meant by 'putsch' ?
- 22) What is meant by 'global warming' ?
- 23) What is meant by 'perennial' ?
- 24) Write two words with the prefix 'extra'.



M 8875

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – 2014 Admn. – Regular)
Examination, May 2015
COMPLEMENTARY COURSE IN MATHEMATICS
2C02 MAT – BCA : Mathematics for BCA – II

Time: 3 Hours

Max. Marks : 40

SECTION – A

All the **first 4** questions are **compulsory**. They carry **1 mark each**.

1. Give an example of a non-zero 3×3 skew symmetric matrix.
2. Find the algebraic multiplicity of the eigen-value of the matrix $\begin{bmatrix} 3 & 2 \\ 0 & 3 \end{bmatrix}$.
3. State the Cayley Hamilton Theorem.
4. What is the maximum degree of any vertex in a graph with n vertices ? **(4×1=4)**

SECTION – B

Answer **any 7** questions from among the questions **5 to 13**. They carry **2 marks each**.

5. Find the area bounded by the ellipse $x^2/a^2 + y^2/b^2 = 1$.
6. Find the whole length of the astroid $x^{2/3} + y^{2/3} = a^{2/3}$.

P.T.O.



7. Find the rank and a basis for the column space of the matrix $\begin{bmatrix} 1 & -2 \\ 0 & 0 \\ -3 & 6 \end{bmatrix}$.
8. Give any two elementary row operations for matrices.
9. Show by example that $\text{rank } A = \text{rank } B$ does not imply $\text{rank } A^2 = \text{rank } B^2$.
10. Show that the transpose of a square matrix A has the same eigenvalue as A .
11. Show that the number of vertices of odd degree in any graph is even.
12. Find two non-isomorphic graphs with degree sequence $(2, 2, 2, 1, 1)$.
13. If δ and Δ denote the minimum and maximum vertex degrees in a (p, q) graph, show that $\delta \leq \frac{2q}{p} \leq \Delta$. (7×2=14)

SECTION - C

Answer **any 4** questions from among the questions **14** to **19**. They carry **3** marks each.

14. Evaluate $\iint xy(x+y) \, dx \, dy$ over the area between $y = x^2$ and $y = x$.
15. Obtain the intrinsic equation of the catenary $y = a \cosh(x/a)$ taking the vertex $(0, a)$ as the fixed point.
16. Solve by Gauss elimination method :
- $$\begin{aligned} x_1 - x_2 + x_3 &= 0 \\ -x_1 + x_2 - x_3 &= 0 \\ 10x_2 + 25x_3 &= 90 \\ 20x_1 + 10x_2 &= 80 \end{aligned}$$



17. Find the eigen vectors of $\begin{bmatrix} -2 & 2 & -3 \\ 2 & 1 & -6 \\ -1 & -2 & 0 \end{bmatrix}$.

18. Show that every square matrix can be expressed as the sum of two matrices of which one is symmetric and the other skew symmetric.

19. Show that in any graph, a closed walk of odd length contains a cycle. **(4×3=12)**

SECTION – D

Answer **any 2** questions from among the questions **20** to **23**. They carry **5** marks each.

20. Evaluate $\iiint_V (2x + y) \, dx \, dy \, dz$ where V is the closed region bounded by the cylinder $z = 4 - x^2$ and the planes $x = 0$, $y = 0$, $y = 2$ and $z = 0$.

21. Solve by Cramer's rule :

$$3y + 4z = 14.8$$

$$4x + 2y - z = -6.3$$

$$x - y + 5z = 13.5.$$

22. Find an eigen basis and diagonalize.

$$\begin{bmatrix} 1 & 0 & 1 \\ 0 & 3 & 2 \\ 0 & 0 & 2 \end{bmatrix}$$

23. Show that the maximum number of lines among all p point graphs with no triangles

is $\left\lfloor \frac{p^2}{4} \right\rfloor$.

(2×5=10)

Reg. No. :

Name :

**II Semester B.C.A. Degree (CCSS – Supple./Improv.)
Examination, May 2015
(2013 and Earlier Adm.)
COMPLEMENTARY COURSE IN MATHEMATICS
2C02 MAT (BCA) : Numerical Analysis and Calculus**

Time : 3 Hours

Max. Weightage : 30

1. Fill in the blanks.

a) Derivative of $\sinh^{-1}x$ is _____.

b) $\frac{d}{dx}(a^x)$ is _____.

c) $\frac{d}{dx} \log \sin x$ is _____.

d) $\lim_{x \rightarrow 0} \frac{1 - \cos 2x}{x^2}$ is _____.

1

2. Choose the correct answer.

i) $\int_{-\pi/2}^{\pi/2} \sin x \, dx$

(0, 1, 2, 1/2)

ii) $\int_0^1 \log(e^x) \, dx$

(0, 1, 2, 1/2)



iii) $\int_0^1 \int_0^1 dx dy$

(0, 1, 2, $\frac{1}{2}$)

iv) $\lim_{x \rightarrow 0} \frac{1 - \cos 2x - \sin^2 x + \tan^2 x}{x^2}$

(-2, -1, 0, 2)

1

Answer **any five** from the following. (weightage 1 each)

3. Solve $x^3 - 3x + 1 = 0$ by fixed point iteration method.

4. By Newton's method, solve the equation $x^3 + x - 1 = 0$.

5. Solve $y' = 1 + y^2$, $y(0) = 0$, by Piccard's method.

6. Using Taylor series method, solve $\frac{dy}{dx} = x^2 - y$, $y(0) = 1$ at $x = 0.1$.

7. Differentiate $x \sinh^{-1}x + \coth x + \sqrt{1-x^2}$.

8. Evaluate $\lim_{x \rightarrow 0} (1+x)^{1/x}$.

9. Integrate $x^3 e^{2x}$.

10. Evaluate $\int_0^1 \int_0^x dx dy$.

(Wt. 5x1=5)

Answer **any seven** from the following (weightage 2 each)

11. Using Lagrangian interpolation formula, find $f(5)$, given $f(1) = 3$, $f(3) = 0$, $f(4) = 30$, $f(6) = 132$.

12. Evaluate $\int_0^1 x^3 dx$ using trapezoidal rule considering five sub intervals.

13. By Euler's method solve $y' = x + y$, $y(0) = 0$, when $x = 1$, by choosing $h = 0.2$.

14. Solve $y' = y$, $y(0) = 1$, $h = 0.1$ by improved Euler method (3 steps).

15. If $x\sqrt{1+y} + y\sqrt{1+x} = 0$, find $\frac{d^2y}{dx^2}$ as a function of x given, $x \neq y$.



16. Find $\frac{dy}{dx}$ if $(\sin x)^y = (\sin y)^x$.

17. Evaluate $\lim_{x \rightarrow \infty} \frac{e^x}{x^3}$.

18. If $I_n = \int \sec^n x \, dx$, show that
 $(n - 1) I_n = \sec^{n-2} x \tan x + (n - 2) I_{n-2}$.

19. Evaluate $\int_0^{\pi/2} \sin^4 x \, dx$.

20. By changing the order of integration evaluate $\int_0^1 \int_{x^2}^{2-x} xy \, dx \, dy$. (Wt. 7×2=14)

Answer **any three** from the following (weightage **3 each**).

21. If $y = \sin(a \sin^{-1} x)$, show that
 $(1 - x^2)y_{n+2} - (2n + 1)y_{n+1} - (n^2 - a^2)y_n = 0$

22. Evaluate $\iiint_V (x + y + z + 1)^2 \, dx \, dy \, dz$ where v is the volume bounded by $x, y, z \geq 0$,
 $x + y + z \leq 1$.

23. Using Gauss elimination method, solve

$$-x_1 + x_2 + 2x_3 = 2$$

$$3x_1 - x_2 + x_3 = 6$$

$$-x_1 + 3x_2 + 4x_3 = 4$$

24. Using Runge-Kutta method find $y(0.8)$ with $h = 0.2$, given $\frac{dy}{dx} = x + y$, $y(0) = 0$.

25. Find the inverse of the matrix

$$\begin{bmatrix} -1 & 1 & 2 \\ 3 & -1 & 1 \\ -1 & 3 & 4 \end{bmatrix} \text{ by Gauss Jordan method.}$$

(Wt. 3×3=9).



M 8708

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – Supple./Improv.)
Examination, May 2015
(2013 and Earlier Admn.)
CORE COURSE
2B04 BCA : Object Oriented Programming and C++

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. The existing class can be reused by
 - a) dynamic binding
 - b) polymorphism
 - c) inheritance
 - d) data encapsulation
2. The #define preprocessor directive can be used for defining
 - a) header file
 - b) symbolic constants
 - c) constant pointers
 - d) variables
3. What can a class of C++ hold that a structure of C cannot ?
 - a) Data
 - b) Variables
 - c) Functions
 - d) All of the above
4. A non-member function that can access the private data of a class is known as
 - a) inline function
 - b) virtual function
 - c) recursive function
 - d) friend function
5. Constructor has the same name as
 - a) the object they belong to
 - b) the current program file
 - c) the class name they belong to
 - d) class name preceded by ~

P.T.O.



6. Which of the following conversion is automatically carried by the compiler ?

- a) conversion from basic data to user defined data type (class type)
- b) conversion from class type to basic data type
- c) conversion from one class type to another class type
- d) none of these

7. When a class is not used for creating objects, it is known as

- a) base class
- b) friend class
- c) abstract class
- d) local class

8. The write () performs writing in

- a) BCD format
- b) ASCII format
- c) Binary format
- d) Both a) and b)

(2x1=2)

SECTION - B

Answer **any five** questions. Weightage **one each**.

9. What is meant by delegation ?

10. Explain the use of continue statement.

11. Give syntax of if – else ladder.

12. What is an object ?

13. What are constant arguments ?

14. Explain the use of private keyword.

15. What is a stream ?

16. List any four file modes parameters with meaning.

(5x1=5)



Reg. No. :

SECTION – C

Answer **any 5** questions. Weightage **two each**.

- 17. What is polymorphism ? Explain with an example.
- 18. Explain the syntax of a switch statement with example.
- 19. Demonstrate unary operator overloading with an example.
- 20. Summarize the base class member accessibility in a derived class under various types of inheritance.
- 21. Discuss the stream classes available in C++.
- 22. Explain the new and delete operators in C++.
- 23. What is a constructor ? Explain the parameterized constructor with an example.
- 24. Explain the input and output operations on files in C++. (5×2=10)

SECTION – D

Answer **any one** question. Weightage **4**.

- 25. Discuss the basic concepts of object oriented programming.
- 26. a) Explain file pointers and their manipulators.
b) Write a program to copy the content of one file to another file. (1×4=4)



M 8856

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – 2014 Admn. – Regular)
Examination, May 2015
CORE COURSE

2B03 BCA : Object Oriented Programming Using C++

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer :

- a) The method by which object of one class gets the properties of objects of another class is known as _____
- b) In C++, _____ facility is used to implement communication between various objects.
- c) A function which is not in the scope of the class, but it has full access to the private data members of the class is known as _____
- d) A constructor that accepts no parameters is called the _____ constructor.
- e) If all the member functions of one class act as friend functions of another class, then the former class is called _____
- f) _____ operator is used in C++ to dynamically allocate the memory.
- g) In C++, the concept of _____ provides a facility to assign values to function parameters when the function is declared.
- h) The symbol ~ is used to represent _____ (8×1/2=4)

SECTION – B

Write short notes on **any seven** of the following questions.

2. Distinguish between data abstraction and encapsulation.
3. Explain dynamic initialization of variables.
4. What does polymorphism means in C++ language ?
5. List out the different uses of scope resolution operator.

P.T.O.



6. How dynamic initialization of objects is achieved in C++ ?
7. Differentiate between static data members and static member functions.
8. Explain the concept of reference variables with example.
9. Explain about virtual base class.
10. Differentiate between istream and ostream in C++.
11. Describe any two file stream classes. (7×2=14)

SECTION – C

Answer **any four** of the following questions.

12. What are the advantages of using an in-line function ?
13. Compare private, public and protected data.
14. Write a program to create a class string. Overload == operator to compare two strings.
15. Differentiate between constant pointer and pointer to a constant.
16. Write a C++ program to add two complex numbers.
17. Write a C++ program to read a list of names from a file and output the list. (4×3=12)

SECTION – D

Write an essay on **any two** of the following questions.

18. Explain different types of inheritance with example.
19. What do you mean by a friend function ? Explain with help of an example program, how friend functions act as a bridge between two different classes.
20. Explain the role of virtual functions in implementing run-time polymorphism.
21. Write short notes on :
- a) Operator overloading.
 - b) Manipulators in C++.
- (2×5=10)



M 8619

Reg. No. :

Name :

II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A. T.T.M./B.B.M./B.C.A./B.S.W.
Degree (CCSS – Supple./Improv.) Examination, May 2015
(2013 and Earlier Admn.)

COMMON COURSE IN ENGLISH

2A04 ENGLISH : Reading Literatures in English

Time: 3 Hours

Max. Weightage : 30

- I. Write an essay of about **200** words on **any one** of the following :
- 1) The life and career of Kalamandalam Gopi.
 - 2) Judy Brady's criticism of the master-servant relationship between the husband and wife. **(Weightage 4)**
- II. Write an essay of about **200** words on **any one** of the following :
- 3) The loss of old values of life in the modern society as depicted in *Once Upon a Time*.
 - 4) The message of the poem *Ozymandias*. **(Weightage 4)**
- III. Write an essay of about **200** words on **any one** of the following :
- 5) How does Antony manage to turn the mob against the conspirators ?
 - 6) The different thoughts regarding revenge in the mind of the *Avenger*. **(Weightage 4)**
- IV. Annotate **any four** of the following, **each** in about **80** words :
- 7) Can I see another's woe, / And not share their sorrow too ? / O no, never, can it be, / Never, never can it be.
 - 8) He was much senior to me and was popular because of his cricket.

P.T.O.



- 9) The same thing may be said of the doings of Americans in Haiti and Central America, and of imperialist doings generally.
- 10) In every voice, in every ban, / The mind-forg'd manacles I hear.
- 11) 'My name is Ozymandias, king of kings: / Look on my works, ye Mighty, and despair !
(Weightage 4×2=8)

V. Answer the **four** bunches of four questions **each**, given below :

12) A) _____ is the hero of the play *When Lincoln Came to Pittsburgh*.

- a) Mark
b) Spike
c) John
d) Mrs. Goucher

B) The Doctor did not go to see Lincoln at Pittsburgh because

- a) he was not interested in seeing the President
b) he was politically opposed to Lincoln
c) he wanted to do some shopping
d) he wanted to go on his round of house calls

C) Nervii is the name of a

- a) place
b) person
c) tribe
d) thing

D) Antony claims that Caesar's will gifted

- a) 75 drachmas
b) 750 drachmas
c) 200 drachmas
d) 5 drachmas to every citizen of Rome

13) A) Russian prisoners had to serve penal servitude in

- a) Moscow
b) Pittsburgh
c) Siberia
d) St. Petersburg

B) After taking the final decision Fedor Sigaev bought a

- a) Smith-Wesson
b) Mortimer
c) French Pistol
d) Net for catching quail



- C) Sigaev's final decision was to
- a) initiate divorce proceedings against his unfaithful wife
 - b) kill both his wife and her lover
 - c) kill her lover and let her go
 - d) kill his wife
- D) The army officer who fired at his wife's seducer and wounded his wife was
- a) executed
 - b) killed by soldiers
 - c) was deported to Saghalin
 - d) was acquitted
- 14) A) Kabir was a
- a) character in Mahabharatha
 - b) a character in Ramayana
 - c) novelist
 - d) a renowned saint and poet
- B) *Grandfather* is a poem written by
- a) Kamala Das
 - b) Gabriel Okara
 - c) R. Viswanathan
 - d) Yashwant Vaghela
- C) In the opinion of WB Yeats 'in times like these' the best thing for a poet is
- a) to raise his voice
 - b) to act
 - c) to keep his mouth shut
 - d) not to keep his mouth shut
- D) The poem *London* was written by
- a) Keats
 - b) Yeats
 - c) Blake
 - d) Shelley
- 15) A) Kottakkal Sivaraman specialised in the role of
- a) hero
 - b) villain
 - c) heroine
 - d) comedian
- B) In *Why I Want a wife* the speaker is
- a) male
 - b) female
 - c) Judy Brady's friend
 - d) Judy's husband
- C) Every emotion _____ judgment.
- a) distorts
 - b) blocks
 - c) promotes
 - d) unifies
- D) Miss Beans' school is a
- a) girls only school
 - b) boy's school
 - c) co-ed school
 - d) special school **(Weightage 4x1=4)**



VI. Answer **any six** of the following questions, **each in a sentence or two** :

- 16) What was *majlis* that Nehru mentions in his essay ?
- 17) According to Russell what kind of newspapers do people buy ?
- 18) What is *hors d'oeuvres* ?
- 19) The last two lines of the sonnet forms a unit. What is it called ?
- 20) What is the country to which *Ozymandias* belonged ?
- 21) When is revenge most sweet, in Fedor Sigaev's view ?
- 22) What was Brutus' main charge against Caesar ? **(Weightage 6×1=6)**



M 8618

Reg. No. :

Name :

II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A. T.T.M./B.B.M./B.C.A./B.S.W.
Degree (CCSS – Supple/Improv.) Examination, May 2015

Common Course in English

2A03 ENG : READINGS ON INDIAN CONSTITUTION, SECULARISM
AND ENVIRONMENT
(2013 & Earlier Adm.)

Time : 3 Hours

Max. Weightage : 30

I. Answer **any one** of the following questions in about **200** words :

- 1) The poem 'A Telephone Conversation' is a strong statement against racial discrimination. Explain.
- 2) In the light of Tagore's story 'The Exercise Book' explain how the sudden onset of marriage wrecks Uma's development into a capable human being.

(Weightage 4)

II. Answer **any one** of the following questions in about **200** words :

- 3) What is NBA and what is its impact on development paradigms, as you understand from the interview with Medha Patkar ?
- 4) What do you understand about centre-state relations and the Constitution from the speech of Nani Palkhivala ?

(Weightage 4)

III. Answer **any one** of the following in about **200** words :

- 5) Write a letter to the District Collector complaining about the indiscriminate cutting down of trees on both sides of the National Highway.
- 6) Write an analysis of the poem given below :

The Black Finger : Angelina W Grimke

I have just seen a beautiful thing,

Slim and still,

Against a gold, gold sky,

P.T.O.



A straight cypress,
 Sensitives,
 Exquisite,
 A black finger pointing upwards.
 Why, beautiful, still finger are you black ?
 And why are you pointing upwards ?

(Weightage 4)

IV. Answer **any four** of the following questions **each** in a paragraph of about **80** words :

- 7) The mother in the poem *Ecology* by A K Ramanujam.
- 8) The drowning princess incident in Kottarathil Sankunni's *A Hindu Princess and her Islamic Dynasty*.
- 9) Comment on the title of the poem *The Election* by Sitakant Mahapatra.
- 10) Textbook production, examination and forest wealth.
- 11) What is your concept of development ? (Weightage 4x2=8)

V. Answer the **four** bunches of four questions **each** given below :

- A) 12) The award for the Greenest School went for the first time to
 - a) An English-medium public school in Delhi
 - b) Sholai School of Kodaikanal
 - c) The Government school in Boormajara village of Ropar District, Punjab
 - d) A Private School
- 13) The Chipco Movement was led by
 - a) Medha Patkar
 - b) Sunderlal Bahuguna
 - c) Baba Amte
 - d) Mahatma Gandhi
- 14) The princess refused to enter the palace because
 - a) The other women in the palace hated her after the drowning incident
 - b) She fell in love with the Muslim youth
 - c) She considered herself an outcast as the Muslim youth had held her hand and given her a cloth
 - d) She was afraid of her uncle
- 15) Sitakant Mahapatra is a poet who belongs to
 - a) Delhi
 - b) Maharashtra
 - c) Orissa
 - d) Punjab



- B) 16) Palkhivala states that
- a) The states must control the centre
 - b) The centre must control the states
 - c) The centre subverts the Constitution by depriving the states of their rights
 - d) There is no power struggle between the states and the centre
- 17) Barbie Doll is a poem written by
- a) Kamala Das
 - b) Srikant Mahapatra
 - c) Marge Piercy
 - d) AK Ramanujan
- 18) On seeing the contents of Uma's Exercise Book, Pyarimohan
- a) Was delighted
 - b) Praised his wife's talent as a writer
 - c) Read out her compositions in a loud voice making fun of her
 - d) Called her brother
- 19) Ramu was unwilling to reveal his date of birth because
- a) He did not know the date of his birth
 - b) He did not want others to know his age
 - c) He did not want anyone to make a horoscope for him
 - d) He was superstitious
- C) 20) The telephone conversation is a poem about
- a) Love
 - b) Modern age
 - c) Colour prejudice
 - d) Urban life
- 21) The cook considered the children as 'savages' because
- a) They ate too much
 - b) They were not fashionably dressed
 - c) They did not use spoon and fork to eat
 - d) They were Indians
- 22) According to the poet Raju Solanki what grows in the garden of his rivals mind are
- a) The seeds of love
 - b) The weeds of hate
 - c) Flowering plants
 - d) Leafy plants
- 23) Kumud Pawde's desire to do MA in Sanskrit was discouraged by others because
- a) She was a woman
 - b) She was a Dalit woman
 - c) She was a high-caste woman
 - d) She was poor in studies

Reg. No.:

Name :

II Semester B.Sc. LRP/B.C.A/B.S.W. Degree Examination, May 2015

(CCSS - 2014 Admn. - Regular)

COMMON COURSE IN MALAYALAM

2 A 08 2 MAL : സാഹിത്യവിഭാഗങ്ങൾ

Time : 3 Hours

Max. Marks : 40

I. 300 വാക്കിൽ കവിയാതെ ഏതെങ്കിലും രണ്ടു ചോദ്യങ്ങൾക്ക് ഉത്തരമെഴുതുക.

- 1) മനുഷ്യനും മൃഗങ്ങളും തമ്മിലുണ്ടായിരുന്ന ആത്മബന്ധം ആവിഷ്കരിക്കുന്ന കഥയാണ് 'മാണിക്കൻ' - വിശദീകരിക്കുക.
- 2) പി. എം. താജ് 'രാവുണ്ണി'യിലെ ആക്ഷേപഹാസ്യത്തിലൂടെ തുറന്നു കാട്ടുന്ന സാമൂഹികാവസ്ഥ വിശദമാക്കുക.
- 3) "ആയുസ്സിന്റെ പുസ്തകം" എന്ന നോവൽ ഏറെ ശ്രദ്ധിക്കപ്പെട്ടത് ബൈബിളിന്റെ അഗാധസ്വാധീനമുള്ള അതിലെ ആഖ്യാനശൈലിയുടേയും ഭാഷയുടേയും പേരിലാണ് - പരിശോധിക്കുക.
- 4) 'പ്രാഞ്ചിയേട്ടൻ' എന്ന തിരക്കഥ അവതരിപ്പിക്കുന്ന സാമൂഹിക വിമർശനം ചർച്ച ചെയ്യുക. (2x7=14)

II. നൂറ്റമ്പതു വാക്കിൽ കവിയാതെ ആറു ചോദ്യങ്ങളിൽ നാലെണ്ണത്തിന് ഉത്തരമെഴുതുക.

- 5) 'പഴയ ഒരു ജനപദം അയാൾ നോക്കി നിൽക്കെ മാഞ്ഞുപോയി' ഇവിടെ സാക്ഷിയാകുന്നതിന്റെ അനുഭവം വിശദീകരിക്കുക.
- 6) "നിൽക്കട്ടെ. ഇപ്പോഴത് അങ്ങുന്നിന്റെയാ. നാളെയോ രജിസ്ട്രേഷൻ. കാലത്തുതന്നെ കുളിച്ച് ജപിച്ച് രജിസ്ട്രാഫീസിലേക്ക് പോന്നോളൂ." - സന്ദർഭമെഴുതി ആക്ഷേപഹാസ്യം വിശദീകരിക്കുക.
- 7) "നീയൊണ്ണു പൊറഞ്ഞൊങ്ങി നോക്കടൊ ചൂലേ ! ഒരു തമ്പാൻ ചമഞ്ഞു നടക്കുണ പ്രമാണി" - ആരുടെ വാക്കുകൾ ? വിശദമാക്കുക.
- 8) 'സന്തോഷത്തോടെ നോക്കുമ്പോൾ ഞെട്ടലോടെ കണ്ടു ; ഭാര്യയുടെ കഴുത്തിൽ സ്വർണ്ണമാല ഇല്ല' - വിശദീകരിക്കുക.
- 9) "ആയുസ്സിന്റെ പുസ്തകം" എന്ന നോവലിലെ 'യോഹന്നാൻ' എന്ന കഥാപാത്രത്തെ പരിചയപ്പെടുത്തുക.
- 10) 'കൂടാരം' എന്ന കഥക്ക് പഠനക്കുറിപ്പെഴുതുക. (4x3=12)



M 6546

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.)

Examination, May 2014

CORE COURSE

2B04 BCA : Object Oriented Programming and C++

Time : 3 Hours

Max. Weightage : 21

SECTION – A

I. Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. The mechanism of packing of data and functions into a single component is known as _____

- | | |
|---------------------|-----------------------|
| a) Delegation | b) Data encapsulation |
| c) Data abstraction | d) Inheritance |

2. The loop statement terminated by semi colon is _____

- | | |
|------------------|---------------------|
| a) While loops | b) For loop |
| c) Do while loop | d) All of the above |

3. C++ provides inline functions to facilitate reduce function call overhead, mainly for

- | | |
|--------------------|---------------------|
| a) Small functions | b) Member functions |
| c) Large functions | d) All of the above |

4. A class declared inside a function is known as _____

- | | |
|-------------------|----------------------|
| a) Abstract class | b) Friend class |
| c) Local class | d) None of the above |

P.T.O.



5. The constructor without arguments is known as _____
- a) Copy constructor
 - b) Parameterized constructor
 - c) Default constructor
 - d) None of the above
6. The operator >> is known as _____ operator.
- a) Insertion operator
 - b) Extraction operator
 - c) Member operator
 - d) Address operator
7. The file manipulator ios::app sets pointer
- a) To end of file
 - b) To beginning of file
 - c) In the middle of file
 - d) None of the above
8. The put () function writes _____
- a) Object
 - b) Single character
 - c) String
 - d) None of the above
- (2×1=2)**

SECTION – B

Answer **any five** questions. Weightage **one each**.

- 9. What are the fundamental data types in C++ ?
 - 10. What is the difference between a while and do-while loop ?
 - 11. Explain the function prototype.
 - 12. What is static data member ?
 - 13. What is use of this pointer ?
 - 14. Explain the use of protected access specifier.
 - 15. Give the syntax of cin and cout.
 - 16. Describe the syntax of open () function.
- (5×1=5)**



SECTION – C

Answer **any 5** questions. Weightage **two each**.

17. Explain various forms of if statements with suitable examples.
18. What are default arguments ? Explain with suitable example.
19. Explain various methods for defining member functions.
20. Explain various types of constructors.
21. Describe hierarchical and hybrid inheritance with examples.
22. What is pure virtual function ? Explain the difference between pure virtual functions and virtual function.
23. Describe various stream classes available for file operations.
24. Explain user defined manipulators with an example. (5×2=10)

SECTION – D

Answer **any one** question. Weightage **4**.

25. a) Explain multiple inheritance.
b) Define a class student with name, reg.no, date of birth and name of college as member data and functions to get and display these details. Design another class test with subjects of study and grade for each subject as member data and corresponding input and output functions. Derive a class result from both student and test classes and print the result of each student with relevant information.
 26. Explain :
a) Different techniques to pass arguments to a function.
b) Friend functions. (1×4=4)
-



Reg. No. :

Name :

**II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A. T.T.M./B.B.M./B.C.A./B.S.W.
Degree (CCSS – Reg./Supple./Improv.) Examination, May 2014
COMMON COURSE IN ENGLISH
2A04 ENG : Reading Literatures in English**

Time: 3 Hours

Max. Weightage: 30

I. Write an essay of about **200** words in answer to **any one** of the following :

- 1) How does the system of education followed at Miss Beam's school for sympathy train children to love and help each other ?
- 2) Nehru's school and college studies in England in the days of anti-British movements in India. **(Weightage : 4)**

II. Write an essay of about **200** words on **any one** of the following :

- 3) All earthly glory is transient. How far is this true in relation to the poem *Ozymandias* ?
- 4) Justify the title of the poem *Once Upon a Time*. **(Weightage : 4)**

III. Write an essay of about **200** words on **any one** of the following :

- 5) Analyse the thought process of Fedor Sigaev which leads him to the final decision against revenge.
- 6) Describe the incidents that lead to the meeting between John and Lincoln. **(Weightage : 4)**

IV. Annotate **any four** of the following in about **80** words :

- 7) Today/I am a Man/Isn't that good enough ?
- 8) I stood watching the bones laugh/I could neither weep nor laugh.
- 9) God is in heaven and all/Is right with this stinking world.
- 10) I do not want my sons to undergo the trauma that I did.
- 11) My general attitude to life at the time was a vague kind of cyrenaicism, partly natural to youth, partly the influence of Oscar Wilde and Walter Pater.

(Weightage : 4×2=8)



V. Answer the **four** bunches of **four** questions **each** given below :

12) A) The book that influenced Nehru at Cambridge, *Asia and Europe*, was written by

- a) George Bernard Shaw b) Meredith Townsend
c) Lowes Dickinson d) Gandhiji

B) The worst day in the School for Sympathy was

- a) Blind b) Dumb c) Lame d) Fasting

C) According to the speaker in *Why I Want a Wife* a wife should

- a) Buy grocery b) Plan the menu
c) Cook d) Perform all these

D) To Kishori Amonkar music is

- a) Sadhana b) Pastime
c) Entertainment d) Business

13) A) In the poem London, on every face he meets he observes

- a) Confidence b) Hope
c) Strength d) Weakness

B) The English translation of the title *La Belle Dame Sans Merci* would be

- a) The beautiful, kind girl b) The ugly, hateful girl
c) The beautiful, unkind girl d) None of these

C) The theme of the poem *Ozymandias* is

- a) The importance of fame
b) The greatness of power
c) The transient nature of earthly glory
d) The glory of earthly achievements

D) The poet who wrote *The Pasture* is

- a) Keats b) Robert Frost c) Shelley d) Yeats

14) A) Fedor Sigaev went to a shop that sells

- a) Cosmetics b) Clothes c) Fire-arms d) Poison



- B) Sigaev thought of killing his wife's lover and committing suicide in order to
 - a) Let his wife live happily thereafter
 - b) Earn the sympathy of the society for her
 - c) Let her feel guilty and face the world's ridicule
 - d) None of these
- C) In the fire-arm dealer's opinion the jury in Russia are
 - a) Partial to the seducer
 - b) Sympathetic to the cheated husband
 - c) In favour of the woman, in spite of her guilt
 - d) None of these is true
- D) Revenge is sweet only when
 - a) One can see
 - b) One does not live to see it
 - c) One is not interested in seeing it
- 15) A) Antony says that Caesar used the ransom
 - a) For his personal needs
 - b) To fill the public treasury
 - c) To make himself rich
 - d) None of these
- B) Brutus tells the Romans that Antony
 - a) Had a role in killing Caesar
 - b) Was the main conspirator
 - c) Antony had no role in the killing
 - d) Antony was ambitious
- C) The news of John's meeting with the President reaches Mrs. Goucher through
 - a) Mrs. Allen b) Mark c) Tom d) Spike
- D) Mark and Tom hear the President's speech
 - a) Fully
 - b) not at all
 - c) Just the phrase 'I see clouds of ...'
 - d) Some sentences

(Weightage : 4×1=4)



VI. Answer **any six** of the following questions **each** in a sentence or **two** :

- 16) Why didn't Mark and Tom take John with them to see Lincoln ?
- 17) What idea do you form about the character of Brutus judging him by the speech ?
- 18) What does the avenger finally buy from the shop ?
- 19) What are the different faces that the poet wears as explained in the poem *Once Upon a Time* ?
- 20) Who is Ozymandias ?
- 21) What does Kalamandalam Gopi do immediately after performances ?
- 22) Name the different special days in *The School for Sympathy*.

(Weightage : 6x1=6)



M 6474

Reg. No. :

Name :

**II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W.
Degree (CCSS – Reg./Supple./Improv.) Examination, May 2014
COMMON COURSE IN ENGLISH
2 A03 ENG : Readings on Indian Constitution, Secularism and
Environment**

Time : 3 Hours

Max. Weightage : 30

I. Write an essay of about **200** words on **any one** of the following :

- 1) Kamala's schooldays under the British rule.
- 2) Kumud Pawde's struggles for a job. **(Weightage 4)**

II. Write an essay of about **200** words on **any one** of the following :

- 3) The Green School contest took the message of eco-friendly life to schools.
- 4) The golden age of secularism was in Kerala in the days of the Hindu Princess and her Islamic Dynasty. **(Weightage 4)**

III. Write on **any one** of the following in about **200** words :

- 5) Write a letter to the Pollution Control Board about the effluents from a factory.
- 6) Write a report about the activities undertaken by your NSS UNIT in the ten-day camp. **(Weightage 4)**

IV. Write a paragraph **each** of about **80** words on **any four** of the following :

- 7) The landlady in 'A Telephone Conversation'.
- 8) Uma and her exercise book.
- 9) The attachment of the poet's mother to the Champak tree.
- 10) Center-state relations as seen by NA Palkhivala.
- 11) Medha Patkar's views on the big dams. **(Weightage 4x2=8)**

P.T.O.



V. Answer **all** the **four** bunches of **four** questions **each** :

12) A) The first ever Green School contest was won by

- a) a public school
- b) an English medium school
- c) a government school
- d) none of these

B) NBA stands for

- a) National Business Academy
- b) Narmada Bachao Aandolan
- c) Nava Bharath Aandolan
- d) None of these

C) The ruler rewarded the Muslim youth with

- a) jewels
- b) kingdom
- c) new clothes and a higher rank in the army
- d) none of these

D) Nani Palkhivala speaks about

- a) Environment
- b) Women empowerment
- c) Centre-State relations
- d) None of these

13) A) Jashi was Uma's

- a) sister
- b) servant maid
- c) sister-in-law
- d) none of these

B) Kumud Pawde met

- a) Nehru
- b) Chavan
- c) Jagjivan Ram
- d) Dr. Kolte

C) 'The poem read out by Shirley' was written by

- a) Kamala Das
- b) The principal
- c) Shirley
- d) Mrs. Ross

D) The Constitution of India came into effect on

- a) August 15, 1947
- b) January 26, 1950
- c) November 26, 1949



- 14) A) Wole Soyinka was
- a) an American
 - b) a British
 - c) a Nigerian
 - d) none of these
- B) 'Rule Britannia' was a
- a) novel about Britain
 - b) a poem written by Kamala Das
 - c) an unofficial British Patriotic song
 - d) the ruler of Britain
- C) The poem 'A Monologue' was written by
- a) Ramanujan
 - b) Raju Solanki
 - c) Basavanna
 - d) Sitakant Mhapatra
- D) Dams were called the 'temples of India' by
- a) Medha Patkar
 - b) Sunderlal Bahuguna
 - c) Nehru
 - d) Arundhati Roy
- 15) A) The exercise book of Uma was brought to her husband's house by
- a) Her brother
 - b) Jashi
 - c) Uma herself
 - d) None of these
- B) The man in 'A Telephone Conversation Spoke'
- a) on a land phone
 - b) on a mobile
 - c) from a public telephone booth
 - d) none of these
- C) When visitors came to Kamala's school the brown children were
- a) displayed before them
 - b) discreetly hidden away
 - c) called to read poems
 - d) none of these
- D) About _____ schools participated in the first Green School contest.
- a) 1400
 - b) 1200
 - c) 300
 - d) 1000

(Weightage 4x1=4)



VI. Answer **any six** of the following questions **each** in a sentence or **two** :

- 16) What is the theme of "A Telephone Conversation" ?
- 17) Mention any three of the Fundamental Rights.
- 18) Why did the cook consider Kamala and her brother 'savages' ?
- 19) How did Kumud Pawde get a higher caste status ?
- 20) What is the similarity between the human body and the temple ?
- 21) Who was the leader of the Chipco Movement ?
- 22) What was Nehru's description of the dams ?

(Weightage 6×1=6)



Reg. No.:

Name :

**II Semester B.Sc.LRP/B.C.A./B.S.W. Degree (CCSS – Reg./Supple./Improve.)
Examination, May 2014**

COMMON COURSE IN MALAYALAM

**2 A 08 2 MAL : സാഹിത്യരൂപങ്ങൾ
(2012 Admn. Onwards)**

Time : 3 Hours

Max. Weightage : 30

I. താഴെ കൊടുത്തിരിക്കുന്ന അഞ്ചു വിഭാഗം ചോദ്യങ്ങളിൽ നാലു വിഭാഗത്തിന് ഉത്തരമെഴുതുക (ഓരോ വിഭാഗത്തിന്റേയും മൂല്യം 1). **(4x1=4 വെയിറ്റ്ജ്)**

1) 'കാനാറപ്പാടത്തിനക്കരെത്താമസിക്കുന്ന എലിയെത്തിന്നുന്ന നായ്ക്കന്മാർ അക്കാരണം കൊണ്ടവനെ ഇറക്കിവിട്ടു.'

- എ) ആരെയാണ് ഇറക്കി വിട്ടത് ?
- ബി) ഏതു കാരണം കൊണ്ട് ?
- സി) അവനെ ഓടിച്ചു പാടം കടത്തിയതാര് ?
- ഡി) ഏതു കൃതിയിൽ നിന്ന് എടുത്ത വാക്യം ?

2) "മരിച്ചതെങ്ങനെയെന്നോ ? ഇരുപത്തഞ്ചു വർഷത്തിനുശേഷം സ്വന്തം ഭാഗിനേയൻ ചോദിക്കുന്നു. റഫ്യൂജി ക്യാമ്പിൽ ഭിക്ഷയാചിച്ചു കാശുണ്ടാക്കിയിട്ടാണ് ഞാൻ എല്ലാവർക്കും കമ്പിയടിച്ചത്."

- എ) മരിച്ചതാര് ?
- ബി) ആരുടെ വാക്കുകൾ ?
- സി) ആരോടാണ് പറയുന്നത് ?
- ഡി) ആർക്കാണ് കമ്പിയടിച്ചത് ?

3) "പോവു ആ തൊഴിലില്ലാത്തവരോടു പോയി പറയൂ എനിക്കിന്ന് ആരെയും കാണാൻ സമയമില്ല. എനിക്കിന്നു സുഖമില്ല. ഇതു സന്ദർശന സമയമല്ല."

- എ) ആരുടെ വാക്കുകൾ ?
- ബി) ആരോടു പറയുന്നു ?
- സി) തൊഴിലില്ലാത്തവർ ആര് ?
- ഡി) ഏത് കൃതിയിൽ നിന്ന് ?



4) “ഇവിടെ നിന്നാൽ പ്രിയമല്ലാത്ത ആജ്ഞകൾ ഞാൻ സ്വീകരിക്കേണ്ടി വരും. പഥ്യമല്ലാത്ത യുദ്ധമുറകൾ ഞാൻ ചെയ്യേണ്ടിവരും. ഞാൻ പിരിയുന്നു”

എ) ആരുടെ വാക്കുകൾ ?

ബി) ആരോടാണ് പറയുന്നത് ?

സി) പിരിഞ്ഞ് എവിടേക്കാണ് അദ്ദേഹം പോയത് ?

ഡി) ഏത് കൃതിയിൽ നിന്ന് ?

5) “നിങ്ങളുടെ ഭർത്താവിന്റെ ജീവനുവേണ്ടി എന്റെ മുൻപില് വന്ന് നിന്ന് നിങ്ങൾക്ക് കരയാം. നിങ്ങളുടെ ഭർത്താവെടുത്ത എന്റെ രഘുവേട്ടന്റെ ജീവൻ തിരിച്ച് തരുന്നത് ചോദിച്ചു ഞാൻ കരഞ്ഞാ തരൂവാ നിങ്ങളു് ”

എ) ആരുടെ വാക്കുകൾ ?

ബി) ആരോടാണ് പറയുന്നത് ?

സി) കേൾക്കുന്നയാളിന്റെ ഭർത്താവിന്റെ പേരെന്ത് ?

ഡി) ഏതു കൃതിയിൽ നിന്ന് ?

II. എഴുപത്തഞ്ചു വാക്കിൽ കവിയാതെ ആറു ചോദ്യങ്ങളിൽ നാലെണ്ണത്തിന് ഉത്തരമെഴുതുക (വെയിറ്റേജ് 1). (4x1=4 വെയിറ്റേജ്)

6) “മരിക്കുവാൻ യോഗമുണ്ടെങ്കിൽ രോഗി മരിക്കും. നിനക്കും അയാളെ രക്ഷിക്കുവാൻ കഴിയില്ല. ദൈവത്തിലും വലുതാണോ ഡോക്ടർ” – സന്ദർഭം വിവരിക്കുക.

7) “കൃഷ്ണൻ കുട്ടിക്ക് ഭൂമിയിലേക്ക് താണു പോകണം എന്നു തോന്നാൻ” കാരണമെന്താണ് ?

8) ‘പെരുമഴക്കാല’ത്തിലെ ആമു എളാപ്പ എന്ന കഥാപാത്രത്തെക്കുറിച്ച് കുറിപ്പെഴുതുക.

9) “ജീവിക്കാൻ മാത്രമല്ല മരിക്കാനും ഒരു മൂല്യമുണ്ടാവണം.” – വിഭീഷണന്റെ വാക്കുകൾ വിശദീകരിക്കുക.

10) ‘മുരുകൻ എന്ന പാമ്പാട്ടി’ എന്ന കഥയിലെ ‘മുരുകൻ’ എന്ന കഥാപാത്രത്തിന്റെ പ്രത്യേകതകൾ വിശദീകരിക്കുക.

11) “ഈ തീപ്പെരിപ്പെൺകുട്ടി ഇത്ര സെന്റിമെന്റലോ ? ഈ തീക്കുടുക്കയ്ക്കാവരണം തുഷാരബിന്ദുക്കളോ.....?” – ആരെക്കുറിച്ചാണ് ഇപ്രകാരം പറയുന്നത് ? വിശദീകരിക്കുക.



III. നൂറ്റമ്പതു വാക്കിൽ കവിയാതെ ഏഴു ചോദ്യങ്ങളിൽ നിന്നും അഞ്ചെണ്ണത്തിന് ഉത്തരമെഴുതുക (വെയിറ്റേജ് 2). (5x2= 10 വെയിറ്റേജ്)

- 12) 'ലങ്കാലക്ഷ്മി' എന്ന നാടകത്തിലെ രാവണന് ഇതിഹാസത്തിലെ രാവണനിൽ നിന്നുള്ള വ്യത്യാസമെന്ത് ?
- 13) അമ്മിണിയോപ്പോളുടെ നമ്പൂതിരിയുമായുള്ള സംബന്ധം മൂടങ്ങിയതെങ്ങനെ ?
- 14) 'പെരുമഴക്കാലം' എന്ന കൃതിക്ക് ഒരാസ്വാദനക്കുറിപ്പ് തയ്യാറാക്കുക.
- 15) 'നഷ്ടപ്പെട്ട നീലാംബരി' ഒരു ഭാവഗീതം പോലെ സാന്ദ്രമാണ് എന്ന അഭിപ്രായം പരിശോധിക്കുക.
- 16) 'മൂരുകൻ എന്ന പാമ്പാട്ടി' എന്ന കഥയുടെ ആഖ്യാനകല വിശദീകരിക്കുക.
- 17) "ഞാനും ഒരു മനുഷ്യനാണ് മനുഷ്യപുത്രിയുടെ മകൻ !....." വിശദീകരിക്കുക.
- 18) 'വാസ്തുഹാരാ'യിൽ പ്രകടമാകുന്ന നഷ്ടപ്പെടുന്നവരുടെ ദൈന്യം വിവരിക്കുക.

IV. മൂന്നുറു വാക്കിൽ കവിയാതെ മൂന്നെണ്ണത്തിന് ഉത്തരമെഴുതുക (വെയിറ്റേജ് 4). (3x4= 12 വെയിറ്റേജ്)

- 19) 'പെരുമഴക്കാലം' മനുഷ്യത്വത്തിന്റെ മഹത്വം വിളിച്ചോതുന്ന കൃതിയാണ് - ചർച്ച ചെയ്യുക.
- 20) 'ലങ്കാലക്ഷ്മി'യിലെ രാവണന് സി. എൻ. നൽകുന്ന പ്രാമുഖ്യം വിശകലനം ചെയ്യുക.
- 21) 'ഞാനെന്ന ഭാവത്തി'ന്റെ ആഖ്യാനത്തിൽ മനുഷ്യമനസ്സിന്റെ സങ്കീർണ്ണതകൾ സ്വാധീനം ചെലുത്തുന്നതെങ്ങനെ ?
- 22) എം. പി. നാരായണപിള്ളയുടെ 'മൂരുകൻ എന്ന പാമ്പാട്ടി' ആധുനിക മലയാള ചെറുകഥയുടെ ചരിത്രത്തിൽ വരുത്തിയ മാറ്റം വിശദീകരിക്കുക.
- 23) 'മനുഷ്യപുത്രി' എന്ന കഥ നമ്പൂതിരി സമുദായത്തിനു വന്ന അപചയത്തിന്റെ കഥയാണ് - പരിശോധിക്കുക.
