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BCAENL 153/BBMENL 153/BHMENL 153/BHSENL 153
BFDENL 153/BGDENL 153/BLDENL 153/BIDENL 153
BADENL 153

Credit Based II Semester B.C.A./B.B.M./B.H.M./B.Sc. (HS)/B.Sc. (F.D)/
B.Sc. (G.D.)/B.Sc. (Leather Design)/B.Sc. (I.D. & D)/B.A. (Security and
Detective Science) Examination, April/May 2015
(2014-15 Batch)

ENGLISH

General Proficiency and Communicative English

Time : 3 Hours

Max. Marks :

SECTION - A

(Prose)

I. Answer **any one** of the following in **not** more than **2** pages :

- 1) Explain how the moral "you can fool too many of the people too much of the time" is exemplified in 'The Owl Who was God'.
- 2) Write a note on Hari's transformation from a dishevelled urchin to the member of the Legislative Assembly.
- 3) Who did Stephen Leacock give a dollar to ? Describe the efforts he made to get back the dollar.
- 4) Explain the hazards that Mihir Sen had to face while swimming the Palk Straits.



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II. Answer **any two** of the following in **not** more than a page **each** : (5×2=

- 1) What did Booker T Washington do in order to save money to reach Virginia ?
- 2) How did the natives of Maori use the hot springs ?
- 3) Why did Michael's father send him to sea ? What did Michael achieve as an adult ?
- 4) What was the most heartbreaking moment Mihir Sen experienced during the entire swim ? How did he overcome it ?

III. Do as directed :

1) In each of the following sentences a word is underlined. Choose the synonym of the underlined word from the words given below each sentence : (2)

a) Two ground moles quavered in fear and astonishment.

i) Trembled

ii) Shouted

iii) Screamed

b) The good odours made them hungry.

i) Smell

ii) Food

iii) Environment

2) Fill in the blanks with the antonym of the underlined word :

a) The owl could answer any _____

b) _____ to a life of rules and regulations, Hari found it difficult to accustomed to the life in Swaraj Bhavan.

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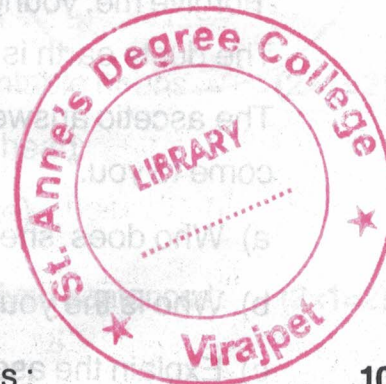
- 3) Fill in the blanks with the appropriate word from those given in brackets : (2×1=2)
- His large eyes gave him an _____ of tremendous importance (air, heir).
 - At night, the city was very _____ (quite, quiet)
- 4) Write **one** word substitutes for the following : (2×1=2)
- A small dark grey animal which lives in self-made tunnels.
 - Arrow or pointer on the top of a building to show the direction of wind.
- 5) Fill in the blanks with the appropriate idiom and phrase from those given in brackets after making the necessary changes : (2×1=2)
- Next month, I plan to _____ Karate. I'd love to learn some self-defence techniques.
 - Your daughter doesn't _____ you at all.
(take after, take the plunge, take up, take a beating)

SECTION – B

(Poetry)

IV. Answer **any one** of the following in **not** more than **2** pages :

- Write a note on the well of St. Keyne. Explain why and how the Cornishwoman outwit her newly wedded husband.
- Explain Upagupta's compassion for the dancing girl as given in Rabindranath Tagore's "Upagupta".
- Explain the irony of scientific progress as explained in "James Honeyman".
- Describe the activities that take place in the house on the night when the scorpion stings the mother.



V. Annotate **any two** of the following :

1) "A well there is in the West country,

And a clearer one never was seen;

There is not a wife in the West country

But has heard of the Well of St. Keyne"

a) State one quality of the well that is mentioned in these lines.

b) Why was the well of St. Keyne called by that name ?

c) Why was it known to every wife in the west country ?

2) She lowered her lamp and saw the young face, austerely beautiful.

"Forgive me, young ascetic", said the woman; "graciously come to my house

The dusty earth is not a fit bed for you".

The ascetic answered, "woman, go on your way; when the time is ripe I will come to you."

a) Who does 'she' refer to ?

b) Who is the young ascetic ? What did she want him to do ?

c) Explain the ascetic's answer.

3) The peasants came like swarms of flies and buzzed the Name of God a hundred times to paralyse the Evil One.

a) Who is the 'Evil One' ?

b) Why did the peasants come ?

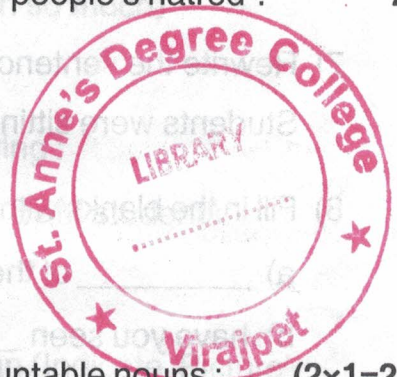
c) Explain the figure of speech in these lines.

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- 4) If you can wait and not be tired by waiting,
Or being lied about, don't deal in lines,
Or being hated, don't give way to hating,
a) Who does 'you' refer to ? 1
b) What should a man do when lies are told about him ? 2
c) What should a man do when he is subject to other people's hatred ? 2

SECTION - C

(Grammar)



VI. Do as directed :

- 1) Fill in the blanks with the appropriate countable/uncountable nouns : (2x1=2)
a) There are just two _____ (hair/hairs) left on his head.
b) I have packed all my _____ (furnitures/furniture)
- 2) Name the parts of speech of the underlined words in the given sentences : (2x1=2)
a) Give me some rice.
b) They clean the room daily.
- 3) Fill in the blanks with the appropriate preposition/preposition phrase : (2x1=2)
a) We have exams _____ 9 to 12 noon. (from/between)
b) There is a river _____ (infront of/in the course of) my college.
- 4) Punctuate the following sentence using capital letters wherever necessary : (5x1=5)
i am your friend arent i

5) Combine the sentences using the correlative conjunctions given in brackets :

(2x1=2)

a) She doesn't eat. She doesn't drink. (neither . . . nor)

b) He is tall. He is handsome (both . . . and)

6) Rewrite the sentence using the introductory "It" :

1

To practise what one preaches is not easy.

7) Rewrite the sentence with the introductory 'There' :

1

Students were sitting in the exam hall.

8) Fill in the blanks with the appropriate word from those given in brackets : (2x1=2)

a) _____ of the students were listening. (No, None)

b) have you seen _____ movies ? (much, many)

9) Fill in the blanks with the conversational equivalent of the time given in brackets :

1

a) I will reach Dubai by _____ (4.15)

OR

Fill in the blanks with please, thank you or sorry :

a) I don't know the answer, will you help me _____ ?

10) Rewrite the following sentences after deleting the redundant words in them :

(2x1=2)

a) Please return back my money.

b) Don't repeat this action again.

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SECTION – D

Writing Skills

VII. Write a paragraph of **100** words on the following guidelines. Underline the topic sentence :

5

- a) The person who you respect a lot. (Write-who this person is, how did you come to know him/her and why you respect this person so much)

OR

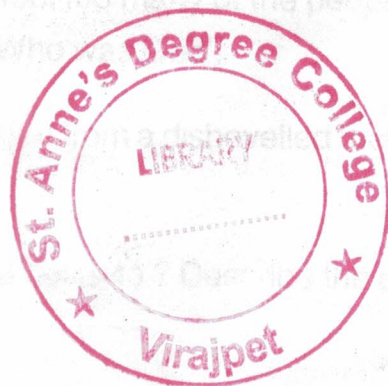
Write a dialogue of **10** sentences on **any one** of the following :

- a) Two lecturers from different colleges discussing their I BBM students.
b) Two birds talking about the weather.

III. Draft an advertisement within a frame with USP and slogan (Indicate 'Picture' and 'Logo'] on the following :

5

A new company is launching a bicycle.



9 P00033

579 MAN

Reg. No.

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ಗುಣಾಂಕ ಆಧಾರಿತ ದ್ವಿತೀಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಸಿ.ಎ./ಬಿ.ಎಸ್ಸಿ. (ಅನಿಮೇಷನ್ ಮತ್ತು ವಿಶುವಲ್ ಇಫೆಕ್ಟ್ಸ್)/ಬಿ.ಎಸ್ಸಿ. (ಫ್ಯಾಷನ್ ಡಿಸೈನ್)/ಬಿ.ಎಸ್ಸಿ. (ಗಾರ್ಮೆಂಟ್ಸ್ ಡಿಸೈನ್)/ಬಿ.ಎಸ್ಸಿ. (ಇಂಟೀರಿಯರ್ ಡಿಸೈನ್ ಮತ್ತು ಡೆಕೋರೇಟಿಂಗ್) ಪದವಿ ಪರೀಕ್ಷೆ, ಎಪ್ರಿಲ್/ಮೇ 2015

(ಹೊಸ ಪಠ್ಯಕ್ರಮ)

ಕನ್ನಡ/ಅಡ್ವಾನ್ಸ್‌ಡ್ ಕನ್ನಡ - II

(2013-2014 Batch and Onwards)

ಸಮಯ : 3 ಗಂಟೆಗಳು

ಗರಿಷ್ಠಾಂಕಗಳು : 80

ಭಾಗ - 1 (ಕಾವ್ಯ)

1. ಅ) ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ: (1×8=8)

1) ಕೈಕೆಯ ವ್ಯಕ್ತಿತ್ವವನ್ನು 'ಅನೃತದಿಂದ ಮಗಳಮುಂಟೆ' ಕಾವ್ಯ ಭಾಗದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿರಿ.

2) ದಾಸಿಮಯ್ಯನ ವಚನಗಳು ಮನುಷ್ಯನ ಬದುಕಿಗೆ ನೀಡುವ ಸಂದೇಶವೇನು? ವಿಶ್ಲೇಷಿಸಿರಿ.

ಆ) ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ: (1×5=5)

1) ಕೃಷ್ಣ ಈರುಳ್ಳಿಯನ್ನು ಸೃಷ್ಟಿ ಮಾಡಿದ ಸನ್ನಿವೇಶದ ಸ್ವಾರಸ್ಯವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.

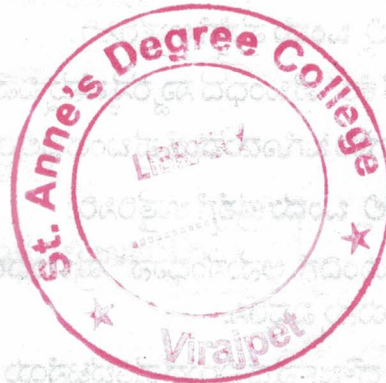
2) ಮನುಷ್ಯನ ಬಾಳನ್ನು ತಿದ್ದುವ ಪ್ರಯತ್ನವನ್ನು ಡಿ.ವಿ.ಜಿ.ಯವರು ತಮ್ಮ ಮುಕ್ತಕಗಳ ಮೂಲಕ ಮಾಡಿರುವ ಪರಿಯನ್ನು ವಿವರಿಸಿರಿ.

ಇ) ಎರಡಕ್ಕೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ: (2×3=6)

1) ನಾಗಚಂದ್ರ

2) ತವರಿನ ಹಂಬಲ

3) ದ್ರೌಪದಿ.



P.T.O.

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II. ಅ) ಒಂದು ಪದ್ಯ ಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿರಿ:

(1×5=5)

- 1) ಸೆಡೆದನೆ ತನ್ನ ಬಂಧುಗಳಿಗೆ ಪುತ್ರ ಕಳತ್ರ ಮೋಹ ದೊ
ಳ್ತೊಡರ್ದನೆ ಪಟ್ಟಬಂಧಮನೊಡರ್ಬಿದನೇ ಭರತಂಗೆ ರಾಘವಂ
ನಡೆಯೇ ಬನಕ್ಕದಂ ಮಱಿದುಮೇಂ ಪೆಸಗೊಂಡನೆ ದೀಕ್ಷೆಗೊಂಡನಾ
ಗಡೆ ವಿಭು ಸರ್ಪಭೂತ ಹಿತ ದಿವ್ಯ ಮುನೀಶ್ವರ ಪಾದಪದ್ಮದೊಳ್.
- 2) ಮರದೊಳಗೆ ಮಂದಾಗ್ನಿಯಂ ಉರಿಯದಂತಿರಿಸಿದೆ
ನೊರೆವಾಲೊಳಗೆ ತುಪ್ಪವ ಕಂಪಿಲ್ಲದಂತಿರಿಸಿದೆ
ಶರೀರದೊಳಗಾತ್ಮನನಾರೂ ಕಾಣದಂತಿರಿಸಿದೆ
ನೀನು ಬೆರಸಿದ ಭೇದಕ್ಕೆ ಬೆರಗಾದೆನಯ್ಯಾ ರಾಮನಾಥ.

ಆ) ಎರಡು ಸಾಲುಗಳಿಗೆ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸ್ವಾರಸ್ಯವನ್ನು ವಿಶದಪಡಿಸಿರಿ:

(2×3=6)

- 1) ನನ್ನ ಕಷ್ಟಕ್ಕೆ ಕೊನೆಯಿಲ್ಲ.
- 2) ತಾಯಿಯಿದ್ದರೆ ಸಂಪತ್ತು ಹೆಣ್ಣಿಗೆ.
- 3) ಬಳಸುವನೆಲ್ಲ, ಉಳಿಸುವುದಿಲ್ಲ ತನ್ನ ಹಿತಕಾಗಿ ಹೋರಾಡುವ.

III. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಪ್ರತಿಯೊಂದಕ್ಕೂ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ:

(5×1=5)

- 1) 'ಅಭಿನವ ಪಂಪ' ಎಂಬ ಹೆಸರು ಯಾರಿಗಿದೆ ?
- 2) ದಾಸಿಮಯ್ಯನ ಮಡದಿಯ ಹೆಸರೇನು ?
- 3) ಡಿ.ವಿ.ಜಿ.ಯವರು ರಚಿಸಿದ ಕೃತಿಗಳು ಯಾವುವು ?
- 4) 'ಜನವಾಣಿ ಬೇರು, ಕವಿವಾಣಿ ಹೂವು' ಎಂದವರು ಯಾರು ?
- 5) 'ಮೌನ ಕರಗುವ ಹೊತ್ತು' ಈ ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು ?

ಭಾಗ - 2 (ಗದ್ಯ)

IV. ಅ) ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ:

(1×8=8)

- 1) 'ನಮ್ಮೂರ ಕೆರೆ' ಪ್ರಬಂಧದ ಸ್ವಾರಸ್ಯವನ್ನು ವಿವರಿಸಿ.
- 2) ಗಿಡಗಂಟಿಗಳು ಓಗೊಡುವಂತೆ ಪ್ರಬಂಧದಲ್ಲಿರುವ ಪುರಾಣದ ವಿಚಾರಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ.

ಆ) ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ:

(1×8=8)

- 1) 'ಪ್ರಕೃತಿಯೊಂದಿಗೆ ಅನುಸಂಧಾನ' ಪ್ರಬಂಧದಲ್ಲಿ ಅಡಕವಾಗಿರುವ ನಾ.ಡಿಸೋಜ ಅವರ ಪರಿಸರ ಪ್ರಿಯತೆಯನ್ನು ವಿವರಿಸಿ.
- 2) ಪುರುಷರ ದೌರ್ಜನ್ಯದ ವಿರುದ್ಧ ಪ್ರತಿಭಟನೆಯ ಧ್ವನಿ 'ಜೀವಪರದೊಂದಿ' ಪ್ರಬಂಧದಲ್ಲಿ ಪ್ರಕಟವಾಗಿರುವ ರೀತಿಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.

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V. ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ:

(1×5=5)

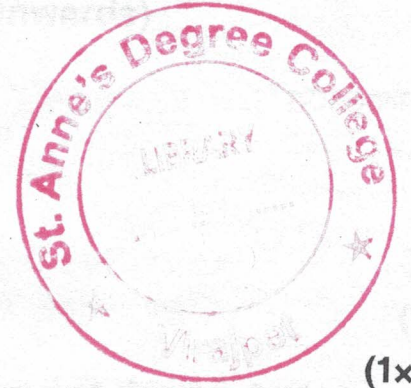
- 1) ಮನುಷ್ಯನು ಪ್ರಯತ್ನದಿಂದಾಗಿ ಯಶಸ್ಸನ್ನು ಗಳಿಸಿಕೊಳ್ಳುತ್ತಾನೆಂಬ ವಿಚಾರವನ್ನು 'ಗಣೇಶ ಅಮೀನಗಡ' ಹೇಗೆ ವಿಶ್ಲೇಷಿಸಿದ್ದಾರೆ ?
- 2) ಕುಮಾರವ್ಯಾಸನ ಷಟ್ಪದಿಗಳ ಸ್ವಾರಸ್ಯವನ್ನು 'ಜೋಗಿ' ಯವರು ಅಭಿವ್ಯಕ್ತಗೊಳಿಸಿರುವ ಪರಿಯನ್ನು ವಿವೇಚಿಸಿ ಬರೆಯಿರಿ.

VI. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ:

(4×1=4)

- 1) ಶಿವರಾಮ ಕಾರಂತರ ಜನ್ಮಸ್ಥಳ ಯಾವುದು ?
- 2) 'ಮುಳುಗಡೆ' ಇದು ಯಾರು ಬರೆದ ಕಾದಂಬರಿ ?
- 3) 'ಭಗವಾನ್ ಬುದ್ಧ'ನ ಮೂಲ ಹೆಸರೇನು ?
- 4) 'ಕರ್ಣಾಟ ಭಾರತ ಕಥಾಮಂಜರಿ'ಯನ್ನು ಬರೆದವರು ಯಾರು ?

ಭಾಗ - 3 (ನಾಟಕ)



VII. ಅ) ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ:

(1×8=8)

- 1) ಹರಿಶ್ಚಂದ್ರನಿಗೆ ಒದಗಿದ ಶಾಪ ಮತ್ತು ಅದಕ್ಕೆ ಕಾರಣವಾದ ಸನ್ನಿವೇಶವನ್ನು ವಿವರಿಸಿರಿ.
- 2) ಅಜೀಗರ್ತ ಮತ್ತು ವಸುಂಧರೆಯರ ಪಾತ್ರವನ್ನು ನಾಟಕದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿರಿ.

ಆ) ಈ ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿರಿ:

(1×6=6)

- 1) ಶುನಶ್ಯೇಪನು ಬಲಿಪಶುವಾಗಲು ಒಪ್ಪಿದ ಸಂದರ್ಭವನ್ನು ಅದಕ್ಕೆ ಕಾರಣವಾದ ಪ್ರಸಂಗವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
- 2) ಆಂದ್ರಕ, ಮದುಚ್ಛಂದರ ಪಾತ್ರಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿರಿ.

VIII. ಎರಡು ವಾಕ್ಯಗಳಿಗೆ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸ್ವಾರಸ್ಯವನ್ನು ವಿಶದಪಡಿಸಿರಿ.

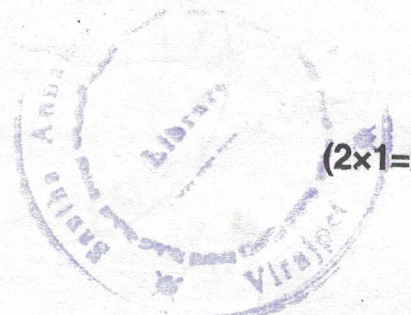
(2×2=4)

- 1) ನಿನ್ನ ಪರಿಚಯದಿಂದ ನಮಗೇನಾಗಬೇಕಾಗಿದೆ ?
- 2) ಸಾಯುವುದಾದರೂ ಜೊತೆಗೆ ಸಾಯೋಣ.
- 3) ಸಾಹಸದ ಪ್ರತಿಮೂರ್ತಿಯಾಗಿ ವಿಶ್ವ ದಾಖಲೆಯಾಗಿದೆ.

IX. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಪ್ರತಿಯೊಂದಕ್ಕೂ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿರಿ:

(2×1=2)

- 1) 'ಧರ್ಮಾರಣ್ಯ' ಎಂದರೆ ಏನು ?
- 2) ಯೂಪಸ್ತಂಭ ಈ ಪದದ ಅರ್ಥವೇನು ?





BCAHDL 153/BSAHDL 153/BFDHDL 153/BIDHDL 153

**Credit Based II Semester B.C.A./B.Sc. (Animation and Visual Effects)
B.Sc. (FD)/B.Sc. (ID and D) Examination, April/May 2015
(2012-13 Batch Onwards)
HINDI LANGUAGE
(Group – I) (Paper – II)**

Time : 3 Hours

Max. Marks :

I. एक शब्द या एक वाक्य में उत्तर लिखिए :

(1×10=10)

- 1) चूडामाणि कौन था ?
- 2) सीता का हरण किसने किया ?
- 3) राजनाथ की बेटी का नाम क्या है ?
- 4) मनीषी के पति का नाम क्या है ?
- 5) घोंसले एकांकी के एकांकीकार कौन है ?
- 6) छोटी बहू का नाम क्या है ?
- 7) मोहन के दोस्त कौन है ?
- 8) मंडोदरी से सीता क्या चाहती है ?
- 9) दो कलाकार से कितने महीने का किराया बाकी था ?
- 10) मनीषी किस रोग से पीड़ित है ?

II. किन्हीं दो अवतरणों की सप्रसंग व्याख्या कीजिए :

(2×5=10)

- 1) और अपनी चीज अगर आप तोड़े तो भला हम रोकनेवाले कौन होते ?
- 2) हाँ-हाँ प्रभु राम आपका उद्धार अवश्य करेंगे।
- 3) व्यक्ति धन और अधिकार से नहीं अपने गुणों से आगे बढ़ेगा।
- 4) क्यों उसके हाथ नमक-मिट्टी के हैं जो गल जायेंगे।



III. किसी एक प्रश्न का उत्तर लिखिए :

(1×10=10)

- 1) 'राजरानी सीता' एकांकी का सार लिखिए।
- 2) सूखी डाली एकांकी का सार लिखकर विशेषताओं पर प्रकाश डालिए।

IV. किन्हीं दो पर टिप्पणी लिखिए :

(2×5=10)

- 1) जगमोहन
- 2) हनुमान
- 3) मोहन
- 4) परेश

V. किसी एक प्रश्न का उत्तर लिखिए :

(1×10=10)

- 1) 'निन्दा रस' निबन्ध का सारांश लिखिए।
- 2) 'लज्जा और गलानि' निबन्ध का सार लिखिए।

VI. किन्हीं दो पर टिप्पणी लिखिए :

(2×5=10)

- 1) रुमाल की खोज
- 2) सभ्यता
- 3) लज्जा के कारण
- 4) दैव दैव आलसी पुकारा

VII. अ) किसी एक प्रश्न का उत्तर लिखिए :

(1×5=5)

- 1) क्रिया विशेषण की परिभाषा लिखकर उसके भेदों को उदाहरण के साथ स्पष्ट कीजिए।
- 2) प्रत्यय की परिभाषा लिखकर उसके भेदों को उदाहरण के साथ समझाइए।

आ) वाच्य बदलिए :

(4×1=4)

- 1) अंशिका ने कपडे धोये।
- 2) तुमसे फूल तोडे जाएँगे।
- 3) बच्चे खेलेंगे।
- 4) अंशुमान पत्र लिखता है।

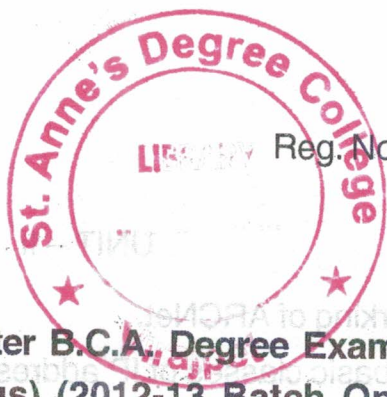
इ) वाक्य शुद्ध कीजिए :

(6×1=6)

- 1) अभी ही वह गया था।
- 2) वह मत सुनता है।
- 3) राधा अच्छी गाती है।
- 4) वह मत सुनता है।
- 5) मैं न गया था।
- 6) सदा काल से यह परम्परा चली आ रही है।

ई) भारत सरकार के गृह मंत्रालय में लिपिक के पद के लिए नियुक्ति की सूचना देते हुए उसके कार्यालयों में सूची भेजी जा रही है इस विषय को प्रस्तुत करते हुए परिपत्र लिखिए।

(1×5=5)



Reg. No.

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BCACAC 15

Credit Based Second Semester B.C.A. Degree Examination, April/May 2015
(New Syllabus) (2012-13 Batch Onwards)
BASICS OF NETWORKING

Time : 3 Hours

Max. Marks : 80

Note : Answer any ten questions from Part – A and any one full question from each Unit of Part – B

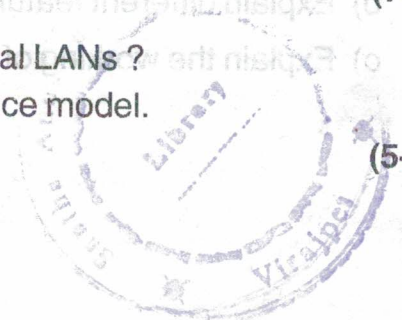
PART – A

1. a) Define Bandwidth and Throughput. (10×2=20)
- b) What is cut-through-switching and store-and-forward switching ?
- c) Differentiate attenuation and distortion.
- d) What are the different aspects of communication a network protocol defines ?
- e) List the protocols operate at the middle layer of TCP/IP.
- f) List any two limitation of IP address classes.
- g) List any two features of Switched56.
- h) What are the different categories of VSAT devices ?
- i) What is a Virtual Circuit ? List different types of virtual circuit used in frame relay WAN.
- j) Differentiate peer-to-peer and client/server networks.
- k) What is a user account ? List different types of user accounts in Windows 2000.
- l) What is Active Directory Services ?

PART – B

UNIT – I

2. a) Briefly explain different layers of OSI reference model.
- b) Describe the features and working of Ring Topology.
- c) List and explain different components of optical fiber. (7+5+3)
3. a) What are the benefits of WLAN over conventional LANs ?
- b) Briefly explain different layers of TCP/IP reference model.
- c) Write a note on coaxial cables. (5+5+5)



P.T.O.



UNIT – II

4. a) Describe the working of ARCNet.
b) Write a note on basic classes of IP address.
c) List the advantages of IPv6 over IPv4. (5+6+)
5. a) Describe the working of FDDI with the help of a diagram.
b) Explain different components of IPX address. Also mention the reserved address.
c) Explain :
 - a) Hyper Text Transfer Protocol
 - b) File Transfer Protocol. (5+5+)

UNIT – III

6. a) Explain the features of POTS with a diagram.
b) Write a note on Virtual Private Networks.
c) Explain the working of Transparent Bridge with the help of a diagram. (5+5+)
7. a) Discuss differences between LAN and WAN technologies.
b) Explain the working of ISDN with a neat diagram.
c) Define routing table. Explain its contents. (5+5+)

UNIT – IV

8. a) List and explain the features of Windows 2000 server.
b) Explain the working of WINS with a suitable diagram.
c) Explain different phases of leasing an IP address in DHCP with the help of a diagram. (5+5+5)
9. a) Explain the steps involved in creation of Local User Account.
b) Explain different features of Novell Netware.
c) Explain the working of DNS with the help of suitable diagram. (6+4+5)

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BCACAC 157

**Credit Based Second Semester B.C.A. Degree
Examination, April/May 2015
(New Syllabus) (2012-13 Batch Onwards)
OBJECT ORIENTED PROGRAMMING USING C++**

Time : 3 Hours

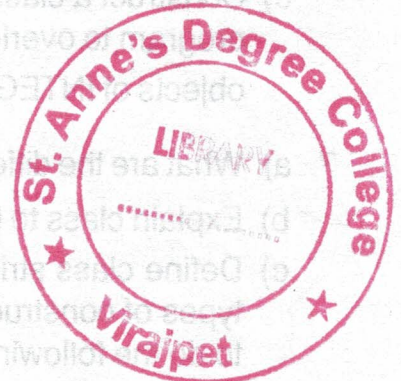
Max. Marks : 80

Note : Answer any ten questions from Part A and one full question from each unit in Part B :

PART – A

(10x2=20)

1. a) What is dynamic binding ?
- b) What are manipulators ? Give an example. ✓
- c) Give the syntax of switch statement.
- d) Give two situations in which an inline function may not work.
- e) Differentiate class and structure in C++.
- f) Give any two properties of a friend function.
- g) List any four operators that cannot be overloaded.
- h) What is a constant object ? How is it declared ?
- i) What is destructor ? How do you define it in C++ ?
- j) When do we use protected access specifier in C++ ?
- k) Give the general form of derived class declaration.
- l) What is a virtual function ?



PART – B

UNIT – I

2. a) What are the advantages of OOPs ? ✓
- b) Explain three methods of defining symbolic constants in C++.
- c) Explain the use of break and continue statements in C++. **(5+6+4)**
3. a) Explain the classification of data types in C++.
- b) Explain precedence and associativity of the operators with reference to the following expression $a + b * c/d - (e + f)/d$.
- c) Explain the for loop structure with a suitable example. **(5+5+5)**

P.T.O.



UNIT – II

4. a) Explain the different ways of defining member functions of a class with an example. (5+5+5)
- b) What is friend function ? What are the merits and demerits of using friend function ?
- c) Write a note on function prototyping. (5+5+5)
5. a) Explain how to pass arrays to functions with a suitable example. (5+4+6)
- b) Write a note on objects as functional arguments.
- c) With proper example, explain how to pass and return an object to/from a function.

UNIT – III

6. a) How do you overload a binary operator using member function ? Explain with example. (5+4+6)
- b) Write a note on copy constructor.
- c) Construct a class INTEGER containing an integer data member and write a program to overload four arithmetic operators so that they operate on the objects of INTEGER.
7. a) What are the different ways of calling a constructor ? Explain with an example. (4+5+6)
- b) Explain class to basic type conversion with an example.
- c) Define class string having data member for holding string data. Include all types of constructors to initialize objects. Write a program to test your class to do the following :
- i) To copy one object to another
- ii) To join two strings using overloaded + operator.

UNIT – IV

8. a) What is this pointer ? Explain its importance in C++ with an example. (5+5+5)
- b) Explain how pointers to object are used in a C++ program.
- c) Explain private mode of inheritance with example.
9. a) Explain multiple inheritance with an example. (5+4+6)
- b) Write a note on compile time and run time polymorphism.
- c) What are the basic rules for a the function to be virtual ?

Reg. No.

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BCACAC 153

**Credit Based Second Semester B.C.A. Degree Examination,
April/May 2015
(Old Syllabus 2011-2012 and Earlier Batches)
COMPUTER ORGANIZATION AND ARCHITECTURE**

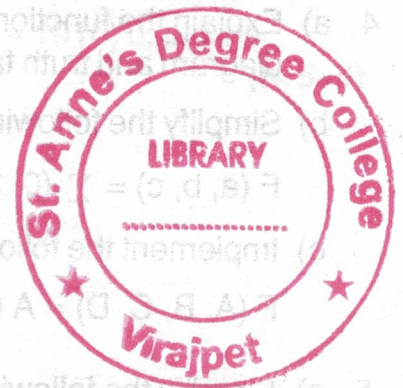
Time : 3 Hours

Max. Marks : 80

PART – A

1. Answer **any ten** questions. **Each** question carries **two** marks.

- Define flip-flops.
- What is a shift register ?
- Write the logic diagram and truth table for a 2 input XOR gate.
- What is an IC ? How do you classify IC's ?
- Write BCD and Octal equivalent of 75.
- Draw the circuit diagram of OR gate using NOR gates.
- What is magnitude comparator ?
- Prove : $(A + B)' = A' . B'$
 - $(120.25)_{10} = (?)_{16}$.
 - Write the basic diagram of clocked RS flip-flop with basic NOR.
 - Draw the circuit of full adder using 2 half adders.
 - How to obtain 1's and 2's complements ?



P.T.O.



PART – B

Note : Answer **one full** question from **each Unit**.

UNIT – I

2. a) With a block diagram explain the different functional units of a digital computer.
 b) Write a note on floating point multiplication.
 c) Convert the decimal number 352.22 to octal and binary. **(6+3+6)**

3. a) Explain the application of computer in business and science.
 b) $(11010.11)_2 = (?)_{16} (?)_8$.
 c) What are error detection codes ? Explain.
 d) Explain the following assembly level instruction.
 i) ADD
 ii) SUB
 iii) CLA. **(3+3+3+6)**

UNIT – II

4. a) Explain the functionality of NAND, NOR and NOT gates along with their logic diagram and truth table.
 b) Simplify the following expression using K-map and draw the logic diagram.
 $F(a, b, c) = \sum (0, 3, 4, 6)$ with don't care $d(a, b, c) = \sum (1, 2)$
 c) Implement the following function using NAND.

$$F(A, B, C, D) = A(B + CD) + BD$$

(5+5+5)

5. a) Simplify the following expression using K-map and draw the logic diagram.

$$F(w, x, y, z) = \sum (0, 1, 2, 4, 5, 6, 8, 9, 12, 13, 14)$$

- b) What is a gate ? Explain the working principle of AND and OR gates with their logic diagram.
 c) Mention the basic laws of Boolean algebra. **(5+5+5)**



UNIT – III

6. a) Explain the working of J K flip-flop with its logic diagram.
b) With a neat diagram explain the concept of serial transfer.
c) Design a mod 5 counter using T flip-flops. **(5+5+5)**
7. a) Explain the working of magnitude comparator.
b) Explain the working of T flip-flop with logic diagram.
c) Design BCD synchronous counter by using T flip-flops. **(5+5+5)**

UNIT – IV

8. a) With the help of a suitable diagram explain the working of half subtractor.
b) Explain the working of BCD adder with a neat diagram.
c) Perform the following binary arithmetic using 1's and 2's complement.
i) 1010-1100 **(5+6+4)**
9. a) What is binary adder ? Explain the working of 4 bit binary adder with a logic diagram.
b) Explain Shift operation with a neat diagram.
c) Perform (239 – 192) using 10's complement and (11001 – 1010) using 1's complement methods. **(6+5+4)**

