B.A./B.Com./B.Sc./B.B.M./B.B.A./B.H.M. DEGREE EXAMINATION, DEC. - 2015

(Examination at the end of First Year)

Part I - ENGLISH

Paper - I : General English

<u>**Time : 03 Hours**</u>   **Maximum Marks : 70**

<u>**Section - A**</u>   *(5 × 1 = 5)*

1)   a)   Read the following passage and answer the questions that follow :

Rules or laws are, therefore, drawn up to ensure that members of the society may live and work together in an orderly and peaceable manner. The large the community, the more complex and numerous will be the rules. If the rules or laws are broken, compulsion is used to enforce obedience. Two ideas are concept of law: (1) order, in the sense of method or system, and (2) compulsion, i.e., the enforcement or obedience to the rulers or laws bid down.

   i)   List out the two ideas that underlie the concept of law.

   ii)   What is the passage about?

   iii)   Suggest a suitable title for the passage.

   iv)   What did man do in primitive times?

   v)   Why rules or laws, are drawn up?

   b)   Read the following passage carefully and answer the questions that follow by choosing the right answer.   *(1 × 4 = 4)*

I have last my job. It was a good job, too. All I had to do was sit in the shop throughout the day and sell saris and cholipieces: that was all we sold. They were very good saris and cholipieces, specially woven in Mr. Ratnam's little mill in Bangalore and only sold in Bombay through the shop run by me.

   i)   How long does the speaker suppose to sit in the shop?

   1)   during the afternoon

   2)   during the morning

   3)   throughout the night

   4)   throughout the day

   ii)   What is the name of the mill that was mentioned in the passage?

   1)   Mr. Ratnamani

   2)   Mr. Ratnam

   3)   Mrs. Ratnam

   4)   Ms. Ratnam

iii) What did the speaker of the passage lose?

1) Job

2) Name

3) Money

4) Fame

iv) Where does the speaker sell the saris and cholipieces?

1) Hyderabad

2) Delhi

3) Bangalore

4) Bombay

v) What were the items sold in the shop?

1) Pants and shirts

2) Saris and cholipieces

3) Saris and pants

4) Saris and shirts

2) a) Correct the following sentences : *(5 × 1 = 5)*

i) The news are true.

ii) They are living in Tirupati since 1909.

iii) I have visited Hyderabad last month.

iv) Godavari is a sacred river.

v) I have written a letter yesterday.

b) Rewrite the sentences as directed : *(5 × 1 = 5)*

i) I will take milk tomorrow. (Change into passive voice)

ii) Srivani is a good woman. (Add a question tag)

iii) The master said "Honesty is the best policy". (Change into Indirect speech)

iv) Teja has been suffering with fever since Sunday. (Use appropriate preposition)

v) Chennai is the greatest city in India. (Change into positive degree)

c) Change the following into direct speech *(2 × 1 = 2)*

i) Mother asked her son where he was going.

ii) The servant reported that tea is ready.

d) Fill in the blanks with correct forms of verbs given in brackets. *(5 × 1 = 5)*

i) Teja _____ (meet) him tomorrow.

ii) Venu _____ (receive) the letter a week ago.

iii) I _____ (finish) my home work.

iv) They _____ (sell) this car for sure.

v) She _____ (be) in hospital for six months by the end of July.

e) Fill in the blanks with suitable words given at the end of the list. *(5 × 1 = 5)*

    i) The boy _____ every morning from five to seven.

    ii) Delhi _____ the capital city of India.

    iii) The Government is trying to reduce _____.

    iv) It rained _____.

    v) A triangle _____ three sides.

    (reopens, heavily, poverty, is, studies)

f) Rewrite the following set of jumbled sentences to make them into a coherent passage. *(3)*

    i) He had no money.

    ii) He did not go in.

    iii) My grandfather's portrait hung above the mental piece in the drawing room.

    iv) He has an efficient man of justice.

    v) Sher Singh always felt shy even in his house.

g) Attempt a dialogue between two friends discussing about the price rise in the state. *(3)*

h) Write a paragraph using the following hints. *(3)*

The role of advertisement in sales – types of ads – purpose – cost involved – a burden to the customer or an advantage.

i) Write in about 100 words on any one of the following : *(3)*

    1) Sound pollution.

    2) Fast foods.

    3) Influence of cinema on society.

Section - B

3) Write an essay on any ONE of the following : *(1 × 5 = 5)*

a) Describe briefly how Nehru spent his days in prison.

b) Narrate in brief the attempt of the people to catch the snake.

c) How the lovers did come together ultimately in lovers Reunion?

4)   Write short notes on any three of the following :   *(3 × 3 = 9)*

    a)   What is the central idea of the poem, "Sonnet to Science".

    b)   Describe the express in your own words.

    c)   What is the effect of the piano on the Africans?

    d)   Summarise John Masefield's poem 'Laugh and be Merry'.

    e)   Why it is difficult to kill a tree?

5)   Write an essay on any one of the following :   *(1 × 5 = 5)*

    a)   What is the theme of the story, the Refugees'.

    b)   Narrate briefly the story of the fortune Teller.

    c)   What is the theme of the story, "The Gold Watch".

6)   a)   Explain any Two of the following :   *(2 × 2 = 4)*

       i)   In the solitute of prison I shall think of you a great dad.

       ii)   No, it's a kind of rheumatism she gets sometimes.

       iii)   You ask, what is our aim? I can answer in one word. It is victory.

  b)   Explain any one of the following :   *(1 × 4 = 4)*

       i)   God made heaven and earth for joy.

       ii)   All is, if I have grace to use it so, an ever in my hard task Master's eye.

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B.A./B.Com./B.Sc./B.B.M./ B.B.A./B.H.M. DEGREE EXAMINATION,   **DECEMBER - 2015**

(Examination at the end of First Year)

(Part – I) : TELUGU

Paper – I : Poetry, Novel and Grammar

Time : 03 Hours   **Maximum Marks : 70**

<u>అన్ని ప్రశ్నలకు సమాధానాలు రాయండి.</u>

1)   ఈ క్రింది పద్యాలలో ఒక దానికి ప్రతి పదార్థ తాత్పర్యాలు రాయండి.   **(6)**

    a)   వివరీతప్రతిభాష లేమిటికి నుర్వీనాథ! యాపుత్రగా

        త్రవరిష్వంగ సుఖంబు సేకొనుము ముక్తాహార కర్పూర సాం

        ద్రవరాగప్రసరంబు చందనము చంద్ర జ్యోత్స్న యుంబుత్రగా

        త్ర పరిష్వంగము నట్లు జీవులకు హృద్యంబేకడున్ శితమే.

    b)   పెంపేదన్ దమకిట్టి తక్కువలు రూపింవంగ నేలా? విచా

        రింవన్ వారిక మేలు సంధిదము వారిం జూచినందారు సా

        ధింవంజాలరొ? కాకపోర చదగమర్దింవందలంపెనిశం

        కింవం బట్టొకొ? వారు బ్రాహ్మణులె యేకీడైన సైరింవగన్.

2)   ఈ క్రింది వానిలో ''అ'' భాగం నుండి రెండింటికి, ''ఆ'' భాగంనుండి రెండింటికి సందర్భ సహిత వ్యాఖ్యలు రాయండి.

                                                (4 × 2 = 8)

<u>'అ'భాగం</u>

    a)   పురుషనకియ్యేవురనయంబును గురువులు.

    b)   అలుపాల చబొనువడునట్టి చిచ్చేయిది.

    c)   వీటిడి యైన మానిసికి వెండి వివేకము గల్గనేర్చునే.

    d)   ఒల్ల పోయితిమి ప్రాయిగల పొట్టపెట్టి.

<u>'ఆ'భాగం</u>

    a)   చల్లుడాంద్రలోకమున నక్షతలునేడు.

    b)   కత్తివైరంకాల్చవోయి.

c) నీకలహంబు కన్నను ప్రార్థనీయమగునె.

d) అడవి తోగుల రాణియన్నట్లుతోచింది.

3) ఈ క్రింది వానిలో 'అ' భాగం నుండి ఒకదానికి, 'ఆ' భాగం నుండి ఒక దానికి వ్యాసరూప సమాధానాలు రాయండి.

(2 × 6 = 12)

'అ'భాగం

a) శకుంతల గుణశీలాలను పరిశీలించండి.

b) పరమేశ్వరుడు బెజ్జ మహాదేవికి నిత్యత్వం ప్రసాదించిన విధానాన్ని వివరించండి.

'ఆ'భాగం

a) పాఠ్యభాగమాధారంగా శ్రీకృష్ణుడు ద్రౌపదిని ఓదార్చిన విధమెట్టిదో పేర్కొనండి.

b) శ్రీకృష్ణుని చేష్టలను గోపస్త్రీలు యశోదకు విన్నవించిన విధానాన్ని తెల్పండి.

4) ఈ క్రింది వానిలో 'అ' భాగం నుండి ఒకదానికి, 'ఆ' భాగం నుండి ఒకదానికి వ్యాసరూప సమాధానాలు రాయండి.

(2 × 6 = 12)

'అ'భాగం

a) దేశభక్తి గేయంలోని అంతర్జాతీయ భావనను విశదీకరించండి.

b) కిన్నెరనడకల సోయగాన్ని వర్ణించండి.

'అ'భాగం

a) "కృషీవలుడు" ఆధారంగా కర్షకుని జీవితాన్ని వివరించండి.

b) 'గబ్బిలము' ద్వారా అరుంధతీ సుతుని బాధలను తెలవండి.

5) ఈ క్రింది వానిలో రెండింటికి సమాధానాలు రాయండి.   **(2 × 6 = 12)**

a) "కాలాతీత వ్యక్తులు" లో డా॥ చక్రవర్తి పాత్రౌచిత్యాన్ని పరిశీలించండి.

b) "కాలాతీత వ్యక్తులు" లోని తాత్విక దృక్పథాన్ని సమీక్షించండి.

c) ఆనందరావు పాత్రను విశ్లేషించండి.

d) "కాలాతీత వ్యక్తులు" నవలలోని సామాజిక స్థితిగతులను పరిశీలించండి.

6) ఈ క్రింది వానిలో ఐదింటిని విడదీసి సంధి కార్యాలు రాయండి. **(5 × 2 = 10)**

    a)   హస్తాబ్జము   b)   వృకోదరుడు

    c)   అయ్యది   d)   ప్రత్యక్షము

    e)   గుణవంతురాలు   f)   నిద్రవోయె

    g)   చెక్కుటద్దము   h)   ఏమేమి

    i)   ఇంటింట   j)   ఏకైక

7) ఈ క్రింది వానిలో ఐదింటికి విగ్రహ వాక్యాలు రాసి, వాటి సమాస నామాలు తెలపండి. **(5 × 2 = 10)**

    a)   ఇసుకపాతర   b)   కాళరాత్రి

    c)   మూడుముళ్ళు   d)   ఇరుగుపొరుగు

    e)   చంద్రశేఖరుడు   f)   వరిష్యంగసుఖం

    g)   కన్నీటిపాట   h)   సనాతనధర్మం

    i)   ద్వాదశరుద్రులు   j)   పుణ్యాచార్యుడు

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B.A./B.Com./B.Sc./B.B.M./ B.B.A./B.H.M. DEGREE EXAMINATION,   DECEMBER - 2015

(Examination at the end of First Year)

(Part – I) : HINDI

Paper - I : General Hindi

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

SECTION - A

1)   किन्ही तीन की संदर्भ सहित व्याख्या कीजिए ।   **[3 × 3 = 9]**

अ)   नई बातो से घबराना और उनके पक्षपातियों को निन्दा करना मनुष्यका स्वभाव हो गया हैं ।

ब)   वे हम चिता में भुने जा रहे हैं कि काश, एजन्ट की मोटर, उनकी मासिक आय और उनकी तडक भडक भी मेरी होती ।

क)   कालिदास और भवभूति का संपूर्ण –प्रदेय भारतीय वस्तु है, वह किसी प्रदेश का उत्तराधिकारी नही हैं ।

ड)   आप लेखक हो और मेहमान नवाज प्रकाशक हो तो समझ लीजिए दाल–दाक की पूडियों और कद्दे की तरकारी खिलाकर वह आप से मुफ़्त लेख लिखाना चाहता हैं, इस काल के अतिथि सत्यकार से ब्रह्मण सावधान

SECTION - B

2)   किसी एक पाठ का सारांश विशेषताओं सहित लिखिए ।   **[10]**

अ)   कवि और कविता

ब)   अतिथि

3)   किसी एक पाठ का सारांश विशेषताओं सहित लिखिए ।   **[10]**

अ)   भारतीय साहित्य का एकता

ब)   ईर्ष्या तून गयी मेरे मन से

4)   किसी एक कहानी का सारांश विशेषताओं सहित लिखिए ।   **[10]**

अ)   ठकुर का कुआँ

ब)   पुरस्कार

5)   दशहरे की छुट्टियों में अपने गाव आने का निमन्त्रण देते हुए मित्र को पत्र लिखिए ।   **[10]**

अथवा

अपनी पाठ्य पुस्तकों का आर्डर देते हुए किसी पुस्तक विक्रेता के नाम पत्र लिखिए ।

6) किन्ही दो प्रश्नों का जवाब दस पंक्तियों में लिखिए ।   [2 × 3 = 6]

अ) मधुलिका का चरित्र चित्रण लिखिए ।

ब) शामनाथ की माँ का चरित्र चित्रण कीजिए ।

क) रोज कहानी का उद्देश्य – कथन

ड) उसने कहाथा काहनीका उद्देश्य–कथन

7) सब प्रश्न लिखना अनिवार्य हैं ।   [10 × 1 = 10]

अ) तुम तुम्हारी पुस्तक लाओ (शुद्ध कीजिए)

ब) उसका पति अब नही रहा (लिंग बदलकर लिखिए)

क) विद्यालय में बालक पढ रहा है (वचन बदलकर लिखिए)

ड) मैं आम खाता हूँ (वाच्य बदलकर लिखिए)

इ) नदी ------- मंगर हैं (रिक्तस्थान पूर्ति कीजिए)

फ) मैं पानी पी रहा हूँ (भविष्यतकाल में लिखिए)

य) जुलाहा (लिंग बदलिए)

र) सरला ने कहानी लिखी (वचन बदलकर लिखिए)

ल) Emergency (इस शब्द का अर्थ हिन्दी में लिखिए)

व) समीक्षा (इस शब्द का आंग्रीजी में लिखिए)

8) किन्ही दो शब्दों को अर्थ हिन्दी में लिखकर वाक्य में प्रयोग कीजिए ।   [2 × 2½ = 5]

अ) हाथ पीला करना

ब) नौ दो ग्यारहा होना

क) जान हथेली पर रखना

ड ऊण्ट के मूँह में जीरा

इ) प्रतीक्षा

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B.A./B.Com./B.Sc./B.B.M./B.B.A./B.H.M. DEGREE EXAMINATION, DEC. – 2015

(Examination at the end of First Year)

(Part – I) : SANSKRIT

Paper - I : Poetry, Grammar and Translation

Time : 3 Hours   **Maximum Marks: 80**

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Answer the following   *[3 × 10 = 30]*

1) a) Explain the state of the people in the rule of Dasaratha's in 300 words.

दशरथस्य राज्ये प्रजानां स्थिति विवृणुत?

OR/अथवा

b) Explain in not more than 300 words the characteristics of learned man according to Viduraniti.

विदुरनीतो प्रतिपादितरीत्या पण्डितलक्षणानि **300** मितेषु पदेषु विवृणुत।

2) a) Describe the criticism of siva by the celibate to turn Parvati's mind

जटिल : शिवं कथं निनिन्द?

OR/अथवा

b) Explain the facour done to the brahmin by Rajavahana.
राजवाहनकृतां द्विजोपकृतिं विवृणुत।

3) a) Write the story of "mrutoggivana".
मृतोज्जीवनं नामोपाख्यानं लिखत।

OR/अथवा

b) Write the story of चतुर:शशकः।

"चतुर: शशकः' – इति कथां लिखत।

4) Answer any four from the following with reference to context.   *[4×4=16]*

चत्वारि – ससन्दर्भ लिखत ।

   i)   दूतमुखा हि राजान : सर्व एव।

   ii)   लोके दुर्जनकण्टको नास्ति।

   iii)   नक्षात्राणीव चन्द्रमा:।

   iv)   मित्रं द्वेष्टि हिनस्ति च।

   v)   शरीरमाद्यं खलु धर्मसाधनम्।

   vi)   मनोरथानामगतिर्न विद्यते।

   vii) संकीर्तितो पश्यति जीवलोकम्।

   viii) अस्मिन् कानने दूरीकृतकलमो वसामि।

5) Translate any two into English or Telugu.   *[2 × 3 =6]*

श्लोकद्वयं आंग्लभाषायां आन्ध्रभाषायां वा अनुवदत ।

   i)   संसारयति कृत्यानि सवंत्र विचिकित्सते।

        चिरं करोति क्षिप्रार्थे स मूढो भरतर्षभ।

   ii)   आत्मज्ञानं समारम्भस्तितिक्षा धर्मनित्यता।

        यमर्था न्नापकर्षन्ति स वें पण्डित उच्यते।

   iii)   इष्टां भार्यां प्रियं मित्रं पुत्रं चातिकनीयसम्।

        रिक्त पाणिर्न पश्येत्तु तथा नैमित्तिकं नृपम्।

   iv)   आपदर्थं धनं रक्षेद्दारान्त क्षेद्धनैरपि।

        आत्मानं सततं रक्षेद्दारैरपि धनैरपि।

6)   a)   Write the forms of any three in the other numbers of the given persons. *[3 × 2 = 6]*

त्रयाणां इतरवचनेषु रूपाणि लिखत।

     i)   भवेत्।

     ii)   अपश्यत्

     iii)   मोदे।

     iv)   मुञ्च।

     v)   अकशेत्।

     vi)   कथय।

   b)   Write any four in the given cases -   *[4 × 2 = 8]*

चतुर्णां तत्तद्विभक्तिषु रूपाणि लिखत।

     i)   धातरि

     ii)   यानुषु।

     iii)   मत्या।

     iv)   वारिणे।

     v)   फलानि।

     vi)   रमा :

     vii)   नद्या।

   c)   Combine any four :   *[4 × 2 = 8]*

चत्वारि सन्धत्त।

     i)   वाणी + ईश : ।

     ii)   भो + अति ।

     iii)   तथा + एव।

     iv)   अनु + एति।

v)   वाक् + ईश:।

vi)   शिव: + अहम्।

vii) हरि: + चरति।

viii) पुत्र: + आगच्छति।

d)   Dissolve any three   *[3 × 2 = 6]*

त्रयाणां विग्रहवाक्यानि लिखत।

i)   द्वित्रा:।

ii)   चक्रपाणि:।

iii) दम्पती।

iv)   भूधर:।

v)   पञ्चगवम्।

vi)   घनश्याम:।

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B.Sc. DEGREE EXAMINATION, DEC. - 2015

(Examination at the End of First Year)

Part – II : INFORMATION TECHNOLOGY

Paper - I : Programming Using 'C' Language

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

Answer any five questions.   *(5 × 14 = 70)*

All questions carry equal marks.

1)   Explain in detail the structure of 'C' program and the importance of 'C' language.

2)   Explain formatted I/O functions in 'C' language with necessary illustrations.

3)   What are various Bit-Wise Operators available in C? Explain them in detail with examples.

4)   Explain about decision structures available in 'C' language with necessary illustrations.

5)   Write a 'C' program to find whether the given number is evenly divisible by 3 or not.

6)   What is the purpose of using functions? Explain the same with an example.

7)   Explain static, local, global, external variables with examples.

8)   What are arrays? What is purpose of using an array? What are different ways to store them in memory?

9)   Describe the distinct features of pointers. List the advantages and limitations of pointers?

10)   Explain in detail about structures and unions, how memory is allocated to each of them. Explain with example.

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B.Sc. DEGREE EXAMINATION, DEC. - 2015

(Examination at the End of First Year)

Part – II : INFORMATION TECHNOLOGY

Paper - I : Computer Organisation

Time : 3 Hours Maximum Marks : 70

Answer any five questions.

All questions carry equal marks.

1) What is an Addressing mode? Discuss in detail about the various Addressing modes with examples.

2) a) Simplify the following Boolean expression using K-Map

$$F=X'YZ+X'YZ'+XY'Z'+XY'Z$$

b) Discuss about the various types of Flip-Flops.

3) Explain how the arithmetic operations are performed on Floating point numbers with a neat diagram and with examples.

4) What is an instruction format? Discuss about the various instruction formats with examples.

5) What is cache memory? Discuss about mapping techniques in cache memory.

6) Write short note on :

a) Error Correcting codes.

b) I/O processor.

c) Binary Counter.

7) Explain about the different I/O interfaces.

8) What is a DMA? Discuss about the function and working of DMA with neat diagrams.

9)   a) Explain about the multiplication algorithm with example.

     b) Discuss about various modes of data transfer.

10) Discuss about the following :

    a)   Micro operations.

    b)   Parallel Processing.

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B.Sc. DEGREE EXAMINATION, DECEMBER – 2015

(Examination at the end of First Year)

Part - II : INFORMATION TECHNOLOGY

Paper - III : Data Structures

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

Answer any five questions

All questions carry equal marks

1) a) Define Data Structure. Discuss about the different types of data structures.

  b) Define Algorithm? Mention the features of an Algorithm.

2) What is meant by recursion. Discuss about the recursive procedure with an example.

3) Write about Strings and its operations with examples.

4) a) Explain about Two dimensional Array with examples.

  b) Write an Algorithm to find the length of a string.

5) a) Discuss about the operations performed on Queues.

  b) Define pointer? Mention the advantages and disadvantages of pointers?

6) a) Write an algorithm for sorting n elements in an array.

  b) Convert the Infix expression into prefix notation.

  $a + b * c - d * e/f*g$

7) a) What is a Linked list? Explain different types of Linked lists.

  b) Explain basic operations performed on single Linked List.

8) a) What is stack? List the applications of stacks.

   b) Discuss about priority Queues.

9) Write about Traversal techniques with examples.

10) Explain the producer for Linear search and Binary search with examples.

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B.Sc. DEGREE EXAMINATION, DECEMBER - 2015

(Examination at the end of First Year)

Part – II : INFORMATION TECHNOLOGY

Paper - I : Discrete Mathematics

Time : 3 Hours   Maximum Marks : 70

Answer any five questions

Each question carries 14 marks

1)   a)   Define set? Explain about the operations on sets briefly.

    b) $\neg(P \vee (\neg P \cap Q)) \Leftrightarrow \neg P \cap \neg Q$

2)   a)   Discuss about the permutation in briefly.

    b)   Enumerating r-combinations without repetitions.

$$C(n, r) = P(n, r) = \frac{n!}{(n-r)!\,r!}$$

3)   a)   Explain about the relation and Digraphs in briefly.

    b)   Show that the relation $(x, y)\ R\ (a, b) \Leftrightarrow x^2 + y^2 = a^2 + b^2$ is an equivalence relation on the plane, describe the equivalence classes.

4)   a)   Define different types of relations and transitive closure of the relation.

    b)   Find the transitive closure by using Warshau's algorithm of R, defined on A,

       A = {1, 2, 3, 4}, R = {(1, 2), (2, 3), (3, 4), (2, 1)}

5)   a)   Define a graph? Explain about the basic concepts of graph theory?

    b)   Explain about the various representations of graph.

6)   Explain about the DFS and BFS procedure of a graph in briefly.

7)   a)   Explain Boolean Expressions and Boolean functions.

b)   Find the values of Boolean functions represented by $F(x, y, z) = xy + \bar{z}$.

8)   a)   Find the minterm that equals '1' if $x_1 = x_3 = 0$ and $x_2 = x_4 = x_5 = 1$, and equals zero otherwise.

b)   Find the sum – of – products expansion for the function $F(x, y, z) = (x + y)\ \bar{z}$.

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