ASSIGNMENT-1
B.A./B.Com/B.Sc./B.H.M./BBA/BBM DEGREE
EXAMINATIONS, JUNE/JULY - 2020
First Year
ENGLISH PAPER - I (Part - I)
Maximum : 30 MARKS
Answer ALL Questions

Q1) a) Read the following passage and answer the questions that follow.

   Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. By contrast, in musical theater an actor's dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theater such as scenery, costumes and acting. However, the words of the opera, or libretto, are sung rather than spoken.

   i) What are the different elements of a theater?

   ii) What else is conveyed to the audience apart from music?

   iii) What is libretto, how is it different from speaking?

   iv) How is a musical theater different from an opera?

   v) Give the antonym for 'contrast'.

   b) Read the following passage and answer by choosing the right answer

   Dolphins are regarded as the friendliest creatures in the sea, stories of them helping drowning sailors have been common since Roman times. The more we learn about dolphins, the more we realise that their society is more complex than people previously imagined. They look after other dolphins when they are ill, care for pregnant mothers and protect the weakest in the community, as we do. Some scientists have suggested that dolphins have a language but it is much more probable that they communicate with each other without needing words. Could any of there mammals be more intelligent than man?Certainly the most common argument in favours of man's superiority over them, is that we can kill them more easily than they can kill us is the least satisfactory, on the contrary, the more we discover about these remarkable creatures, the lees we appear superior when we destroy them.

   i) It is clear from the passage that dolphins _____.

      a) are the most powerful creatures that live in the oceans.

      b) Have a reputation for being friendly with humans.

      c) are proven to be less intelligent than once thought.

      d) are capable of learning a language and communicating with humans.

ii)   What is the antonym for 'complex'?

    a)   intricate

    b)   complicated

    c)   multiple

    d)   straight forward

iii)   The fact that the writer thinks that we can kill dolphins more easily than they can kill us _____.

    a)   proves that dolphins are not the most intelligent species.

    b)   means they are better adapted to their environment than we are

    c)   does not mean we are superior to them

    d)   show that they have a sophisticated form of communication.

iv)   what is the synonym for 'superior'?

    a)   Lofty

    b)   humble

    c)   inferior

    d)   modest

v)   One can infer from the reading that ____.

    a)   dolphins are quite abundant in some areas of the world.

    b)   it is not usual for dolphins to communicate with each other.

    c)   dolphins have some social traits that are similar to those of humans

    d)   dolphins have skills that no other   living creatures have such as the ability to think.

Q2) a)   Correct the following sentences.

i)   why did you not threw the bag away?

ii)   the intruder stood quietly for few moments.

iii)   He found the gold coin as he cleans the floor.

iv)   She cooks, washes dishes, does her homework and then relaxing.

v)   They are not beware of all the facts.

b)   Rewrite as directed :-

i)   Sumith picked up the shoes .

    (Change the Voice)

ii)   The boy was diligent, so the teacher praised him . (change into simple sentence)

iii)   Their family went to kerela for a vacation. (add a question tag)

iv)   She said, It is really sultry today.

    (change into indirect speech)

v)   susan has finished her homework.

    (change into negative sentence)

c)   Change into direct speech :

i)   She said that she failed the exam.

        ii)   Raju told me to clean the room.

d)   Fill in the blanks with correct forms of verbs given in the brackets.
        i)   The doctor told him to stop _____ (smoke) and take a trip.
        ii)   They _____ (come) here next week to visit my new office.
        iii)   I am tired of _____ (work) here.
        iv)   I have decided _____ (study) more and improve my overall average.
        v)   Could you _____ (help) me please?

e)   Fill in the blanks with suitable words given in the end.
        i)   The roof on the house _____.
        ii)   did you _____ the mistake in your homework?
        iii)   The house _____ along the trail.
        iv)   The lightning _____ the tree.
        v)   She _____ for her friend at the mall.
        (Struck, fix waited, leaks, trotted)

f)   Rewrite the following set of jumbled sentences to make a coherent passage.
        i)   She wanted to serve mankind.
        ii)   She took birth on August 26th 1910 at skopje.
        iii)   She served the poor, diseased and needy people of the Nation till her last breath.
        iv)   Mother Teresa's real name was Agnes Gonxha Bojaxhiu.
        v)   On December 1, 1928, Sister Teresa went to India.

g)   Write three exchanges of dialogue between a teacher and a student requesting for leave.(3)

h)   Write a paragraph using the following units.
        new neighbour -name -age looks -family background-vocation-peculiar habits - How others view him/her - Attitude to life - Your opinion about person.

i)   Write in about 100 words on the following.
        i)   Effects of not getting enough sleep.
        ii)   Why reality shows are popular.
        iii)   Effects of computers on our daily lives.

Q3) Write an essay on the following.
    a)   Bring out the humour in James Thurber's "The Topaz Cufflinks Mystery".
    b)   Justify the title, "Blood, Toil, Sweat and Tears".
    c)   Summerize the prose "A chat with Mrs. Smiles".

DENG1

ASSIGNMENT-2
B.A./B.Com/B.Sc./B.H.M./BBA/BBM DEGREE
EXAMINATIONS, JUNE/JULY - 2020
First Year
ENGLISH PAPER - I (Part - I)
Maximum : 30 MARKS
Answer ALL Questions

Q1) Write short notes on the following
  a) What is the central theme on "Sonnet to Science"?.
  b) Summarize the poem "Tables Turned".
  c) How does the poet persuade us against deforestation in the poem "On killing a tree".
  d) Justify the title, "Laugh and Be Merry".
  e) Describe Milton's reflection of himself in the poem "On his Having Arrived at the Age of Twenty-three".

Q2) Write an essay on the following.
  a) Describe the deceit and deception of vera, in "The Open Window".
  b) Discuss the appropriateness of the title, Lemon, Yellow and fig".
  c) elaborate on the hardships faced by the old refugee.

Q3) a) Explain the following :
  i) come then, let us go forward together with one united strength.
  ii) 'I made some money yesterday' he explained. 'Now you will be paid regularly'.
  iii) We owe that miracle to science ; and it is a miracle.

  b) Explain the following :
  i) The song of her whistle screaning at curves of deafening tunnels, breaks innumerable bolts.
  ii) God made heaven and earth for joy he took retryme made them, and filled them with the strong red wine of his mirth.

ASSIGNMENT-1
B.A/B.Com/B.Sc./BHM/BBA/BBM DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
Telugu Paper - I (Part - I)
Maximum : 30 MARKS
Answer ALL Questions

Q1) ఈ క్రింది వానికి ప్రతిపదార్థ తాత్పర్యము వ్రాయుము.

    a) నుతజల పూరితంబులగు నుతులు నూతిటికంటే సున్నత
        వ్యత యెుక్క బావి మేలు మటిబావులు నూతిటి కంటే నొక్కస
        త్రక్తు వదిమేలు తత్రక్తు శతంబున కంటె సుతుండు మేలుత
        త్యుతుశతకంబు కంటెనొక్క సున్నత వాక్యముమేలు చూడగన్

    b) ఆ అడి బోకయిన్ ఫలము నందుటయంగని పల్కనేరమిన్
        దూటట నోరిదాననయ మాటలు చిత్తమునందు నిల్ప కే
        కాటులు ప్రేలెడున్ వినుడు కర్ణముల నెగ్గనుగాను నల్మమై
        వీటిడి యైన మానిసికి వెండి వివేకము గల్గనేర్చునే

Q2) ఈ క్రింది వానికి సందర్భ సహిత వ్యాఖ్యలు వ్రాయుము.

<u>అ – భాగము</u>

    a) ఎటిగియెుటుగ నోల్లని కటటిందెలుప కమల గర్భుని వశమే

    b) వారు బ్రాహ్మణులె యేకీడైన సైరింపగన్

    c) ఇట్టిమనుజా లుర్వికలరె

    d) ఓగిరముగ సుత్యుని చంపుటు చితమె మీకన్

<u>ఆ – భాగము</u>

    a) మంచిగ తమున కొంచెమేనోయ్

    b) చావలేదు ఆంధ్రుల మహోజ్వల చరిత్ర

    c) సిరియో భోగోప లబ్ధికి జీవగఱ్ఱ

    d) కదలు తెల్లని పూల నదివోలె కదలింది

Q3) ఈ క్రింది వానికి వ్యాసరూప సమాధానము వ్రాయుము.

<u>అ – భాగము</u>

    a) శకుంతల గుణశీలములను వివరింపుము.

    b) బెజ్జమహాదేవి వృత్తాంతమును వివరింపుము.

<u>ఆ – భాగము</u>

    a) ద్రౌపది పందెవనమును వివరింపుము.

    b) శ్రీకృష్ణని గుణశీలాలను ఎట్టన చిత్రించిన విధమును వివరింపుము.

ASSIGNMENT-2
B.A/B.Com/B.Sc./BHM/BBA/BBM DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
Telugu Paper - I (Part - I)
Maximum : 30 MARKS
Answer ALL Questions

Q1) ఈ క్రింది వానికి సమాధానము వ్రాయుము.

అ – భాగము

a) దేశ భక్తి అంటే ఏమిటో వివరించండి.

b) ప్రబోధము ద్వారా రాయప్రోలు వారి సందేశమేమి.

ఆ – భాగము

a) దువ్వూరి రామిరెడ్డి గారు చిత్రించిన కర్షక జీవన సౌందర్యాన్ని గూర్చి తెలుపండి.

b) విశ్వనాధవారు కిన్నెరసాని పాత్రను చిత్రించిన విధమును వివరించండి.

Q2) ఈ క్రింది వానికి సమాధానములు వ్రాయుము.

a) కాలాతీత్య వ్యక్తులు నవలలో ప్రతిఫలించే నాటి సాంఘిక స్థితి గతులను వివరింపుము.

b) కాలాతీతవ్యక్తులలో కృష్ణమూర్తి పాత్రను వివరింపుము.

c) కాలాతీతవ్యక్తుల నామసార్ధక్యమును వివరింపుము.

d) కళ్యాణిపాత్ర ఔచిత్యమును వివరింపుము.

Q3) ఈ క్రింది వానిని విడదీసి సంధికార్యములు వ్రాయుము.

a) కట్టకడ

b) పాదోదకము

c) అయ్యనలము

d) తల్లిదండ్రులు

e) ప్రత్యక్షము

f) విగతాశ

g) పరమేశుడు

i) తన్మయత

j) కులాంగన

Q4) ఈ క్రింది వానికి విగ్రహవాక్యములు వ్రాసి సమాసములు వివరింపుము.

a) ధర్మ నందనుని పలుకులు
f) గంగాధరడు

b) శాంతవచనములు
g) జడకుచ్చు

c) విషాదరోషములు
h) మహాపాపము

d) పాలమీగడలు
i) కణ్వ మహాముని

e) నాల్గుమూలలు
j) అసత్యము

ASSIGNMENT-1
B.A./B.Com./B.Sc./ B.H.M. /B.B.M./B.B.A.
DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
SANSKRIT (Paper – I) (NR)
Maximum : 30 MARKS
Answer ALL Questions

Q1) a) Describe the status of people in the rule of Dasaratha?

दशरथस्य राज्ये प्रजानां स्थितिं विवृणुत ?

b) Explain the Qualities of fools as described by VIDURA in 300 words?

महात्मना विदुरेण मुर्खस्य कानि कानि लक्षणानि वर्णितानि ? तानि ३०० मितपदेषु विशदयत ?

Q2) a) Describe the words of the bachelor to divert the mind of Parvathi?

पार्वत्या: मन: निवर्तयितुं जटिलेनोक्तानि वचनानि विवृणुत ?

b) Write in brief the story of Dasakumara Charita?

दशकुमारचरितस्य परिचयं संक्षेपेण लिखत ?

Q3) a) Describe the six seasons as per the prescribed Text?

पाठ्यभागमनुसृत्य षड्ऋतून् वर्णयत ?

b) Write the story of "Mritojjeevanam"?

मृतोज्जीवनं नामोपाख्यानं लिखत ?

ASSIGNMENT-2

B.A./B.Com./B.Sc./ B.H.M. /B.B.M./B.B.A.
DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
SANSKRIT (Paper – I) (NR)
Maximum : 30 MARKS
Answer ALL Questions

Q1) Answer the following with reference to context.

a) धनैश्च सञ्चयैश्चान्यै: शक्रवैश्रवणोपम:।

b) दानाध्ययनशीलश्च संयताश्च प्रतिग्रहे।

c) न जानाति मन्त्रं वा मन्त्रितं परे।

d) योगज्ञ: सर्वकर्मणाम्।

e) शरीरबद्ध: प्रथमाश्रमो यथा।

f) श्मशातशूलस्य न यूपसत्क्रिया।

g) निर्विषेणापि सर्पेण कर्तव्या महती फणा।

h) अस्मित् कानने दूरीकृतकलमो वसामि।

Q2) Translate into English or Telugu :

आन्ध्रभाषायां वा आंग्लभाषयां वा अनुवादत।

a) यस्य कृत्यं न जानन्ति मन्त्रं वा मन्त्रितं, परे।
कृतमेवास्य जानन्ति स वै पण्डित उच्यते।।

b) श्रुतं प्रज्ञानुगं यस्य प्रज्ञा चैव श्रुतानुगा।
असम्भिन्नार्य मर्याद: पण्डिताख्यां लभेत स:।।

c) संसारयति कृत्यानि सर्वत्र विचिकत्सते।
चिरं करोति क्षिप्रार्ये स मूढो भरतर्षभ।।

d) अनाहूत: प्रविशति अपृष्टो बहुभाषते।
अविश्वस्ते विश्वसिति मूढचेता नराधम:।।

Q3) a) Write the forms in the other numbers of the given persons
तत्तल्लकारेषु धातुरुपाणि लिखत।

1) भविष्यति 2) अगच्छत्
3) तिष्ठतु 4) व्यतरत्
5) अलभत् 6) मोदताम्
7) भाषते 8) रमते

b) Decline as per the case ending.

1) देवात् 2) कवये
3) भानौ 4) पितरम्
5) गाम् 6) रमायै
7) मत्याम् 8) नद्या

c) Combine Sandhi's.

1) राम + अनुज: 2) नव + उदय:
3) तथा + एव 4) इति + आह
5) पौ + अक: 6) तद् + जलम्
7) वाक् + मयम् 8) सुप् + अन्त:।

d) Dissolve the following :

1) निष्पापम् 2) उत्तरकाय:
3) गुरूदक्षिणा 4) राजदुत:
5) अज्ञातम् 6) कृष्णसर्प:
7) शीतोष्णम् 8) ससर्षय:।

ASSIGNMENT-1

B.A./B.Com./B.Sc./B.H.M./B.B.A/B.B.M. DEGREE

EXAMINATION, JUNE/JULY - 2020

First Year

HINDI (Paper – I) (NR)

Maximum : 30 MARKS
Answer ALL Questions

Q1) सन्दर्भ सहित व्याख्या कीजिए।

    a)   कालेज का अध्यापक अगर लेखक भी हो, तो उसके लिए अतिथि की आवाज यमदूत के संदेश से कम भयावह नहीं होती।

    b)   ईर्ष्या की बड़ी बेटी का नाम निन्दा है। जो व्यक्ति ईर्ष्यालु होता है, वही व्यक्ति बुरे किस्म का निन्दक भी होता हैं।

    c)   संसार में जो बात जैसी दिख पड़े कवि को उसे वैसा ही वर्णन करना चाहिए।

    d)   कालिदास और भवभूति का सम्पूर्ण प्रदेय भारतीय वस्तु है, वह किसी प्रदेश का उत्तराधिकारी नहीं।

    e)   हाथ में बुरी तरही चुभे, खून निकल आया, उसी रूमाल से मैने उँगली बाँधी। तब तक तो रूमाल थी ही। सरकारी नौकरी का शुल चुभकर भी क्षणिक दर्द देकर रह गया।

Q2)   पाठ का सारांश विशेषताओं सहित लिखिए।

    a)   अतिथि।

    b)   बाजार दर्शन

Q3)   पाठ का सारांश विशेषताओं सहित लिखिए।

    a)   आपने मेरी रचना पढ़ी ?

    b)   लज्जा और ग्लानि

Q4)   कहानी का सारांश विशेषताओं सहित लिखिए।

    a)   आदमी का बच्चा

    b)   चिफ की दावत।

ASSIGNMENT-2

B.A./B.Com./B.Sc./B.H.M./B.B.A/B.B.M. DEGREE

EXAMINATION, JUNE/JULY - 2020

First YearHINDI (Paper – I) (NR)

Maximum : 30 MARKS

Answer ALL Questions

Q1) a) हिन्दी अध्यापक की नौकरी के लिए प्रधानाध्याप के नाम पर पत्र लिखिए।

  b) किसी पाठ्यक्रम की पुस्तकों के लिए आर्डर भेजेगें।

Q2) प्रश्नों का जवाब दस पंक्तियों में लिखिए।

a) लहनासिंह का चरित्र-चित्रण लिखिए।

b) ''पुरस्कार'' कहानी का क्या उद्देश्य हैं?

c) ''रोज'' कहानी का शीर्षक की सार्थकता पर प्रकाश डालिए।

d) ''बिरजू'' का चरित्र चित्रण कीजिए।

Q3) सब प्रश्नों का उत्तर लिखना अनिवार्य हैं।

a) कवि कविता लिखते हैं। (''लिंग'' बदलकर लिखिए।)

b) <u>लड़का</u> शोर मचाता हैं। (''वचन'' बदलकर लिखिए।)

c) पोतना से भागवतम् लिखा गया। (''वाच्य'' बदलकर लिखिए।)

d) मोहन पाठ लिखता हैं। (तात्कालिक वर्तमानकाल में बदलिये।)

e) राधा रोटी खा रही हैं। (भूतकाल में लिखिये।)

f) श्रीकृष्ण ने <u>कंस</u> को मारा। (कारक का नाम कोष्ठक में लिखिये।)

g) कमला अच्छी घी लाती है। (शुद्ध कीजिए।)

h) गाँधीजी सभा में बोले। (वाच्य बदलकर लिखिए।)

i) माँ ने <u>बेटे</u> को रूपये दिये। (कारक का नाम लिखिए।)

j) Collector (इस शब्द का अर्थ हिन्दी में लिखिए।)

Q4) शब्दों का अर्थ हिन्दी में लिखकर वाक्यों में प्रयोग कीजिए।

  a) अजीब

  b) आलसी

  c) सबूत

  d) आपस मे

  e) हँसी खेल।

ASSIGNMENT – 1
B.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
PROGRAMMING USING C LANGUAGE (IT)
Maximum : 30 MARKS
Answer ALL Questions

Q1) Explain various operators available in C - language.

Q2) What are looping statements in C - language? Explain with examples.

Q3) What are the operations on Arrays?

Q4) Define function. Explain about function signature and function prototyping.

Q5) Write a program structure. Explain in detail.

ASSIGNMENT – 2
B.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
PROGRAMMING USING C LANGUAGE (IT)
Maximum : 30 MARKS
Answer ALL Questions

Q1) What are input and output statements? Explain each one with example.

Q2) Explain about array of pointers. Give an example for pointer arithmetic.

Q3) Write a syntax and examples for structure within structure.

Q4) What are the difference between structure and unions?

Q5) Explain about Data files and Expressions.

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ASSIGNMENT – 1
BSC DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
Computer Organization (IT) (Part - II)
Maximum : 30 MARKS
Answer ALL Questions

Q1) Explain about Boolean Algebra in detail.
Boolean Algebra గూర్చి వివరించండి.

Q2) What is a flip flop? Explain about various flip flops.
flip flop అనగానేమి? వివిధ రకముల flip flops గూర్చి వివరింపుము.

Q3) Explain about various types of Interrupts.
వివిధ రకముల Interrupts గూర్చి వివరింపుము.

Q4) Explain about ALU and Stack organisation.
ALU మరియు Stack organisation గూర్చి వివరింపుము.

Q5) Explain about various Instruction formats.
వివిధ రకముల Instruction format ల గూర్చి వివరించండి.

ASSIGNMENT – 2
BSC DEGREE EXAMINATION, JUNE/JULY - 2020
First Year
Computer Organization (IT) (Part - II)
Maximum : 30 MARKS
Answer ALL Questions

Q1) Explain parrallel processing in detail.
Parrallel Processing గూర్చి వివరించండి.

Q2) Explain about DMA in detail.
DMA గూర్చి వివరించడి.

Q3) Explain about the memory Hierarchy.
Memory Hierarchy గూర్చి వివరించండి.

Q4) Explain Associate memory and virtual memory.
Associate memory మరియు virtual memory గూర్చి వివరించండి.

Q5) Explain about various Decoders.
వివిధ రకముల Decoder ల గూర్చి వివరించండి.

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ASSIGNMENT – 1
B.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020
First Year (Part - II)
Data Structures (IT)
Maximum : 30 MARKS
Answer ALL Questions

Q1) What is an ADT? Give an example for ADTS.

ADT అనగానేమి? ADT ల కొరకు ఉదాహరణలను ఇవ్వండి.

Q2) What is an array? Explain different types of arrays.

Array అనగా నేమి? వివిధ రకములైన array లను వివరించండి.

Q3) How to convert infix to postfix expression using stack?

stack ని ఉపయోగించి infix ను postfix లోకి ఎలా మార్చుతారు?

Q4) How can you implement doubly linked list? Explain with program.

Doubly linked list లను ఎలా implement చేస్తారు? program తో వివరించండి.

Q5) What is Queue? What are its operations?

Queue అనగానేమి? దీని యొక్క ఆపరేషన్లు ఏవి?

ASSIGNMENT– 2
B.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020
First Year (Part - II)
Data Structures (IT)
Maximum : 30 MARKS
Answer ALL Questions

Q1) What are traversing techniques? Explain with algorithm.
Traversing మెళుకువలు ఏవి? Algorithm తో వివరించండి.

Q2) What is string constant? How do string constant   differ from character constants? Give an examples for string processing.
String constant అనగానేమి? ఇది Character constant కన్నా విరుద్ధంగా ఎలా ఉంటుంది?   String processing కొరకు ఉదాహరణలను ఇవ్వండి.

Q3) Write an algorithm to find element in Binary tree?
Binary tree లో element లను వెతుకుటకు అల్గోరిథమ్‌ను వ్రాయండి.

Q4) What is heap sort? Write an algorithm to insert and delete elements from heap.
Heap sort అనగానేమి? heap లో నికి   element లను insert చేయుటకు మరియు తొలగించుటకు అల్గోరిథమ్ ను వ్రాయండి.

Q5) Write a program to implement Bubble sort?
Bubble sort ను implement చేయుటకు program ను వ్రాయండి.

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ASSIGNMENT – 1
B.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020
First Year (Part - II)
DISCRETE MATHEMATICS (IT)
MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

Q1) a) Prove the following are equivalent $A \subseteq B, A \cap B = A$ and $A \cup B = B$.

b) Prove that if A and B are finite sets then $A \cup B$ and $A \cap B$ are finite and
$$n(A \cup B) = n(A) + n(B) - n(A \cap B)$$

Q2) a) Prove that the following argument is valid
$$p \to q, q \to r \vdash p \to r$$ (law of syllogism)

b) Explain universal quantifier and existential quantifier with examples.

Q3) a) Prove that $$\binom{n+1}{r} = \binom{n}{r-1} + \binom{n}{r}$$

b) Simplify

i) $\dfrac{n!}{(n-1)!}$

ii) $\dfrac{(n+2)!}{n!}$

Q4) a) Let G be a graph with n > 1 vertices then the following are equivalent.
   i) G is a true.
   ii) G is a cycle - free and has (n – 1) edges.
   iii) G is connected and has (n – 1) edges.

b) Prove that a finite connected graph G is eulerian if and only if each vertex has even degree.

ASSIGNMENT – 2
B.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020
First Year (Part - II)
DISCRETE MATHEMATICS (IT)
MAXIMUM MARKS: 30
ANSWER ALL QUESTIONS

Q1) a) Draw a picture of a general tree T with 13 nodes.
A, B, C, D, E, F, G, H, I, J, K, L, M, N
and explain it.

  b) Consider the three trees T_1, T_2, T_3. Identify those which represent the same

    i) Rooted tree
    ii) Ordered rooted tree
    iii) Binary tree

Q2) a) Explain the algorithm searching and inserting in a Binary search tree.
  b) Explain the Inserting into a heap and deleting the root from a heap in algorithm.

Q3) a) i) State and prove DeMorgon's laws.

      1) $(a+b)' = a' * b'$

      2) $(a*b)' = a' + b'$

    ii) Explain the algorithm is applied to the following boolean expression
    $E = ((xy)'z)'((x' + z)(y' + z'))'$

  b) Write the algorithm for finding sum of products forms with examples.

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