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AECC10.1/10.2/10.3/10.4

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I Semester B.A./B.Sc./B.Com./B.B.A./B.C.A./B.H.M. Degree

Examination, February/March - 2024

ARABIC

Prose , Poetry & Grammar

Paper : I

(NEP AECC Fresher Scheme (F+R) 2021-22 & Onwards)

Time : 2½ Hours

Max. Marks :60

Instructions to Candidates:

1. Answer All the questions.
2. Marks are indicated against each question.

I. Fill in the Blanks

(5×2=10)

1. كان _____ ببغاء جميلة

(لوألد. لرجل. لجمال)

2. مخصارك _____ ياأخي

(شقى. سعيئد. نفيس)

3. تخرج _____ البستان

(فى. الى. من)

4. تنتظر صاحبها _____ رجوعه

(الى. عند. وقت)

5. فاذا _____ نادقه

(سمعنه. راته. قربته)

P.T.O.

II. Write the meaning of the following:

(10×1=10)

6. الكُرَاسَةُ
7. فَكِيهَةٌ
8. جُنَيْنَةٌ
9. زَهْرَةٌ
10. بَطِيخٌ
11. طَرِيقٌ
12. خُبْرٌ
13. بَابٌ
14. وَرَقٌ
15. نَافِذَةٌ

III. Write the following grammar any TWO.

(2×5=10)

16. اكتب تعريف المركب بالامثلة
17. اكتب قاعده المضاف والمضاف اليه بالامثلة
18. اكتب تعريف الموصوف والصفه بالامثلة
19. اكتب تعريف اسم النكره بالامثلة
20. اكتب تعريف المعرفه بالامثلة

IV. Write the summary any TWO of the following.

(2×5=10)

21. المرءة الباسلة
22. المَحَطَّةُ
23. كَرَمُ عَائِشَةَ صَدِيقِهِ
24. الدِّيبِكُ وَالنِّسْرُ



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I Semester B.C.A. Degree Examination, March/April - 2024

COMPUTER SCIENCE

Data Structures

(NEP Scheme 2021)

Paper : CA-C3T

Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

Answer all the Sections.

SECTION - A

I. Answer any Four questions. Each question carries 2 marks. (4×2=8)

1. What is non linear Data Structure?
2. What is the complexity of an algorithm?
3. What is Abstract data type? Give an example.
4. Give two differences between Binary Tree and Binary search tree.
5. Mention any two types of graphs.
6. Define sparse matrix.

SECTION - B

II. Answer any Four questions. Each question carries 5 marks. (4×5=20)

7. Write applications of Data structure.
8. How single and two dimensional arrays are represented in memory? Explain with neat diagram.
9. Write an algorithm for Euqueue and Dequeue operations?
10. Evaluate the following infix to prefix. $Q = (P+R)/(T*U)$.
11. Explain Linear search algorithm.
12. Explain AVL tree with its operations.

[P.T.O.]



SECTION - C

III. Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. a) Explain different Asymptotic Notations. (5)
b) Write an algorithm to delete an element in an array. (3)
14. What is recursion? Write an algorithm for Tower of Hanoi Problem with diagram. (8)
15. a) Write an algorithm for Bubble sort. (3)
b) Sort the following elements using bubble sort. (5)
36 48 26 43 15
16. What is stack? Write a program to implement stack operations using an array. (8)
17. a) Define BST. (2)
b) Construct a BST for the given list. (6)
56 48 10 65 72 44 50
18. a) What is Hashing? Explain hash table and hash function. (3)
b) Explain DFS algorithm through stack concept. (5)
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AECCO2.3

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I Semester B.Sc./B.C.A./B.Sc.(FAD)/B.V.A. Degree Examination,
February/March - 2024
GENERIC ENGLISH
Language - I (Imprints - I/Lingua Franca - I)
(NEP Scheme Freshers and Repeaters 2021 Onwards)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

1. Read **all** the instructions carefully and **answer** the questions.
2. Write the question numbers correctly.

SECTION - A
(WORK BOOK)

- I. Read the following Passage and answer the questions set on it : (5×1=5)

Akbar's Praise

Akbar the Great ruled a very vast Kingdom. People would come from every corner of his Kingdom to meet him and sing his praises. They would do this to please Akbar and then ask him for a favour. Very often Akbar would get bored with all the praise and ask the people to shut up. Only when someone gave him genuine praise did he really like it.

One day, a merchant came to meet Akbar. He wanted Akbar to help him sign a trade agreement with the neighbouring Kingdom. He began praising Akbar as usual. When he found that Akbar was not impressed with his praises he said to himself, "Oh, no! He does not seem to be impressed with my praises. If I ask him to help me now, he will not agree. I have to try harder to impress him".

So the merchant bowed in front of Akbar once more and shouted. "O Akbar the Great! You are even greater than the Lord of the Universe!" after saying this he stepped back and eagerly waited for Akbar's response.

Akbar was furious. He was a very religious man and he did not like being called greater than God! But he was always ready for an argument. He believed that such arguments would help his subjects improve their intelligence. So he asked his courtiers, "You heard the man say that I am greater than God! Do you think I am greater than God? If so, why do you think I am greater than God?" Saying this, he sat back and waited to see what kind of response he got from his courtiers.

The courtiers stepped back in fear. They knew that Akbar was a deeply religious man. So this was a tricky question. If they said that Akbar was greater than God he would get angry

[P.T.O.]



with them for disrespecting God. But if they said he was not as great as God, they were afraid that he might get angry with them for hurting his pride.

One by one the courtiers bent their heads down, trying to avoid Akbar's eyes. After waiting for a while Akbar finally turned to Birbal and said, "Birbal, you have an answer for everything. Can you tell me if I am greater than God and why? I want the truth Birbal".

Birbal smiled and remained cool. He stepped forward and said to the King, "You are beyond doubt greater than God O king!"

Akbar was shocked! He shouted, "What? Do you think I am greater than the Lord of the Universe? How can that be? Explain yourself Birbal. Are you trying to impress me with lies"?

Birbal smiled once again and said, "No way, O King! I will not lie to you. You are greater than God because there is one thing you can do that God can't do". Akbar calmed down and said, "Really? Tell me what this thing is that I can do, but God can't?"

Birbal said, "Your Majesty, If you want to banish someone from your Kingdom you can easily do it. But God can't, He is the Lord of the Universe. He has created everything. So everything and everywhere is his kingdom. Where will he banish someone to"?

Akbar burst out laughing and said, "Birbal, O Birbal. You are really good. You have very cleverly told me that I am great and unimportant at the same time. I am glad that you are unlike those other fools who enter my court just to impress me with their false praises."

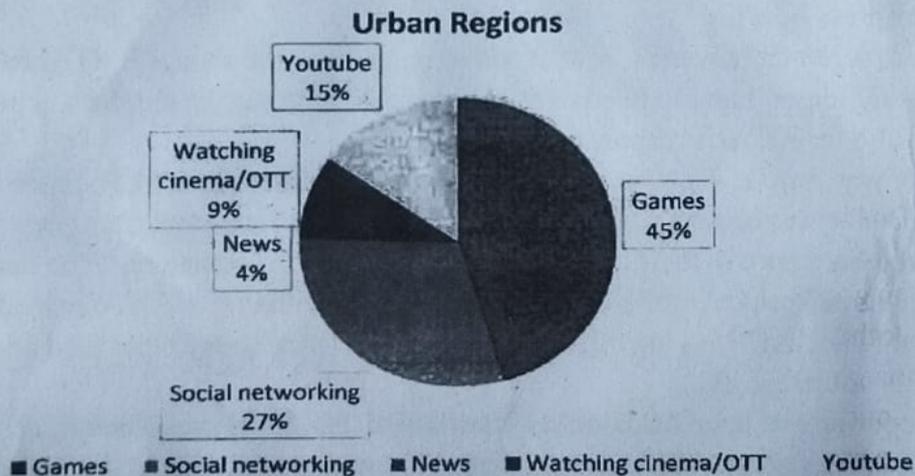
The king asked the courtiers to learn from Birbal and become more intelligent.

Questions :

1. Why would people from far and wide meet Akbar and sing his praises?
2. What help did the merchant want from Akbar?
3. The merchant truly believed that Akbar was greater than God. True/False.
4. What can Akbar do that God can't?
5. Who is greater in your understanding - Akbar or God?

II. Write a paragraph focusing on the given graph using cohesive devices. (1×5=5)

Time Spent on smartphones by College students of Bangalore



**III. Answer the following:**

1. Mention the different types of listening

(OR)

1. Define hearing.
2. _____ is key to all effective communication.
3. Write any one difference between listening and hearing.
4. Mention any one professional activity which employs good listening skills.
5. Suggest one tip for effective listening.

IV. Do as directed :

(5×2=10)

1. Introduce yourself to the principal as the newly elected student Union president.
2. Your friend is the chief Guest at the Annual Sports - Day. Introduce the guest to the gathering.
3. Request the NCC officer to consider you to be the flag - bearer at the Republic Day parade in your college.
4. Seek permission from your parents to allow you to donate stationery to an orphanage.
5. Offer help to your brother whose notes are incomplete due to a fracture.

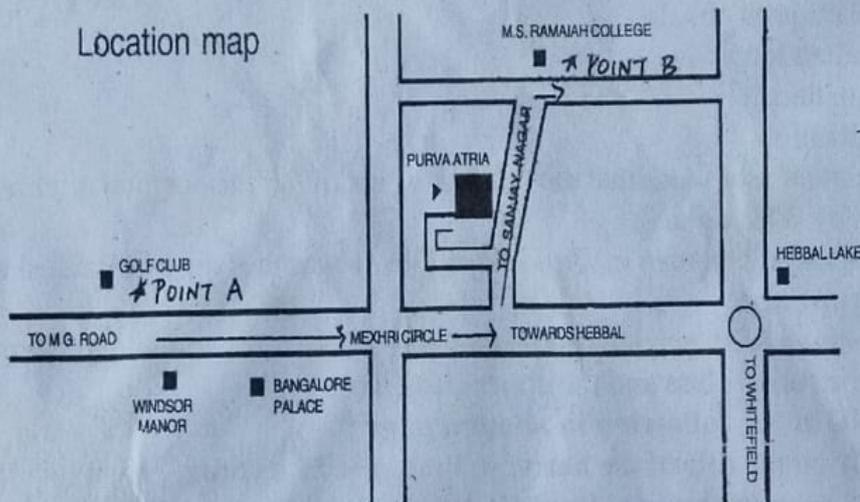
V. 1. Give instructions to your brother on how to order food using an app on the mobile

phone.

(1×3=3)

2. Give directions to your friend to reach Point B from Point A with reference to the given route map.

(1×2=2)

**VI. Do as directed :**

1. **Frame questions as directed :**

(3×1=3)

- a. The student did not bring the text-book to class. (into Wh - question).
- b. Happiness is a state of the mind. (into Yes/No question).
- c. This is Rama's book. (into Wh - question).

2. **Add suitable question tags to the following sentences :**

(2×1=2)

- a. It was a miraculous escape, _____?
- b. Life is not a bed of roses, _____?

[P.T.O.]



3. Fill in the blanks with suitable options given in brackets. (3×1=3)
- The committee members _____ (have/has) cast their vote.
 - She _____ (want/wants) a cup of coffee.
 - Road safety _____ (is/are) about following traffic discipline while on road.
4. Use the correct form of the word given in brackets and fill in the blanks. (2×1=2)
- Perfection is an ideal state. We live in an _____ world, so people and governments make mistakes all the time. (Change into an adjective).
 - Dinosaurs are an extinct species. Likewise, the danger of _____ of many other species is a cause of concern. (change into a noun).

SECTION - B
(Course Book)

VII. Answer any FIVE of the following in a word, phrase or a sentence each. (5×1=5)

- Casting a vote anonymously, of one's own free will, is an example of _____ according to Sundar Sarukkai.
 - free expression.
 - fear or threat.
 - dictatorship.
- What does the poet ultimately aspire for in the poem *Democracy*?
- The next wave of economic dislocation as mentioned by Obama in his speech, will come from the relentless pace of _____ that makes many good, middle - class jobs obsolete.
 - Liberalization.
 - Automation.
 - Mobilization.
- Which document ascertains that the unknown citizen left the hospital after being cured in the poem by WH Auden?
- The Hindi Speaking woman in *The Golden Dream* was the cause of Ramesha's strange behavior. True/False.
- From a German War primer* addresses the injustice of the social hierarchy that privileges the ruling class and the upper class. True/False.

VIII. Answer any ONE of the following in about a page : (1×5=5)

- Write briefly on the role of the hearer in Free speech according to Sundar Sarukkai.
- What causes were attributed to Ramesha's strange behavior in the *The Golden Dream*?
- Explain the portrayal of war and its futility in Bertolt Brecht's *From a German War Primer*.

IX. Answer any ONE of the following in about two pages : (1×10=10)

- What are Langston Hughes' reflections on the injustice meted out to the coloured people in America?
- Explain the threats to Democracy as described by Obama in his farewell speech.
- The unknown citizen is often a victim of an indifferent and mechanical bureaucratic system according to the poet W H Auden. Elaborate.

Handwritten scribbles and marks at the bottom right of the page.



4. "பெருமை உடையதன் அருமை பிழியார்"
5. "நாணல் வாழ்க்கை பசித்தலின் சவ்வாது"
6. "தென்னை மரங்களும் பனை மரங்களும் இந்நாட்டில் ஏராளம்"
7. "நாற்பத்தொரு தேசங்களிலிருந்து ஆயிரத்துக்கு மேற்பட்ட பிரதிநிதிகள் டென்மார்க்கில் கூடினர்"
8. "இந்த மனிதருடைய பேச்சைக் கேட்டவர்கள் யாருமேயில்லை. ஆனால் அதற்காக அவர் பேச்சை நிறுத்தவில்லை"

SECTION - B

III. எவையேனும் ஐந்திற்குச் சுருக்கமான விடை தருக.

(5×4=20)

1. மொழியிறுதி எழுத்துகளை எடுத்துக்காட்டுடன் எழுதுக.
2. ஐகார்க்குறுக்கம், ஒளகார்க்குறுக்கம் என்றல் என்ன? அவற்றினை எடுத்துக்காட்டுடன் விளக்குக.
3. உயிர்மெய் எழுத்து குறித்து எழுதுக.
4. கூட்டு எழுத்து என்றால் என்ன? அவற்றின் வகைகளை எடுத்துக்காட்டுடன் விளக்குக.
5. வெள்ளி வீதியார் சிறுவெள்ளாங்குருகை அழைத்துக் கூறுவன யாவை?
6. திருமாளவளவனது ஆற்றல் பற்றி விளக்கி எழுதுக.
7. கப்பல் ஞாபகங்கள் பற்றி எழுதுக.
8. அமெரிக்கா பற்றி எழுதுக.

SECTION - C

IV. எவையேனும் நான்கு வினாக்களுக்கு விடை தருக.

(4×5=20)

1. பாலைத்திணை பாடலின் கருத்துகளை தொகுத்து எழுதுக.
2. அறிவுப்பத்தில் கூறப்பட்ட செய்திகள் எவையேனும் ஐந்து எழுதுக.
3. ஏற்றுமதி இறக்குமதி நிகழும் பண்டசாலை முற்றம் பற்றி எழுதுக.
4. சிவப்பு இந்தியர்கள் - எப்படி பெயர் வந்தது என்பதை விளக்குக.
5. பின்லாந்தில் பயண நிகழ்வுகள் பற்றி எழுதுக.
6. ஜெர்மனியில் ஒரு தமிழ்ப்புலவர் குறித்து எழுதுக.



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I Semester B.C.A./B.H.M. Degree Examination, February/March - 2024

LANGUAGE SANSKRIT

Sankshepa Ramayanam Of Valmiki Grammar And Comprehension

(NEP Scheme Freshers and Repeaters 2021-2022 Onwards)

Paper : I

Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates: 1) Answer in Sanskrit/Kannada/English

2) Q.No-I,V and VI Should be answered in Sanskrit only.

I. समीचीनम् उत्तरं लिखत।

(10×1=10)

ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ ಬರೆಯಿರಿ.

Select and write the Correct answer.

1) दशरथः कस्यै वरम् अदात्?

अ) कौसल्यायै

आ) सुमित्र्यौ

इ) कैकेय्यै

ई) सीतायै

2) श्रीरामस्य अनुजः कः?

अ) दशरथः

आ) रावणः

इ) लक्ष्मणः

ई) गृहः

3) कामरूपिणी राक्षसी का?

अ) ताटका

आ) मन्धरा

इ) मण्डोदरी

ई) शूर्पणखा

4) आदिकविः कः?

अ) वाल्मीकिः

आ) व्यासः

इ) भासः

ई) कालिदासः

5) श्रीरामः केन सख्यं चकारं?

अ) वालिना

आ) सुग्रीवेण

इ) जाम्बवता

ई) हनुमता

6) लङ्काया अधिपतिः कः?

अ) रावणः

आ) मारीचः

इ) रामः

ई) दशरथः

7) गाम्भीर्ये श्रीरामः कः इव अस्ति?

अ) पर्वतः

आ) सुमुद्रः

इ) वृक्ष

ई) आकाशः

8) रावणः कस्य साहाय्यम् अयाचत?

अ) विभीषणस्य

आ) लक्ष्मणस्य

इ) मारीचस्य

ई) रामस्य

9) शूर्पणखा केन विरूपिता?

अ) रामेण

आ) लक्ष्मणेन

इ) भरतेन

ई) शत्रुघ्णेन

10) विराधः कः?

अ) विव्दान्

आ) मुखः

इ) राक्षसः

ई) राजा

[P.T.O.]

**II. द्वयोः प्रबन्धरूपेण उत्तरं लिखत।**

ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಪ್ರಬಂಧಾತ್ಮಕ ಉತ್ತರವನ್ನು ಬರೆಯಿರಿ.

Write an essay on any **Two** of the following.

- 1) श्रीरामस्य गुणान् वर्णयत।
ಶ್ರೀರಾಮನ ಗುಣಗಳನ್ನು ವರ್ಣಿಸಿರಿ.
Describe the qualities of Srirama.
- 2) किष्किन्धाकाण्डस्य कथां निरूपयत।
ಕಿಷ್ಕಿಂಧಾಕಾಂಡದ ಕಥೆಯನ್ನು ಬರೆಯಿರಿ.
Write the story of Krishkindhakanda.
- 3) रामकथां संक्षेपेण निरूपयत।
ರಾಮಕಥೆಯನ್ನು ಸಂಕ್ಷೇಪವಾಗಿ ಬರೆಯಿರಿ.
Write briefly the story of Rama.

III. त्रयाणां श्लोकानाम् अनुवादं कृत्वा विवरणं लिखत।

(3×3=9)

ಯಾವುದಾದರೂ ಮೂರು ಶ್ಲೋಕಗಳನ್ನು ಅನುವಾದಿಸಿ ವಿವರಿಸಿ.

Translate and explain any **Three** shlokas.

- 1) महोरस्को महेष्वासो मूढजत्रुररिन्दमः
आजानुबाहुः सुशिराः सुल्लाटः सुविक्रमः
- 2) रक्षिता स्वस्थ धर्मस्य स्वजनस्य च रक्षिता।
वेदवेदाङ्ग तत्वज्ञः धनुर्वेद च निष्ठितः॥
- 3) जनकस्य कुले जाता देवमायेव निर्मिता।
सर्वलक्षण, सम्पन्ना नाशीणामुत्तमा वधुः॥
- 4) स जगाम वनं वीरः प्रतिज्ञामनुपालयन्।
पितृर्वचन निर्देशात् कैकेय्याः प्रियकारणात्॥
- 5) चारित्रेण च को युक्तः सर्वभूतेषु को रतः।
विद्वान् कः कः समर्थस्य कश्चैकप्रियदर्शनः॥

IV. सन्दर्भं विवृणुत वाक्यव्दयम्।

(2×3=6)

ಯಾವುದಾದರೂ ಎರಡು ವಾಕ್ಯಗಳನ್ನು ಸಂದರ್ಭ ಸಹಿತ ವಿವರಿಸಿ.

Explain any two with reference to context.

- 1) धर्मज्ञश्च कृतज्ञश्च सत्यवाक्यो दृढव्रतः।
- 2) विवासनं च रामस्य भरतस्यभिषेचनम्।
- 3) स्नेहाव्दिनयसम्पन्नः सुमित्रानन्दवर्धनः।
- 4) गुहमासाद्य धर्मात्मा निषदाधिपतिं प्रियम्।



V. संस्कृत भाषया उत्तरं लिखत।

ಸಂಸ್ಕೃತ ಭಾಷೆಯಲ್ಲಿ ಉತ್ತರಿಸಿ.

Answer in Sanskrit.

अ) लिङ्ग-विभक्ति-वचनानि लिखत।(पञ्चानामेव)

(5×1=5)

- | | |
|------------|-------------|
| 1) वनम् | 2) मित्रेषु |
| 3) हरीशस्य | 4) एषा |
| 5) नदी | 6) तुभ्यम् |
| 7) रमायै | 8) गुरुणा |

आ) लकार-पुरुष-वचनानि लिखत।(चतुर्णामेव)

(4×1=4)

- | | |
|----------------|------------|
| 1) लिखन्तु | 2) पश्यामि |
| 3) अखादत् | 4) भवेत् |
| 5) हसानि | 6) वर्धसे |
| 7) धाविष्यन्ति | 8) वद |

VI. परिच्छेदं पठित्वा।

(5×2=10)

बहुकालपूर्व एकः विशालः वटवृक्षः आसीत्। तस्मिन् वृक्षे बहवः पक्षिणः नीडं कृत्वा निवसन्ति स्म। एकस्मिन् दिने एक लुब्धकः एकस्य वृक्षस्य समीपम् आगतवान्। तत्र निवसतः बहून् पक्षिणः दृष्ट्वा वृक्षस्य अधः जालं स्थापयित्वा तान् आक्रष्टुं काश्चन तण्डुलकाणिकाः प्रक्षिप्तवान्। पक्षिणः तण्डुलकाणिकाः दृष्ट्वा ताः खादितुं अवतरन्ति स्म।

प्रश्नाः-

- 1) वटवृक्षः कीदृश्यः आसीत्?
- 2) पक्षिणः कुत्र निवसन्ति स्म?
- 3) वृक्षस्य समीपे कः आगतवान्?
- 4) पक्षिणः आक्रष्टुं किं प्रसारितवान्?
- 5) पक्षिणः किं खादितुम् अवतरन्ति स्म?



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I Semester B.C.A./B.Sc.(FAD) B.S.I.D Degree Examination,

February/March - 2024

LANGUAGE HINDI

"Nibhand Prabha"-Alekhyan Tippaan Prativedhan And Sanksheppan
(NEP Semester Scheme (Freshers and Repeaters) 2022 and Onwards)

Paper - I

Time : 2½ Hours

Maximum Marks : 60

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

- 1) आजकल घर में एवं चिट्ठियों में किस भाषा का आश्रय लेते हैं?
- 2) कौन-सी जिन्दगी सबसे बड़ी जिन्दगी होती है?
- 3) बुद्धगया मंदिर में जापान से कौन आया था?
- 4) काम की बातों से किसका पता नहीं चलता?
- 5) आयोध्या के राजपाठ को संभलनेवाला कौन था?
- 6) जीवन के आदर्शों के लिए हमें कैसे काम करना पड़ेगा?
- 7) संसार में हाहाकार मचाने का मूल कारण क्या है?
- 8) किस जगह पर साल में दो-चार इंच भी वर्षा नहीं होती?
- 9) हिंसा का दूसरा रूप या नाम क्या है?
- 10) मित्रता निबंध के निबंधकार कौन हैं?

II. निम्नलिखित अवतरणों में से किन्हीं दो की संदर्भ सहित व्याख्या कीजिए। (2×7=14)

- 1) "इसलिए कि अंग्रेजों से मिलने जाते हैं, तो जूते बाहर नहीं उतारने पड़ते। जो लोग अचकल और टोपी पहनकर जाते हैं, उन्हें जूते उतार देने पड़ते हैं"
- 2) "अपने क्रोध को और दूसरों के क्रोध को अक्रोध द्वारा पराजित करो। यदि ऐसा न किया तो जिसके लिए मनुष्य मनुष्य हुआ है वह व्यर्थ हो जाएगा।"
- 3) "किसी भी क्रिया के पीछे जो भावना निहित होती है, उसका बड़ा प्रभाव हुआ करता है, और परिणाम भी यद्यपि देखने में क्रिया का रूप एक ही क्यों न हो।"

[P.T.O.]



- III. "हमें हर एक पश्चिमी चीजों को आँखें बंद करके चलने की प्रवृत्ति हमारी मानसिक पराधीनता का कारण है।" इस तथ्य को "मानसिक पराधीनता" निबंध द्वारा स्पष्ट कीजिए। (1×16=16)

(अथवा)

समस्या-निबंध का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए।

- IV. किसी एक विषय पर टिप्पणी लिखिए। (1×5=05)

- 1) मेरे राम का मुकुट भीग रहा है।
- 2) मित्रता।

- V. किन्हीं दो प्रश्नों के उत्तर लिखिए। (2×4=08)

- 1) टिप्पण की परिभाषा बताते हुए उसके प्रकारों को समझाइए।
- 2) आलेखन किसे कहते हैं? उसके प्रकारों को समझाइए।
- 3) अपने कालेज में मनाये गये "स्वतंत्रता दिवस" के ऊपर एक प्रतिवेदन तैयार कीजिए।

- VI. निम्नलिखित गद्यांश का उचित शीर्षक देते हुए एक तर्हार्ई शब्दों में संक्षिप्तीकरण कीजिए। (1×7=07)

सिनेमा मनोरंजन का एक प्रमुख साधन है। साहित्य और सिनेमा की बढ़ती घनिष्ठता को देखते हुए यह कहा जा सकता है कि सिनेमा का आधारबिंदु साहित्य है। सिनेमा ने साहित्य कारों को अपनी ओर आकर्षित किया है। सिनेमा एक व्यावसायिक पक्ष के साथ काम करता है उसका पहला काम ही है दर्शकों को जुटाना, जबकी साहित्य परिवेश के विषय की गंभीरता को लेकर चलता है। उसमें आर्थिक नहीं, सामाजिक उत्थान की अधिक चिंता है। साहित्यिक कृतियों पर बनी फिल्में चाहे सफल हुई हों या नहीं लेकिन एक नई दृष्टि जरूर पैदा की है। सिनेमा ने साहित्य, संगीत और ललित कला के अनेक मनिषियों को अपनी ओर आकर्षित किया है। वह इसलिए की साहित्य विश्व की प्राचीनतम कला है तो सिनेमा नवीनतम तकनीकी कला है। सिनेमा के आधुनिक जीवन पध्दति को विविध रूप से प्रभावित किया है। साहित्य जनरुचि का पथ-प्रदर्शक होता है, सिनेमा जनरुचि के पीछे चलता है।



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I Semester B.C.A. Degree Examination, February/March - 2024

COMPUTER SCIENCE**Problem Solving Techniques**

(NEP Scheme -2021)

PAPER : CA-C2T

Time : 2½ Hours

Maximum Marks :60

*Instructions to Candidates:***Answer all Parts.****PART-A**Answer any **FOUR** questions. Each question carries 2 marks.

(4×2=8)

1. Define an Algorithm. Mention two qualities of a good algorithm.
2. Define
 - a) Keyword
 - b) Identifier.
3. What is pointer? Give an Example.
4. What is Pseudorandom Numbers? Give one application.
5. What is TWO way merging? Give an example.
6. What is pattern matching? Give an example.

PART-BAnswer any **Four** questions. Each question carries 5 marks

(4×5=20)

7. Explain the different Steps in problem solving.
8. Explain switch statement with syntax and example.
9. Write a c program to find the largest of 3 nos.
10. Write an algorithm to find the smallest divisor of an integer.
11. Write an algorithm to Reverse the Elements of an Array.
12. Write a C program to search an element using Binary search.

[P.T.O.]



PART - C

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. Explain Asymptotic Notations with an example.
 14. Explain control statements available in 'C'.
 15. What are command line arguments? Write a C program to demonstrate.
 16. What is factorization ? Write an algorithm to find GCD of two numbers a and b.
 17. Explain selection sort with an example.
 18. Write shell sort algorithm to sort the given set of elements. Trace the shell sort algorithm for the following elements 23,12,67,44,11,99,55
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I Semester B.C.A. Degree Examination, February/March - 2024

COMPUTER SCIENCE

Discrete Structures (Theory)

(NEP 2021 Scheme)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer any Four questions form each part.

PART - A

Answer any Four questions. Each question carries 2 marks.

(4×2=8)

- If $A = \{1,2,3\}$ and $B = \{2,3,4,5\}$ then find
 - $A \cup B$
 - $B - A$
- Define an equivalence relation .
- Construct a truth table for the proposition $\sim p \rightarrow q$
- Define a scalar matrix with an example.
- Define a regular graph with an example.
- Define a bipartite graph with an example.

PART - B

Answer any Four questions. Each question carries 5 marks.

(4×5=20)

- Show that the proposition $(p \rightarrow q) \wedge (q \rightarrow r) \rightarrow (p \rightarrow r)$ is a tautology.
- Prove by mathematical Induction that $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$
- Explain principles of counting

[P.T.O.]



10. Find the inverse of the matrix

$$\begin{pmatrix} 1 & 2 & -1 \\ -1 & 1 & 2 \\ 2 & -1 & 1 \end{pmatrix}$$

11. Find the rank of the matrix

$$\begin{pmatrix} 1 & 1 & 1 & 6 \\ 1 & 2 & 3 & 14 \\ 1 & 4 & 9 & 30 \end{pmatrix}$$

12. Define the following terms.

- i) Loop
- ii) Walk
- iii) Trial
- iv) Path
- v) Circuit

PART - C

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. a) If $A = \{1,2,3\}$ $B = \{1,-1\}$ $C = \{0,4\}$ then verify that $A - (B \cup C) = (A - B) \cap (A - C)$
- b) In a group of 80 People, 42 like coffee, 60 like tea and each person like atleast one of the two drinks. find how many people like both coffee and tea?
14. a) State and Prove binomial theorem for any positive integer, m .
- b) If $f: R \rightarrow R$ is defined by $f(x) = 4x+5$ then show that f : is invertible.
15. a) Write converse, inverse and contrapositive of the conditional statement "If S is an equilateral triangle then S is an Isosceles triangle".
- b) In how many ways the letters of the word MISSISSIPPI be arranged so that 4's are not together.



16. a) If $A = \begin{bmatrix} 5 \\ 2 \\ -3 \end{bmatrix}$ $B = [-1 \ 4 \ 6]$ show that $(AB)' = B'A'$

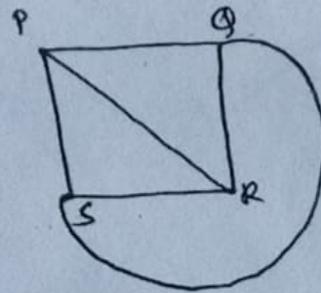
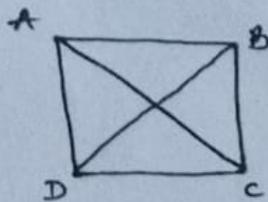
b) Solve the system of equations

$$x + y + z = 7$$

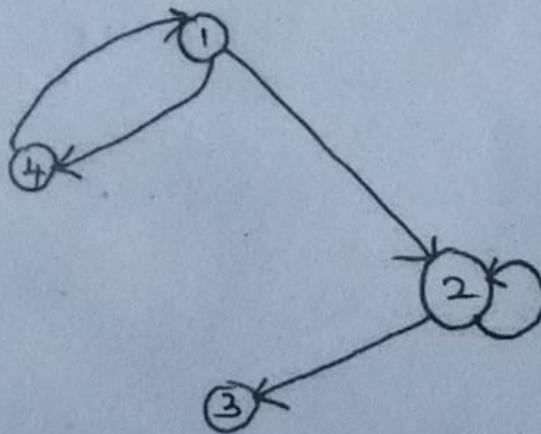
$$2x + 3y + 2z = 17$$

$$4x + 9y + z = 37.$$

17. a) Examine whether the following graphs are isomorphic or not.

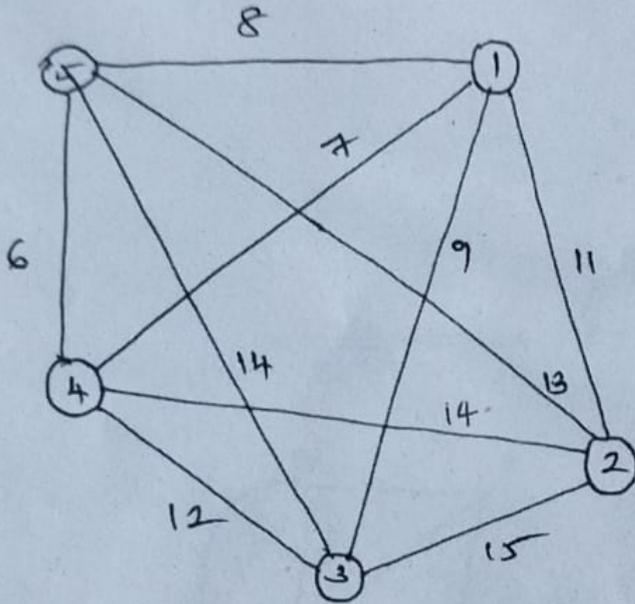


b) Find the relation represented by the digraph given below. Write down its matrix.





18. Find the minimum weight spanning tree by prim's algorithm





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I Semester B.C.A. Degree Examination, February/March - 2024

COMPUTER SCIENCE**Problem Solving Techniques****(NEP Scheme -2021)****PAPER : CA-C2T****Time : 2½ Hours****Maximum Marks :60***Instructions to Candidates:***Answer all Parts.****PART - A****Answer any FOUR questions. Each question carries 2 marks.****(4×2=8)**

1. Define an Algorithm. Mention two qualities of a good algorithm.
2. Define
 - a) Keyword
 - b) Identifier.
3. What is pointer? Give an Example.
4. What is Pseudorandom Numbers? Give one application.
5. What is TWO way merging? Give an example.
6. What is pattern matching? Give an example.

PART - B**Answer any Four questions. Each question carries 5 marks****(4×5=20)**

7. Explain the different Steps in problem solving.
8. Explain switch statement with syntax and example.
9. Write a c program to find the largest of 3 nos.
10. Write an algorithm to find the smallest divisor of an integer.
11. Write an algorithm to Reverse the Elements of an Array.
12. Write a C program to search an element using Binary search.

[P.T.O.]



PART - C

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. Explain Asymptotic Notations with an example.
 14. Explain control statements available in 'C'.
 15. What are command line arguments? Write a C program to demonstrate.
 16. What is factorization ? Write an algorithm to find GCD of two numbers a and b.
 17. Explain selection sort with an example.
 18. Write shell sort algorithm to sort the given set of elements. Trace the shell sort algorithm for the following elements 23,12,67,44,11,99,55
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I Semester B.Com./B.B.A. and Other Courses Degree Examination,

February/March - 2024

GENERIC ENGLISH

Language English - I(Envision - I)

(NEP Scheme Freshers and Repeaters)

Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

- 1) Read all the instructions carefully and write answers.
- 2) Write the question numbers correctly.

SECTION - A

(Work Book-40)

I. Read the following passage and answer the questions set on it: (5×1=5)

If we examine the lives of great men-scientists, philosophers or sages-we find that the key to their success is in practice. They dedicate themselves to practising their calling with such sincerity and devotion that success is guaranteed in whatever they take up. Even in daily life, practice is essential to be able to achieve anything. For example, a student must practice his lessons in order to pass the exams. In fact, it is through practice that we have mastered the ability to walk and write, so much so that we do not feel the strain any more. Repeated action creates a habit. We can cultivate good habits through repeated good acts and give up bad habits by using our will-power. Habits influence our mind and nervous systems in such a way that they become a part of our nature, our character. If you want to know a man, study his habits. Once we have formed undesirable habits, then it is very difficult get over them or change them. Yet, all is not lost. Difficult activities such as swimming, cycling, and so on become easy after regular practice. Similarly, other acts and habits can be modified with practice, patience and perseverance. Many are not aware of the tremendous power of practice.

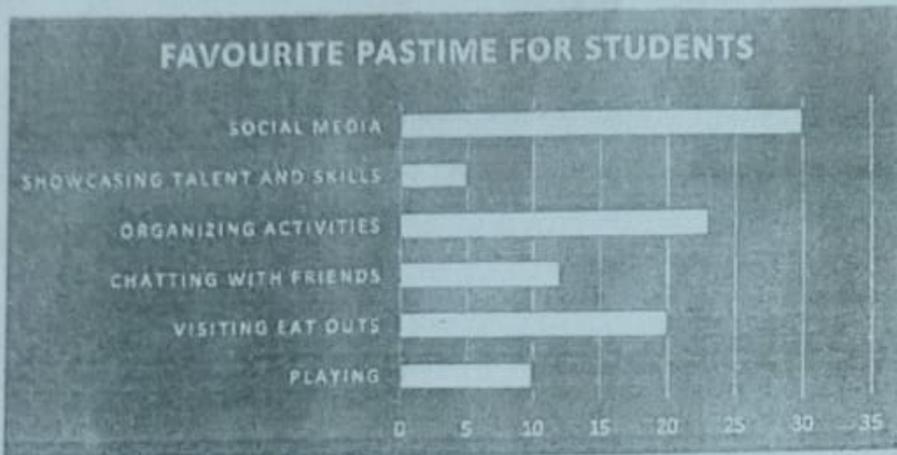
(From : Effective Life Management)

1. What is the key to the success of great men?
2. How does a student benefit from practice?
3. Which are the ways to cultivate good habits?
4. Mention the three important Ps required to modify habits, as mentioned in the passage.
5. Suggest a suitable title for the passage.

[P.T.O.]



- II. The following bar graph shows the percentage of favourite pastime of students. Carefully read the data and answer the questions set on it. (5)



- The Graph comprises of _____ parts.
 - 6
 - 4
 - 5
- Which is the most popular pastime among the students?
- _____ is the third most loved activity of students.
- According to this data, students are not so interested in showcasing their talent. True/False.
- The difference in percentage of organizing activities and visiting eat outs is
 - Less
 - More
 - None

III. Answer the following questions on Listening Skills: (3×1=3)

- What is Listening Skill?
- Mention any two types of Listening.
- A classroom lecture is an example for Content Listening. True/False.

IV. Do as directed: (5×2=10)

- Introduce your father to your English teacher.
- Request your principal to offer installment facility for fee payment.
- Congratulate your friend on getting selected to a reality show.

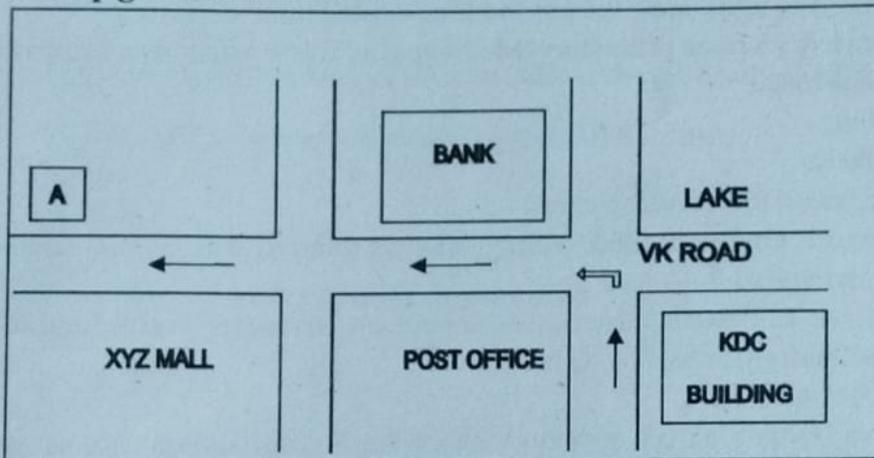


4. Enquire the Manager at the bank about how to open an account?
 5. Seek permission from your class teacher to participate in a quiz competition.
- V. A) Give instructions to your friend to fill the college admission application form. (5)

(OR)

Give instructions to your father on how to withdraw cash from the ATM?

- B) Give directions to a passer - by to reach point A from KDC Building. Look at the map given for reference. (2)



VI. Do as directed:

1. Frame questions so as to get the underlined word/s as the answer: (3)
 - a) Hema is writing a poem.
 - b) Sandhya was the captain of the college cricket team last year.
 - c) Amjad enjoys listening to music in the evening.
2. Add suitable question tags to the following sentences: (2)
 - a) Chandana is not coming to fest. _____?
 - b) Jay Chand would be coming next month. _____?
3. Fill in the blanks with suitable options given in the brackets: (3)
 - a) Aishwarya _____ (love/loves) attending classes.
 - b) Vinutha and Stallin _____ (has/have) scored distinction in the University exams.
 - c) You _____ (are/is) looking handsome.

[P.T.O.]



4. Use the correct form of the word given in the brackets and fill in the blanks:

(2)

- a) Varun treated the pet with _____ (kind).
b) I thank you _____ (sincere) for your guidance.

SECTION - B
(Course Book-20)

VII. Answer any Five of the following in a word or a phrase or a sentence each: (5×1=5)

1. Why was Ashoke against appointing Santoshi as a house maid in 'Acceptance'?
2. In sonnet 106, what does 'the chronicle of wasted time' describe?
3. The third letter written in the story 'Marriage is a Private Affair' was written by _____
 - a) Nnaemeka
 - b) Nene
 - c) Okeke(Choose the correct option)
4. In the poem 'On Buying and Selling', who are referred to as 'barren - handed people' in the marketplace?
5. Which are the two Universities where experiments were conducted using nano-technology, as told by Kalam?
6. Mention any two career opportunities in the field of Computers, as explained in 'Freedom and Choice'?

VIII. Answer any ONE of the following in about a page or 100 words: (1×5=5)

1. Briefly narrate Santoshi's background in 'Acceptance'?
2. What were the words of advice given by the speaker to the merchants at the marketplace in Khalil Gibran's poem?
3. How does 'Freedom and Choice' throw light on various career options available for today's generation?

IX. Answer any ONE of the following in about two pages or 200 words: (1×10=10)

1. 'Marriage is a Private Affair' can be understood through the three letters written by the characters in it. Explain.
 2. William Wordsworth says, "...Have eyes to wonder, but lack tongues to praise". Elaborate this line with reference to Sonnet 106.
 3. How does Abdul Kalam highlight the importance of Biodiesel Conference?
-



4. "பெருமை உடையதன் அருமை பிழியார்"
5. "நாணல் வாழ்க்கை பசித்தலின் சவ்வாது"
6. "தென்னை மரங்களும் பனை மரங்களும் இந்நாட்டில் ஏராளம்"
7. "நாற்பத்தொரு தேசங்களிலிருந்து ஆயிரத்துக்கு மேற்பட்ட பிரதிநிதிகள் டென்மார்க்கில் கூடினர்"
8. "இந்த மனிதருடைய பேச்சைக் கேட்டவர்கள் யாருமேயில்லை. ஆனால் அதற்காக அவர் பேச்சை நிறுத்தவில்லை"

SECTION - B

III. எவையேனும் ஐந்திற்குச் சுருக்கமான விடை தருக. (5×4=20)

1. மொழியிறுதி எழுத்துகளை எடுத்துக்காட்டுடன் எழுதுக.
2. ஐகார்க்குறுக்கம், ஓளகார்க்குறுக்கம் என்றல் என்ன? அவற்றினை எடுத்துக்காட்டுடன் விளக்குக.
3. உயிர்மெய் எழுத்து குறித்து எழுதுக.
4. சுட்டு எழுத்து என்றால் என்ன? அவற்றின் வகைகளை எடுத்துக்காட்டுடன் விளக்குக.
5. வெள்ளி வீதியார் சிறுவெள்ளாங்குருகை அழைத்துக் கூறுவன யாவை?
6. திருமாளவளவனது ஆற்றல் பற்றி விளக்கி எழுதுக.
7. கப்பல் ஞாபகங்கள் பற்றி எழுதுக.
8. அமெரிக்கா பற்றி எழுதுக.

SECTION - C

IV. எவையேனும் நான்கு வினாக்களுக்கு விடை தருக. (4×5=20)

1. பாலைத்திணை பாடலின் கருத்துகளை தொகுத்து எழுதுக.
2. அறிவுப்பத்தில் கூறப்பட்ட செய்திகள் எவையேனும் ஐந்து எழுதுக.
3. ஏற்றுமதி இறக்குமதி நிகழும் பண்டசாலை முற்றம் பற்றி எழுதுக.
4. சிவப்பு இந்தியர்கள் - எப்படி பெயர் வந்தது என்பதை விளக்குக.
5. பின்லாந்தில் பயண நிகழ்வுகள் பற்றி எழுதுக.
6. ஜெர்மனியில் ஒரு தமிழ்ப்புலவர் குறித்து எழுதுக.



III. ಈ ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಎರಡು ಪುಟಗಳಷ್ಟು ಉತ್ತರ ಬರೆಯಿರಿ. (2×10=20)

1. ಹಂಪಿಯ ವಿರೂಪಾಕ್ಷ ಅರ್ಚಕರಿಗೂ ಮತ್ತು ಎಚ್ಚಮನಾಯಕರಿಗೂ ನಡುವೆ ನಡೆದ ಸಂಭಾಷಣೆಯ ಸ್ವಾರಸ್ಯವನ್ನು ಬರೆಯಿರಿ.
2. ಆಧುನಿಕತೆ ಕುರಿತಂತೆ ನಾಗರಾಜ ವಸ್ತಾರೆ ಅವರ ವಿಚಾರಗಳನ್ನು ಚರ್ಚಿಸಿ.
3. ಹುಡುಗಿ ಹೂವಿನ ಗಿಡ ಆದ ಬಗೆ ಹಾಗೂ ಪರಿಣಾಮಗಳನ್ನು ವಿವರಿಸಿ.
4. ಬರಹಗಾರನಾಗಲು ಬೇಕಾದ ಸತತ ಪ್ರಯತ್ನಗಳಾವುವು?

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

1. ಮಾತೃಭಾಷೆಯ ಕುರಿತು ಗಾಂಧೀಜಿಯವರ ಅಭಿಪ್ರಾಯಗಳಾವುವು?
 2. ಅಬ್ದುಲ್ ಕಲಾಂರವರ ಬಾಲ್ಯದ ಯಾವ ಘಟನೆಯು ಅವರ ಎದೆಯನ್ನು ಒಡೆಯುವಂತೆ ಮಾಡಿತ್ತೆಂಬುದನ್ನು ತಿಳಿಸಿ.
 3. ನೀವು ಕೈಗೊಂಡ ಪ್ರವಾಸದ ಅನುಭವಗಳನ್ನು ಬರೆಯಿರಿ.
 4. ಕೈಗಾರಿಕೀಕರಣವು ನಮ್ಮ ಅರ್ಥವ್ಯವಸ್ಥೆಯನ್ನು ಹೇಗೆ ಬದಲಿಸಿತು. ವಿವರಿಸಿ.
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I Semester B.B.A./B.B.A.M Degree Examination, February/March - 2024

LANGUAGE SANSKRIT

Kumarasambhavam V Canto Grammar And Comprehension

(NEP Scheme (F+R) 2021-22 and Onwards)

Paper : I

Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates: 1) Answer in Sanskrit/Kannada/English.

2) Q.No-I,V and VI Should be answered in Sanskrit only.

I. समीचीनम् उत्तरं चित्वा लिखत।

(10×1=10)

ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ ಬರೆಯಿರಿ.

Choose and write the Correct answer.

1) कालिदासस्य कृतिः का?

अ) कुमारसम्भवम् आ) रामायणम् इ) कादम्बरी ई) भागवतम्

2) स्थाण्डिले का अशेत?

अ) मेना आ) पार्वती इ) सीता ई) राधा

3) अमृत्यं किम्?

अ) विषयसुखम् आ) ज्ञानखम् इ) ऐश्वर्यसुखम् ई) इन्द्रियसुखम्

4) प्रथमस्य वेधसः कुले का प्रसुता?

अ) मेना आ) राधा इ) रमा ई) पार्वती

5) किं सशैवलासङ्गमपि प्रकाशते?

अ) पङ्कजम् आ) फलम् इ) पर्णम् ई) वस्त्रम्

6) यः महतोऽपभाषते सः किं भवति?

अ) पुण्यभाक् आ) पापभाक् इ) धनभाक् ई) मित्रभाक्

7) कालिदासेन रचितानि खण्डकाव्यानि कति?

अ) पञ्चः आ) त्रीणि इ) द्वे ई) चत्वारि

[P.T.O.]



- 8) कुमारसम्भवस्यमूलं किम्?
अ) ब्रम्हपुराणम् आ) विष्णुपुराणम् इ) अग्निपुराणम् ई) शिवपुराणम्
- 9) वृषराजकेतनः कः?
अ) शिवः आ) कृष्णः इ) इन्द्रः ई) वरुणः
- 10) मेनायाः पुत्री का?
अ) रमा आ) पार्वती इ) मही ई) राची

II. द्वयोः प्रश्नयोः प्रबन्धरूपेण उत्तरं लिखत।

(2×8=16)

ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

Write an essay on any **Two** of the following.

- 1) कालिदासस्य देश-काल-कृतीनां विषये लिखते।

ಕಾಳಿದಾಸನ ದೇಶ, ಕಾಲ, ಹಾಗೂ ಕೃತಿಗಳ ಬಗ್ಗೆ ಬರೆಯಿರಿ.

Write about place, date and works of kalidasa.

- 2) पार्वत्याः तपश्चर्या वर्णयते।

ಪಾರ್ವತಿಯ ತಪಸ್ಸನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.

Describe the penance of parvathi

- 3) जाटिलेन कृतां शिवनिन्दां वर्णयत।

ಬ್ರಹ್ಮಚಾರಿಯಿಂದ ಮಾಡಲ್ಪಟ್ಟ ಶಿವನಿಂದೆಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.

Brahmachari's blame on shiva.

III. त्रयाणां श्लोकानाम् अनुवादं कृत्वा विवृणुत।

(3×3=9)

- 1) तथा समक्षं दहता ममोभवं

पिनाकिना भ्रम्रमनोरथा सती।

निन्दिन्द रुपं हृद्येन पार्वती

प्रियेषु सौभाग्यफला हि चारुता॥

- 2) यथा प्रसिध्दैर्मधुरं शिरोरुहैः

जटाभिरप्येवमभूत्तदाननम्।

न षट्पदश्रेणिभिरेव पङ्कजं

सशैवलासङ्गमपि प्रकाशते॥



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- 3) पुनर्ग्रहीतुं नियमस्थया तया
व्ययेऽपि निक्षेप इवार्पितं व्ययम्।
लतासु तन्वीषु विलासचेष्टितं
विलोलहृष्टं हरिणाङ्गनासु च॥
- 4) कृताभिषेकां हुतजातवेदंसं
त्वगुत्तरासङ्गवतीमधीतिनीम्।
दिहक्षवस्तामृषयोऽभ्युपागमन्
न धर्मवृद्धेषु वयः समीक्षते॥
- 5) स्वयं विंशीर्णद्रुमपर्णवृत्तिना
परा हि काष्ठा तपसस्तया पुनः।
तदप्यपाकीर्णमतः प्रियंविदां
वदन्त्यपर्णेति च तां पुरावदः॥

IV. द्वयोः वाक्ययोः सन्दर्भं विवृणुत।

(2×3=6)

ಎರಡು ವಾಕ್ಯಗಳನ್ನು ಸಂದರ್ಭಸಹಿತ ವಿವರಿಸಿ.

Explain with reference to context any **Two** of the following:

- 1) पयश्च निम्नाभिमुखं प्रतीपयेत्।
- 2) निषेदुषी स्थाण्डिल एव केवले।
- 3) न पुत्रवात्सल्यमपाकरिष्यति।
- 4) तपोनवं तच्च बभूव पावकम्।

V. संस्कृते उत्तराणि लिखत।

अ) पञ्चानां लिङ्ग-विभक्ति-वचनानि लिखत।

(5×1=5)

- | | |
|-----------|------------|
| 1) हरिः | 2) वनेन |
| 3) सीताम् | 4) ग्रामे |
| 5) तेन | 6) कृष्णाय |
| 7) अहम् | 8) त्वया |

[P.T.O.]