

III Semester B.C.A. & B.C.A. (DATA SCIENCE) Degree Examination,
December/January - 2025/26
(SEP Scheme - Freshers)
LANGUAGE ENGLISH - III

Time : 3 Hours

Maximum Marks : 80

Instructions :

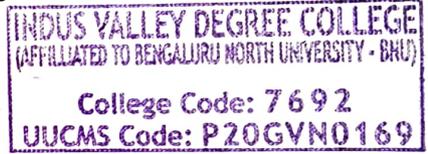
1. Read all the instructions carefully and write the answers.
2. Write the question numbers correctly.

SECTION - A

(Literary Component - 40 marks)

I. Answer any five of the following in one or two sentences. (5×2=10)

1. What sacrifice does Ekalavya make for his guru Drona in the play *Purpose*?
2. Drona is not able to teach archery to Ekalavya because _____.
 - a) Ekalavya was not talented
 - b) Ekalavya was poor
 - c) Ekalavya was a tribal boy
 - d) Arjuna was his favourite student
3. The story "*Luck*" shows that success sometimes comes by chance — True / False.
4. Mention the event in which Scoresby became famous in the story *Luck*.
5. According to D.H. Lawrence, what should people value more than money?
 - a) Power
 - b) Human kindness and relationships
 - c) Fame
 - d) Knowledge
6. Sardar Vallabhbhai Patel emphasized that real strength of a nation lies in the _____ of its people.
7. When did Sardar Vallabhbhai Patel deliver his speech 'The Future of the People' and on what occasion?



II. Answer any two of the following in about a page each. (2×5=10)

1. Discuss the story of Arjuna and Ekalavya as portrayed in T. P. Kailasam's *Purpose*.
2. The true purpose of education is service, not selfish ambition." Explain with reference to the play *Purpose*.

[P.T.O.]

3. How does the play *Purpose* bring out the injustice done to Ekalavya?
4. Analyze the significance of the title *Purpose*. What 'purpose' does each character try to fulfill in the play?
- III. Answer any one of the following in about two pages each. (1×10=10)
1. Discuss the theme of sacrifice and devotion in T. P. Kailasam's *Purpose* with reference to Ekalavya's character.
 2. How does the story *Luck* relate luck and success to human perception of achievement?
 3. What duties and obligations does Sardar Vallabhbhai Patel talk about as he congratulates the audience in his speech "The Future of the People"?
- IV. Answer any two of the following in about a page each. (2×5=10)
1. Examine the character of Scoresby. How does Mark Twain present him as both lucky and undeserving of his success?
 2. Discuss the main ideas expressed by Sardar Vallabhbhai Patel in his speech "The Future of the People".
 3. How does D.H Lawrence criticize society's obsession with money in the poem *Money Madness*?

SECTION - B

(Grammar - 40 marks)

- V. A. Answer any one of the following. (1×5=5)
1. Prepare a persuasive presentation for the topic "Why voting should be made mandatory in democracies".
 2. Prepare a brief oral presentation on "Increasing productivity among employees".
- B. Answer any one of the following. (1×5=5)
1. Prepare and present a welcome speech for the inauguration of a Science Exhibition in your college.
 2. Your college is celebrating Gandhi Jayanthi. Prepare and present a vote of thanks for the event.
- VI. Read the following passage and answer the questions given. (5×1=5)
- Globalization has significantly altered the way nations interact economically, culturally, and politically. By removing barriers to trade, communication, and travel, globalization has fostered a more interconnected world. Economically, it has enabled businesses to access international markets, leading to increased investment, innovation, and employment opportunities. Culturally, it has facilitated the exchange of ideas, art, and traditions, enriching societies with diverse perspectives. However, globalization also presents challenges. Economic disparities between countries can widen, as wealthier nations often reap more benefits. Local cultures may be overshadowed by dominant global influences, leading to cultural homogenization. Additionally, global interdependence can make countries vulnerable to international crises, such as financial recessions or pandemics.



To maximize the benefits of globalization while mitigating its risks, nations must adopt policies that encourage fair trade, protect local industries and traditions, and foster international cooperation. In this interconnected era, the success of globalization depends not only on economic gains but also on ethical governance, social responsibility, and cultural sensitivity.

Questions :

1. What are the main areas affected by globalization mentioned in the passage?
2. Give two economic benefits of globalization.
3. Globalization can lead to which cultural effect?
 - a) Complete isolation of societies
 - b) Exchange of ideas, art, and traditions
 - c) Decline in communication
 - d) Strict protectionism.
4. Globalization has only positive effects on all countries (True/False).
5. Economic disparities may _____ due to globalization.

VII. Answer any one of the following.**(1×5=5)**

1. You are attending classes for your course. For the past weeks, the projector system in the classroom has been malfunctioning, making it difficult to see slides clearly. This significantly impacts your learning experience. Write a formal complaint letter to the head of Facilities Management explaining the issue requesting immediate repair.
2. Write a letter to the Principal of your college requesting for three days leave to attend Youth Fest.

VIII. Answer any one of the following.**(1×5=5)**

1. You are admitted to a college in another city and want hostel accommodation. Write an enquiry letter to the hostel office asking about room availability, fees, and facilities.
2. Imagine that you work as a librarian in a school. Your school wants to purchase 100 books in the fiction category. Write an order letter to a vendor to place an order for the purchase of books (include the details of book names, cost, quantity, timeline of delivery)

IX. Answer any one of the following.**(1×5=5)**

1. **Take notes on the following paragraph using the linear format.**
World War I (1914-1918), also known as the Great War, was a global conflict that involved major world powers and reshaped international relations. Triggered by the assassination of Archduke Franz Ferdinand of Austria-Hungary, the war saw the mobilization of millions of soldiers and unprecedented industrial-scale

[P.T.O.]



warfare. Trench warfare, machine guns, chemical weapons, and tanks caused massive casualties and widespread destruction. Political alliances, nationalism, imperial competition, and militarism contributed to the war's outbreak and escalation. The Treaty of Versailles formally ended the war but imposed heavy reparations on Germany, sowing the seeds of resentment that led to World War II. The war also accelerated social change, including women entering the workforce, advancements in medicine, and the redrawing of national boundaries, fundamentally altering the 20th-century global order.

2. **Read the following passage carefully and then make notes in the tree diagram format.**

Mental health is as important as physical health, yet it is often neglected. In today's fast-paced world, stress, anxiety, and depression have become common problems among people of all ages. Students feel pressure to perform well in academics, adults struggle with job-related stress, and the elderly face loneliness. Many people hesitate to talk about mental health issues because of social stigma and lack of understanding. However, ignoring these problems can lead to serious consequences. It is important to create awareness about mental health and encourage people to seek help when needed. Simple practices like meditation, physical exercise, spending time with loved ones, and maintaining a balanced lifestyle can improve mental well-being. Schools, workplaces, and families should create supportive environments where people can talk openly about their emotions. Promoting mental health awareness helps build a more compassionate and emotionally strong society.

X. Answer any one of the following. (Referencing Skills) (1×5=5)

1. What is Plagiarism? Give one way to avoid Plagiarism.
2. Create bibliographic entry for the following
Title : "Digital literacy and the post-Truth Era"
Author : Anjana Menon
Journal : Indian Journal of Communication Studies
Volume : 25
Issue : 2
Year : 2022
Page : 34-49

XI. Answer any one of the following. (1×5=5)

1. Design a tourism brochure promoting your city, including attractions, facilities, contact information.
 2. You are John Smith a resident of J P Nagar, Bangalore. You have decided to sell your 2019 Hyundai Verna Car. Draft a classified newspaper ad for selling the car including contact details and price.
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SCAKN301

III Semester B.C.A./B.C.A.- D.A./D.S Degree Examination,
December/January - 2025/26
(SEP Scheme, Freshers)

ಕನ್ನಡ ಭಾಷೆ
ಕನ್ನಡ ಧಾರೆ
ಪತ್ರಿಕೆ - 3

Time : 3 Hours

Maximum Marks : 80

I. ಅ) ಪದ್ಯದ ಭಾವಾರ್ಥ ಬರೆಯಿರಿ. (1×6=6)

ಸ್ತುತಿ ನಿಂದೆಗೆ ಕಿವುಡನಾಗಿರಬೇಕು
ಪರಧನ ಪರಸತಿಯರಿಗೆ ಅಂಧಕನಾಗಿರಬೇಕು
ವಾಕಿನಿಂ ಪರಬ್ರಹ್ಮ ನುಡಿವ ಕುತರ್ಕಿಗಳೆಡೆಯಲ್ಲಿ
ಮಾಗಿಯ ಕೋಗಿಲೆಯಂತೆ ಮೂಗನಾಗಿರಬೇಕು
ಒಂದೆಂದೆಡೆಲ್ಲಿ ಸಂದೇಹವಿಲ್ಲದಿರಬೇಕು
ಗುಹೇಶ್ವರ ಲಿಂಗದಲ್ಲಿ ತನ್ನ ತಾ ಮಱಿದಿರಬೇಕು

INDUS VALLEY DEGREE COLLEGE
(AFFILIATED TO BENGALURU NORTH UNIVERSITY - BNU)
College Code: 7692
UUCMS Code: P20GVN0169

ಆ) ಎರಡಕ್ಕೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ. (2×2=4)

1. ಹರಿಹರ
2. ಕೀರ್ತನೆ
3. ಕುಮಾರವ್ಯಾಸ
4. ತತ್ವಪದ

II. ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಉತ್ತರಿಸಿ. (6×5=30)

1. ಕೊಡಗೂಸಿನ ತಾಯಿಯ ನೇಮ
2. ಗಣಪತಿರಾಯ ಹೆಂಡತಿಯ ಮೇಲೆ ರೇಗಲು ಕಾರಣ
3. ಕನಕದಾಸರ ಭಕ್ತಿಯ ಪರಿಕಲ್ಪನೆ
4. ಡೆನ್ಮಾರ್ಕ್‌ನ ಲಿಸ್ಸಾಲೊಟ್ಟಿ

[P.T.O.]



5. ಅಸ್ಥಾನ ಮನೆಗಳ ವಿಶೇಷತೆ
6. 'ಮೂಕನಾಗಬೇಕು' ತತ್ವಪದದ ಆಶಯ
7. ಇಂದ್ರಕೀಲ ಪ್ರಸಂಗ
8. ಹಳೇ ಕೋಟು ರಿಪೇರಿಯಾದ ಬಗೆ

III. ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ವಿವರವಾಗಿ ಉತ್ತರಿಸಿ.

(2×10=20)

1. ಕೊಡಗೂಸಿನ ಮುಗ್ಧ ಭಕ್ತಿಗೆ ಶಿವನು ಒಲಿದ ಪರಿಯನ್ನು ವಿವರಿಸಿ.
2. 'ಅತಿಥಿ ಮತ್ತು ಕೋತಿ' ಕಥೆಯ ವಿಶೇಷತೆಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
3. ಮಾವ ಕೊಡಿಸಿದ ಕೋಟು ಅಜರಾಮರ ಹೇಗೆ? ವಿಶ್ಲೇಷಿಸಿ.
4. 'ಮನುಷ್ಯರಿಗಿಂತ ಪ್ರಾಣಿಗಳೇ ಹೆಚ್ಚು ಉಪಕಾರಿ' - ಚರ್ಚಿಸಿ.

IV. ಅ) ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಉತ್ತರಿಸಿ.

(2×5=10)

1. ಸಾಧುಗಳು ರಾಮ್‌ಜಿ ದಂಪತಿಗಳಿಗೆ ನೀಡಿದ ಭರವಸೆ
2. ಭೀಮಾಬಾಯಿ ಪಾತ್ರದ ಪರಿಚಯ
3. ಅಂಬೇಡ್ಕರ್ ಅವರ ಮದುವೆ ಪ್ರಸಂಗ
4. ಬರೋಡ ಮಹಾರಾಜರು ಅಂಬೇಡ್ಕರ್ ಅವರಿಗೆ ನೀಡಿದ ನೆರವು

ಆ) ಒಂದು ಪ್ರಶ್ನೆಗೆ ವಿವರವಾಗಿ ಉತ್ತರಿಸಿ.

(1×10=10)

1. ಅಂಬೇಡ್ಕರ್‌ರು ತಮ್ಮ ಸಹಪಾಠಿಯ ತಂದೆಯನ್ನು ನೋಡಲು ಹೋದಾಗಿನ ಅಸ್ಪೃಶ್ಯತೆಯ ಕರಾಳತೆಯನ್ನು ವಿವರಿಸಿ.
2. ಕೊಲಂಬಿಯಾ ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲಿ ಅಂಬೇಡ್ಕರ್ ಅವರು ವ್ಯಾಸಂಗ ಮಾಡಿದ ಬಗೆಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.



(3)

SAEHI305

VI. हिन्दी में अनुवाद कीजिये।

(1×10=10)

The new India born of a revolution. It as been essentially peaceful and non-violent we are pledged to democracy. The future progress of the country depends on accomplishing in a few decades the work of centuries. The essential means of bringing about a new society education in a welfare state our aim should be provide food, clothing and shelter to all our citizens. We should also make them live as brothers even though they may belong to different races and provinces education can give us full help in this regard.



213144

SADEN301

III Semester B.A./B.Sc./B.Com./B.B.A./B.C.A. and Other Courses
Degree Examination, December/January - 2025/26

(SEP Scheme Freshers)

ADDITIONAL ENGLISH

Sublime-III

Time : 3 Hours

Maximum Marks : 80

Instructions :

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

PART - A

- I. What is the origin of Pechakucha presentation? Prepare a sample presentation on traditional art forms of Indian in about five slides. (5)

(OR)

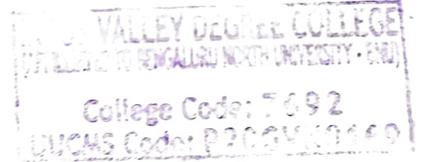
Prepare a Power Point Presentation on Artificial Intelligence in about seven slides. Include how AI has transformed English language learning.

- II. Analyze the poem and answer the questions set on it. (5)

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host, of golden daffodils ;
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way,
They stretched in never-ending line
Along the margin of a bay :
Ten thousand saw I at a glance,
Tossing their heads in sprightly dance.

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.



[P.T.O.]



- a) In the Poem 'The Daffodils', the poet has described the beauty of _____.
- b) Where were the daffodils?
- behind the forest
 - beneath the trees in orchard
 - by the side of lake
 - beside the river
- c) The poet saw _____ daffodils at a glance.
- d) When the poet was in pensive mood what made his heart filled with pleasure?
- e) What do you think is the theme of this poem?

III. What is a Portfolio? List the types of Portfolios. (5)

(OR)

Write a concluding reflection for your portfolio (Around 100-150 words)

In this concluding note, summarise your learning journey and mention your academic or career goals for the future.

IV. Express your views/opinion about the given picture below: (5)



PART - B

V. Answer any Five questions of the following in a sentence or two : (5×2=10)

- What happens to the man in the final stage of life according to the poem 'All the World's A Stage'?
- Who are the flowers compared to in the poem 'Flower-School'?
- Where does the narrator meet the young girl in the story?
 - On the railway platform at Deoli
 - At a tea stall
 - At his grandmother's house



4. The wife of _____ gave the name Dopdi at her birth.
5. Mrs. Stevenson called the operator the first time because she repeatedly called her husband but his line was busy. (True/False)
6. How was Mrs. Stevenson able to hear the conversation between the two men?
7. Mention the words used to describe Mrs. Stevenson.

VI. Answer any Four questions of the following in about 80-100 words : (4×5=20)

1. Which stage do you think is the happiest and which is the saddest one? Give reasons for your answers with reference to the poem 'All the World's A Stage'.
2. How does the poem 'The Flower-School' highlight the innocence of childhood? Provide examples from the text.
3. Analyse the theme of unfulfilled longing in the story 'The Night Train at Deoli'.
4. Illustrate the author's portrayal of the relationship between Senanayak and Draupadi?
5. Examine how Mrs. Stevenson was portrayed as both powerful and powerless throughout the play.
6. Justify the title 'Sorry, Wrong Number' with reference to the beginning and the ending of the play.

VII. Answer any Three questions of the following in about 300-350 words :

1. Shakespeare has skillfully brought out the parallels between life of man and actors on stage. Explain. (3×10=30)
 2. How are humans and nature inter-related as per the poem 'The Flower-School'?
 3. What does the narrator's decision to keep passing through Deoli without stopping suggest about his character?
 4. Narrate the situation when Dopdi hears her name called but doesn't respond.
 5. Human helplessness in times of crisis creates sense of horror and apprehension. Explain how these elements are well presented by Lucille Fletcher in the play 'Sorry, Wrong Number'.
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SDCCA-301

**III Semester B.C.A./B.C.A.(DS) Degree Examination,
December/January - 2025/26
(SEP Scheme Freshers)
COMPUTER APPLICATIONS
Object Oriented Concepts Using Java
Paper - CA3T1**

Time : 3 Hours**Maximum Marks : 80****Instructions :***Answer All the Sections.***SECTION - A****I. Answer any Ten questions. Each question carries 2 marks. (10×2=20)**

1. What are the two types of Java program?
2. What is a token? Give an example.
3. Write the difference between prefix and postfix increment.
4. Differentiate between object and classes.
5. What is method overloading?
6. Define String.
7. What is an interface?
8. Mention any two advantages of packages.
9. Differentiate between single and multithread.
10. What is an applet?
11. What is a file?
12. What is Stream Tokenizer?

**[P.T.O.]**

**SECTION - B**

- II. Answer any Six questions. Each question carries 5 marks. (6×5=30)**
13. Discuss various data types available in Java.
 14. Explain nested loop with an example.
 15. Discuss different types of constructors with example.
 16. Explain two dimensional array with an example.
 17. Explain creating and implementing user defined packages.
 18. Explain creating and extending thread with example.
 19. Describe Applet life cycle model.
 20. Write a note on character stream classes.

SECTION - C

- III. Answer any Three questions. Each question carries 10 marks. (3×10=30)**
21. a) Explain if-else statement with syntax and example. (5)
b) Explain switch statement with an example. (5)
 22. Write a program to calculate bonus for different departments using method overriding. (10)
 23. a) Explain thread life cycle model. (5)
b) Explain finally block with example. (5)
 24. a) Write an applet program to find the sum of two integers using user input. (5)
b) Discuss the following graphics class:
 - i) Circle
 - ii) Ellipse. (5)
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280913

SDCCA-302

**III Semester B.C.A./B.C.A.(DS) Degree Examination,
December/January - 2025/26
(SEP Scheme Freshers)
COMPUTER APPLICATIONS
Database Management Systems
Paper - CA3T2**

Time : 3 Hours

Maximum Marks : 80

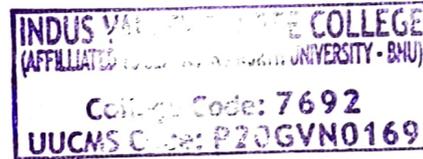
Instructions :

Answer all the Sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks. (10×2=20)

1. Write any two advantages of DBMS.
2. Define ER model.
3. What is entity?
4. What is a domain constraint?
5. Expand DCL and TCL.
6. What is a view in SQL?
7. Name the different data types available in PL/SQL.
8. What is a Cursor? Mention the types.
9. What is functional dependency?
10. What is deadlock?
11. List any two ACID properties.
12. What is starvation?



[P.T.O.]

**SECTION - B**

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. What is data independence? Mention its types in DBMS.
14. With a neat diagram, explain the three-schema architecture of DBMS.
15. Explain aggregate functions with examples.
16. Explain DML commands with example.
17. Explain basic concepts of PL/SQL.
18. Write a note on anomalies in relational database design.
19. Describe transaction states with a state diagram.
20. Explain the lock-based concurrency control technique with examples.

SECTION - C

III. Answer any Three questions. Each question carries 10 marks. (3×10=30)

21. a) Explain any two data models in DBMS. (5)
b) Draw an ER diagram for Library Management System with minimum four entities. (5)
 22. a) Explain characteristics of relations. (5)
b) Explain Views with example. (5)
 23. Explain 1NF and 3NF with example. (10)
 24. a) Explain the lost update problem with illustrations. (5)
b) Explain the different types of failures that may occur in transaction processing. (5)
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SDCCA305

**III Semester B.C.A. Degree Examination, December/January - 2025/26
(SEP Scheme Freshers)**

COMPUTER APPLICATIONS

Design and Analysis of Algorithms

Paper - CA3T3

Time : 3 Hours

Maximum Marks : 80

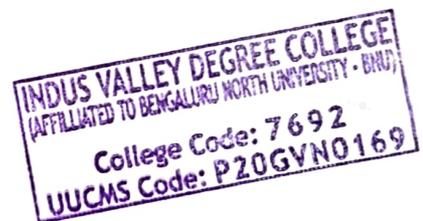
Instructions :

Answer All the Sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks. (10×2=20)

1. Define order of growth.
2. What is recursive algorithm?
3. Define time complexity.
4. Expand BFS and DFS.
5. What is meant by Exhaustive search?
6. Define Brute-force algorithm.
7. What are the advantages of decrease and conquer methodology?
8. What are the applications of quick sort?
9. What is binary search?
10. What do you mean by Greedy technique?
11. Define decision tree.
12. Define NP-Problem.



SECTION - B

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. Explain the fundamentals of algorithmic problem solving.
14. What are the criteria that an algorithm must satisfy?

[P.T.O.]



- 15. Write the working of selection sort with suitable example.
- 16. Compare between DFS and BFS.
- 17. Explain merge sort with an example.
- 18. Write an algorithm of topological sorting.
- 19. Explain the Prim's algorithm with an example.
- 20. Explain the Lower-Bound Arguments.

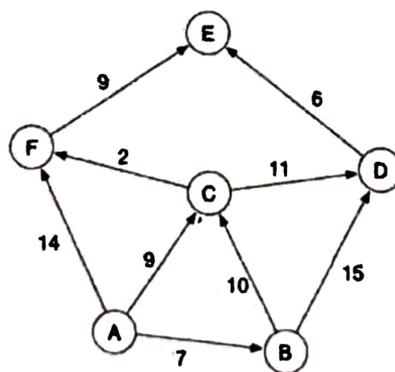
SECTION - C

III. Answer any Three questions. Each question carries 10 marks. (3×10=30)

- 21. Explain the asymptotic notations in brief. (10)
- 22. Define Knapsack Problem. Consider the following items with capacity $W = 7$. Find the maximum optimum value. (10)

Item	Weight	Value
1	1	1
2	3	4
3	4	5
4	5	7

- 23. Define a binary tree. Explain the algorithm of tree traversal with an example. (10)
- 24. Define Dijkstra's algorithm. Find the shortest path from node A to E. (10)





SDCCA304

**III Semester B.C.A. / B.C.A. (DS) Degree Examination,
December/January - 2025/26
(SEP Scheme Freshers)
COMPUTER APPLICATIONS (DSE1)
Cloud Computing (Elective)**

Time : 1½ Hours

Maximum Marks : 40

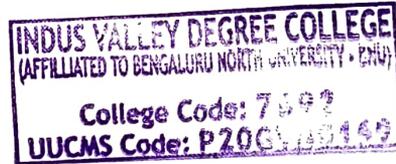
Instructions :

Answer All the Sections.

SECTION - A

I. Answer any Five questions. Each question carries 2 marks. (5×2=10)

1. Define Cloud Computing.
2. Define Public Cloud.
3. Write any two applications of cloud computing.
4. What is Virtualization?
5. Define Grid Computing.
6. Write any two Cloud service providers.
7. Define SaaS.
8. What is Cloud Security?



SECTION - B

II. Answer any Five questions. Each question carries 6 marks. (5×6=30)

9. Discuss the working of Cloud Computing with a neat diagram.
10. Explain features of Cloud Computing.

[P.T.O.]



11. Explain Private Cloud and Hybrid Cloud.
12. Explain the components of Cloud Architecture with neat diagram.
13. Explain Hardware and Storage Virtualization.
14. Explain Cloud Modelling.
15. Explain any two types of Cloud service models.
16. Discuss Data Security challenges in Cloud.

19NQ