M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is greater than 50 when he/she has income greater than 60K\$. Write an AIML code to demonstrate the chatbot for admission query in XYZ College of 20 Arts, Science. 3 Viva 5 Journal 5 4

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering age and income columns.	
2	Design the semantic net for the following text provided:	20
	Chemical bonds are the connections between atoms in a molecule. These bonds include both strong intramolecular interactions, such as covalent and ionic bonds. They are	
	related to weaker intermolecular forces, such as dipole-dipole interactions, the London	
	dispersion forces, and hydrogen bonding. The weaker forces will be discussed in a later	
	concept.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate joint probability of events customer is female customer and spending score is more than 40. Design the genetic algorithm for the following cases consider 2 20 the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be ≥ 3 . Viva 5 3 4 Journal 5

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply Bayes formula on the Mall_cust.csv dataset by considering age and spending score columns.	
2	Write an AIML code to demonstrate the chatbot for handling exam related in XYZ	20
	College of Arts, Science.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers Calculate the probability of customer spending score is greater than 50 when he/she has age greater than 40. Design the semantic net for the following text provided: 2 20 A hierarchical organization is an organizational structure where every entity in the organization, except one, is subordinate to a single other entity. This arrangement is a form of a hierarchy. In an organization, the hierarchy usually consists of a singular/group of power at the top with subsequent levels of power beneath them. This is the dominant mode of organization among large organizations; most corporations, governments, criminal enterprises, and organized religions are hierarchical organizations with different levels of management, power or authority. For example, the broad, top-level overview of the general organization of the Catholic Church consists of the Pope, then the Cardinals, then the Archbishops, and so on. Viva 3 5 4 Journal 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering age and spending	
	score columns.	
2	Design the genetic algorithm for the following cases consider	20
	the swarmalika given	
	{Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes	
	above Ga are called High notes and below are called low notes.	
	Generate the new combination of swarmalika having good fitness value. Fitness	
	value should be >= 3.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply Bayes formula on the Mall_cust.csv dataset by considering gender and spending score columns.	
2	Write an AIML code to demonstrate the chatbot - applying for the MS in foreign	20
	University.	
3	Viva	5
4	Journal	5

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

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Seat	No Max. Marks	: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Calculate joint probability of events customer is male customer and spending score is less than 30.	
2	Design the semantic net for the following text provided:	20
	solidA substance that retains its size and shape without a container; a substance whose molecules cannot move freely except to vibrate.	
	gasA substance that can only be contained if it is fully surrounded by a container (or held together by gravitational pull); a substance whose molecules have negligible	
	intermolecular interactions and can move freely.	
	liquidA substance that flows and keeps no definite shape because its molecules are	
	loosely packed and constantly moving. It takes the shape of its container but maintains constant volume.	
3	Viva	5
4	Journal	5
1	Dataset: Mall cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering gender and income columns.	
2	Design the genetic algorithm for the following cases	20
	consider the swarmalika given (Sa Ba Ca Ma Ba) (Ba Ma Ba Ni Dh) (Ba Ca Ba Sa Ma) Natas	
	{Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes	
	above Ga are called High notes and below are called low notes.	
	Generate the new combination of swarmalika having good fitness value.	
	Fitness value should be >= 3.	

	3	Viva	5
4	4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat	No Max. Marks	: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Calculate the probability of customer spending score is lesser than 50 when he/she has age less than 50.	
2	Write an AIML code to demonstrate the chatbot -payment query about your flipkart order	20
3	Viva	5
4	Journal	5

1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply Bayes formula on the Mall_cust.csv dataset by considering income and spending score columns.	
2	Design the semantic net for the following text provided:Chemical bonds are the	20
	connections between atoms in a molecule. These bonds include both strong	
	intramolecular interactions, such as covalent and ionic bonds. They are related to weaker	
	intermolecular forces, such as dipole-dipole interactions, the London dispersion forces,	
	and hydrogen bonding. The weaker forces will be discussed in a later concept	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is greater than 50 when he/she has age less than 60. Design the genetic algorithm for the following cases consider 20 the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be $\geq =3$. Viva 3 5 Journal

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat	Seat No Max. Marks: 5	
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering income and spending score columns.	
2	Write an AIML code to demonstrate the chatbot for admission query in XYZ College of Arts, Science.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate joint probability of events customer is female customer and income is more than 40K\$. Design the semantic net for the following text provided: A hierarchical organization is an organizational structure where every entity in the organization, except one, is subordinate to a single other entity. This arrangement is a form of a hierarchy. In an organization, the hierarchy usually consists of a singular/group of power at the top with subsequent levels of power beneath them. This is the dominant mode of organization among large organizations; most corporations, governments, criminal enterprises, and organized religions are hierarchical organizations with different levels of management, power or authority. For example, the broad, top-level overview of the general organization of the Catholic Church consists of the Pope, then the Cardinals, then the Archbishops, and so on. 3 Viva 4 Journal 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Max. Marks: 50

Seat No

Scat	at 110	
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering gender and spending score columns.	
2	Design the genetic algorithm for the following cases consider the swarmalika given	20
	{Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes.	
	Generate the new combination of swarmalika having good fitness value.	
	Fitness value should be >=3.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall cust.csv dataset by considering age and income columns. Write an AIML code to demonstrate the chatbot for support required for installing the 20 software on your laptop. Viva 3 5 Journal 5 4

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is greater than 50 when he/she has income greater than 60K\$.	20
2	Design the semantic net for the following text provided: A hierarchical organization is an organizational structure where every entity in the organization, except one, is subordinate to a single other entity. This arrangement is a form of a hierarchy. In an organization, the hierarchy usually consists of a singular/group of power at the top with subsequent levels of power beneath them. This is the dominant mode of organization among large organizations; most corporations, governments, criminal enterprises, and organized religions are hierarchical organizations with different levels of management, power or authority. For example, the broad, top-level overview of the general organization of the Catholic Church consists of the Pope, then the Cardinals, then the Archbishops, and so on.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply K-mean algorithm on Mall cust.csv dataset by considering age and income columns. 2 Design the genetic algorithm for the following cases consider 20 the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be $\geq =3$. 3 Viva 5 4 Journal 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Calculate joint probability of events customer is female customer and spending score is more than 40.	
2	Write an AIML code to demonstrate the chatbot for support required for installing the software on your laptop	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall cust.csv dataset by considering age and spending score columns. Write an AIML code to demonstrate the chatbot for admission query in XYZ College of 20 Arts, Science. 3 Viva 5 5 4 Journal

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat I	No Max. Marks	5: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Calculate the probability of customer spending score is greater than 50 when he/she has age greater than 40.	
2	Design the semantic net for the following text provided:	20
	Chemical bonds are the connections between atoms in a molecule. These bonds include	
	both strong intramolecular interactions, such as covalent and ionic bonds. They are	
	related to weaker intermolecular forces, such as dipole-dipole interactions, the London	
	dispersion forces, and hydrogen bonding. The weaker forces will be discussed in a later	
	concept	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply K-mean algorithm on Mall cust.csv dataset by considering age and spending score columns. Design the genetic algorithm for the following cases consider 20 the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be $\geq =3$. Viva 5 3 4 Journal 5

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat !	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Apply Bayes formula on the Mall_cust.csv dataset by considering gender and spending score columns.	
2	Write an AIML code to demonstrate the chatbot for handling exam related in XYZ	20
	College of Arts, Science.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat I	Seat No Max. Marks:	
1	Dataset: Mall_cust.csv This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate joint probability of events customer is male customer and spending score is less than 30.	20
2	Design the semantic net for the following text provided: A hierarchical organization is an organizational structure where every entity in the organization, except one, is subordinate to a single other entity. This arrangement is a form of a hierarchy. In an organization, the hierarchy usually consists of a singular/group of power at the top with subsequent levels of power beneath them. This is the dominant mode of organization among large organizations; most corporations, governments, criminal enterprises, and organized religions are hierarchical organizations with different levels of management, power or authority. For example, the broad, top-level overview of the general organization of the Catholic Church consists of the Pope, then the Cardinals, then the Archbishops, and so on.	20
3	Viva	5
4	Journal	5

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering gender and income columns.	
2	Design the genetic algorithm for the following cases consider the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be >=3.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is lesser than 50 when he/she has age less than 50. Write an AIML code to demonstrate the chatbot - applying for the MS in forigen 20 University Viva 3 5 Journal 5 4

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat I	Seat No Max. Marks: 5	
1	Dataset: Mall_cust.csv This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall_cust.csv dataset by considering income and spending score columns.	20
2	Design the semantic net for the following text provided: solidA substance that retains its size and shape without a container; a substance whose molecules cannot move freely except to vibrate. gasA substance that can only be contained if it is fully surrounded by a container (or held together by gravitational pull); a substance whose molecules have negligible intermolecular interactions and can move freely. liquidA substance that flows and keeps no definite shape because its molecules are loosely packed and constantly moving. It takes the shape of its container but maintains constant volume.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is greater than 50 when he/she has age less than 60. 2 Design the genetic algorithm for the following cases consider 20 the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be $\geq =3$. 3 Viva 5 5 4 Journal

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat	Seat No Max. Marks: 5	
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering income and spending score columns.	
2	Write an AIML code to demonstrate the chatbot -payment query about your flopkart	20
	order	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate joint probability of events customer is female customer and income is more than 40K\$. Design the semantic net for the following text provided: Chemical bonds are the connections between atoms in a molecule. These bonds include both strong intramolecular interactions, such as covalent and ionic bonds. They are related to weaker intermolecular forces, such as dipole-dipole interactions, the London dispersion forces, and hydrogen bonding. The weaker forces will be discussed in a later concept. 3 Viva 5 5 4 Journal

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering gender and spending score columns.	
2	Design the genetic algorithm for the following cases consider the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be >=3.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall cust.csv dataset by considering age and income columns. Write an AIML code to demonstrate the chatbot for admission query in XYZ College of 20 Arts, Science. 3 Viva 5 Journal 5 4

UNIVERSITY OF MUMBAI

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	Seat No Max. Marks: 5	
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Calculate the probability of customer spending score is greater than 50 when he/she has income greater than 60K\$.	
2	Write an AIML code to demonstrate the chatbot -payment query about your flopkart order	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply K-mean algorithm on Mall cust.csv dataset by considering age and income columns. Design the semantic net for the following text provided: Chemical bonds are the connections between atoms in a molecule. These bonds include both strong intramolecular interactions, such as covalent and ionic bonds. They are related to weaker intermolecular forces, such as dipole-dipole interactions, the London dispersion forces, and hydrogen bonding. The weaker forces will be discussed in a later concept 3 Viva 5 5 4 Journal

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Mary Marilya, 50

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Seat	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Calculate joint probability of events customer is female customer and spending score is more than 40.	
2	Design the genetic algorithm for the following cases	20
	consider the swarmalika given	
	{Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes.	
	Generate the new combination of swarmalika having good fitness value. Fitness	
	value should be >=3.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat No Max. Mark		s: 50
1	Dataset: Mall_cust.csv This file contains the basic information (ID, age, gender, income, spending score) about the customers.	20
	Apply Bayes formula on the Mall_cust.csv dataset by considering age and spending score columns.	
2	Write an AIML code to demonstrate the chatbot for admission query in XYZ College of Arts, Science.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 Dataset: Mall cust.csv 1 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is greater than 50 when he/she has age greater than 40. 2 Design the semantic net for the following text provided: A hierarchical organization is an organizational structure where every entity in the organization, except one, is subordinate to a single other entity. This arrangement is a form of a hierarchy. In an organization, the hierarchy usually consists of a singular/group of power at the top with subsequent levels of power beneath them. This is the dominant mode of organization among large organizations; most corporations, governments, criminal enterprises, and organized religions are hierarchical organizations with different levels of management, power or authority. For example, the broad, top-level overview of the general organization of the Catholic Church consists of the Pope, then the Cardinals, then the Archbishops, and so on. Viva 3 5 Journal

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Mary Mariles, 50

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Seat.	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply K-mean algorithm on Mall_cust.csv dataset by considering age and spending score columns.	20
2	Design the genetic algorithm for the following cases consider the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be >=3.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall cust.csv dataset by considering gender and spending score columns. 2 Write an AIML code to demonstrate the chatbot for support required for installing the 20 software on your laptop. 3 Viva 5 4 Journal 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat.	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Calculate joint probability of events customer is male customer and spending score is	
	less than 30.	
2	Write an AIML code to demonstrate the chatbot for admission query in XYZ College of	20
	Arts, Science.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply K-mean algorithm on Mall cust.csv dataset by considering gender and income columns. Design the semantic net for the following text provided: 20 2 Chemical bonds are the connections between atoms in a molecule. These bonds include both strong intramolecular interactions, such as covalent and ionic bonds. They are related to weaker intermolecular forces, such as dipole-dipole interactions, the London dispersion forces, and hydrogen bonding. The weaker forces will be discussed in a later concept. Viva 5 Journal

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat I	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Calculate the probability of customer spending score is lesser than 50 when he/she has age less than 50.	
2	Design the genetic algorithm for the following cases consider the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be >=3.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall cust.csv dataset by considering income and spending score columns. Write an AIML code to demonstrate the chatbot for handling exam related in XYZ College of Arts, Science. 3 Viva 5 4 Journal 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate the probability of customer spending score is greater than 50 when he/she has age less than 60.	20
2	Design the semantic net for the following text provided: A hierarchical organization is an organizational structure where every entity in the organization, except one, is subordinate to a single other entity. This arrangement is a form of a hierarchy. In an organization, the hierarchy usually consists of a singular/group of power at the top with subsequent levels of power beneath them. This is the dominant mode of organization among large organizations; most corporations, governments, criminal enterprises, and organized religions are hierarchical organizations with different levels of management, power or authority. For example, the broad, top-level overview of the general organization of the Catholic Church consists of the Pope, then the Cardinals, then the Archbishops, and so on.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Calculate joint probability of events customer is female customer and income is more than 40K\$. 2 Design the genetic algorithm for the following cases consider 20 the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be $\geq =3$ Viva Journal 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat	No Max. Marks	s: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering income and spending score columns.	
2	Write an AIML code to demonstrate the chatbot - applying for the MS in forigen	20
	University.	
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No_____ Max. Marks: 50

1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply K-mean algorithm on Mall_cust.csv dataset by considering gender and spending score columns.	
2	Design the semantic net for the following text provided: solidA substance that retains its size and shape without a container; a substance whose molecules cannot move freely except to vibrate. gasA substance that can only be contained if it is fully surrounded by a container (or held together by gravitational pull); a substance whose molecules have negligible intermolecular interactions and can move freely. liquidA substance that flows and keeps no definite shape because its molecules are loosely packed and constantly moving. It takes the shape of its container but maintains constant volume.	20
3	Viva	5
4	Journal	5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

May Marks: 50

Soat No.

Seat	NO	5. JU
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score)	
	about the customers.	
	Apply Bayes formula on the Mall_cust.csv dataset by considering age and income columns.	
2	Design the genetic algorithm for the following cases consider the swarmalika given {Sa,Re,Ga,Ma,Pa} {Re, Ma, Pa, Ni Dh} {Re, Ga, Re, Sa, Ma} Notes above Ga are called High notes and below are called low notes. Generate the new combination of swarmalika having good fitness value. Fitness value should be >=3.	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No Max. Marks: 50 1 Dataset: Mall cust.csv 20 This file contains the basic information (ID, age, gender, income, spending score) about the customers. Apply Bayes formula on the Mall cust.csv dataset by considering gender and spending score columns. Write an AIML code to demonstrate the chatbot for admission query in XYZ College of 20 Arts, Science. 3 Viva 5 5 Journal 4

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat 1	No Max. Marks	3: 50
1	Dataset: Mall_cust.csv	20
	This file contains the basic information (ID, age, gender, income, spending score) about the customers.	
	Calculate joint probability of events customer is male customer and spending score is less than 30.	
2	Write an AIML code to demonstrate the chatbot for support required for installing the software on your laptop	20
3	Viva	5
4	Journal	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

A. Design a bot using AIML 20

B. Write an application to stimulate unsupervised learning model. 20

C. Journal 5

D. Viva 5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No

Max. Marks: 50

 A.
 Design an Expert system using AIML
 20

 B.
 Simulate artificial neural network model with both feedforward and backpropagation approach.
 20

 C.
 Journal
 5

 D.
 Viva
 5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Se	at N	0	Max. Mark	ks: 50
1	A.	Implement Conditional Probability and joint probability using Python.		20
]	В.	Write an application to implement clustering algorithm		20
(C.	Journal		5
]	D.	Viva		5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

A. Write a program for to implement Rule based system

20

B. Write an application to stimulate unsupervised learning model

C. Journal

5

D. Viva

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat N	No	Max. Marks: 5
A.	Design a Fuzzy based application using Python / R	20
B.	Write an application to stimulate supervised learning model.	20
C.	Journal	
D.	Viva	4

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat N	No	Max. Mark	s: 50
A.	Write an application to stimulate supervised learning model.		20
В.	Write a program for to implement Rule based system.		20
C.	Journal		5
D.	Viva		5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat N	No	Max. Marks: 50	
A.	Write an application to stimulate unsupervised learning model.		20
В.	Implement Conditional Probability and joint probability using Python.		20
C.	Journal		5
D.	Viva		5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat NoMax. Marks: 50A.Write an application to implement clustering algorithm20B.Implement Bayes Theorem using Python20C.Journal5D.Viva5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Max. Marks: 50

Seat No

A.	Write an application to implement support vector machine algorithm.	20
B.	Design an Expert system using AIML	20
C.	Journal	5
D.	Viva	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Seat No

Seat No_____

Max. Marks: 50

Max. Marks: 50

Scar 1	12444	1411151 00
A.	Simulate artificial neural network model with both feedforward and backpropagation approach.	20
B.	Design a bot using AIML	20
C.	Journal	5
D.	Viva	5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

A.	Write an application to implement support vector machine algorithm.	20
B.	Implement Conditional Probability and joint probability using Python.	20
C.	Journal	5
D.	Viva	5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

A. Simulate artificial neural network model with both feedforward and backpropagation approach.

B. Design a bot using AIML

C. Journal

D. Viva

Max. Marks: 50

20

20

5

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M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

Seat No		Max. Marks: 50	
A.	Write an application to implement support vector machine algorithm.		20
В.	Design an Expert system using AIML		20
C.	Journal		5
D.	Viva		5

M. Sc. INFORMATION TECHNOLOGY (Semester III)

PRACTICAL EXAMINATION (ADDITIONAL) FIRST HALF 2023

PSIT3P2a Applied Artificial Intelligence Practical

Viva

D.

5