

AFFILIATED TO UNIVERSITY OF MUMBAI - NAAC REACCREDITED - 'A' GRADE

AQAR 2023-24

2.6.2 - Attainment of Programme Outcomes and Course Outcomes

as evaluated by the institution

A successful attempt was made to measure the quantitative attainment of course outcomes of a few courses using Excel. Setting of the question papers was carried out as per Bloom's taxonomy. Mapping of the questions were completed as per their respective COs. Analysis of assessed papers were done, and marks distribution was presented CO wise. CO wise attainment percentage was obtained for each student. The percentage obtained was scaled down to 1, 2 and 3 by keeping the bracket of 40 to 60, 60 to 80 and Above 80 and its average was presented as graph. Encouraged by the response more courses will be measured for their attainment in the forthcoming years.



Principal
SIES Collage of Arts, Science &
Commerce (Autonomous)
Sion (West), Mumbai - 400 022.

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), SION WEST, MUMBAI – 400 022. SEMESTER END EXAMINATION **Class: SYBA Semester: IV Paper Title: Applied Component Subject: Comparative Study of Religions** Paper code: SIUACOR 41 Day: Date: Time: **Maximum Marks: 60** NOTE: 1. Attempt all four questions with the given choice. 2. Figures to the right indicate maximum marks. Explain in detail the concept of God and nature of world as conceived in Q.1. (a) Hinduism. (15)OR Bring out the significance of prayer and worship in Hinduism. Write a Q.1. (b) note on Samskaras or milestone rites in Hindu Dharma. (15)Why is Jainism called a Shramana and Nastika tradition Discuss at length Q.2. (a) the Jain calendar. (15) \mathbf{OR} How would you express the concept of life after death and human destiny O.2. (b) as mentioned in Hinduism and Jainism? (15)Q.3. (a) Elaborate on the main ideas of the scriptures in Buddha Dhamma. What caused the formation of major sects in Buddhism? (15)OR How would you prove the significance of *Dhamma* with special reference Q.3. (b) to Arya satyanis and Arya Astangika marga? (15)Is Sikhism a syncretic faith? Bring out the socio-cultural roots of Sikhism Q.4. (a) with reference to the teachings of Gurus. (15)

In context of fundamental beliefs in Sikhism, examine the concepts of

human status, evil and suffering.

O.4. (b)

(15)

Name of the Programme	Bachelor of Arts		Programme Code	SIUAPHI	Name of the Department	Philosophy
Class	Semester	Course Code	Course Name	No. of Lectures/PER WEEK	Credits	Marks
SYBA	IV	SIUACOR 41	Comparative Study of Religions	45/4	2	40 + 60 = 100

Learning Outcomes -

Comparative Study of Religions Course aims at enhancing the skill and attitude based programme outcomes

while mapping them with knowledge competencies as listed below:

Affinity with	COs	Statements	Cognitive
PO nos.	COS	Statements	Levels
3	CO1	Illustrate the evolving nature of the Indian origin religions	U
4, 8	CO2	Develop conceptual understanding of Indian traditional beliefs with a scientific rationale	U, AN
3, 5, 7	CO3	Explain the importance of ethico-religious experiences	Ap

PO- Program Outcome, CO-Course Outcome; Bloom's Levels: U-Understanding; Ap-Applying; An-Analyzing; E-Evaluating

Q. No.	Questions	Marks	Bloom's level	CO Nos.	PO Nos.
Q.1. a)	Explain in detail the concept of God and nature of world as conceived in Hinduism.	(15)	U	1	3
	OR				
b)	Bring out the significance of prayer and worship in Hinduism. Write a note on <i>Samskaras</i> or milestone rites in <i>Hindu Dharma</i> .	(15)	Ap	2	3,7
Q.2. a)	Why is Jainism called a <i>Shramana</i> and <i>Nastika</i> tradition? Discuss at length the Jain calendar.	(15)	An	3	4,7
	OR				
b)	How would you express the concept of life after death and human destiny as mentioned in Hinduism and Jainism?	(15)	An	1	3
Q.3. a)	Elaborate on the main ideas of the scriptures in <i>Buddha Dhamma</i> . What caused the formation of major sects in Buddhism?	(15)	An	3	4,8
	OR				
b)	How would you prove the significance of Dhamma with special reference to Arya satyanis and Arya Astangika marga?	(15)	An	3	3,8
Q.4. a)	Is Sikhism a syncretic faith? Bring out the socio-cultural roots of Sikhism with reference to the teachings of Gurus.	(15)	Ap	2	5
	OR				
b)	In context of fundamental beliefs in Sikhism, examine the concepts of human status, evil and suffering.	(15)	Ap	1	3

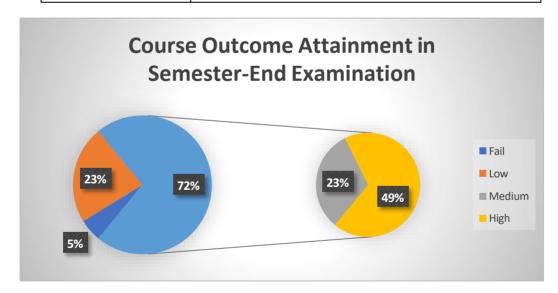
CO/PO	PO 3	PO 4	PO 5	PO 7	PO 8
CO 1	2	-	-	-	-
CO 2	2	1	2	3	-
CO 3	2	1	-	2	1

High- 3; Medium − 2; Low- 1

4. Programme Outcomes and Programme Specific Outcomes POs and PSOs in B.A. Philosophy

On completion of Graduation in B.A. Philosophy the learners shall be able to demonstrate and attain the following graduate attributes at Cognitive, Skill and Attitude levels for the award of the qualifying degree.

Pos	PO Statements		
COGNITIVE LEVEL			
PO3	Think rationally and analyze socio-cultural-legal issues with decisive		
Reasoning ability and	responsibility that promote community welfare.		
Rational thinking			
	SKILL LEVEL		
PO4	Integrate the contextual knowledge in an inter-disciplinary		
Research skill	framework by exercising the analytical skill, research ability,		
	creativity, for employability and collaborating with industries.		
PO5	Facilitate the ability to speak, read, write, listen effectively in Indian		
Effective Communication	languages, other medium of instructions and enhance the use of		
Skill	digital communication tools.		
	ATTITUDE LEVEL		
PO7	Recognize and respect different value systems with a commitment to		
Ethical values	fulfil one's own professional duties and responsibilities.		
PO8	Demonstrate the ability to keep evolving in life-long learning and		
Self-directed Learning	upgrade with the changing global and technological advancements.		
-			



Fail	3
Low	13
Medium	13
High	28
No. of Students appeared for the	
Examination	57

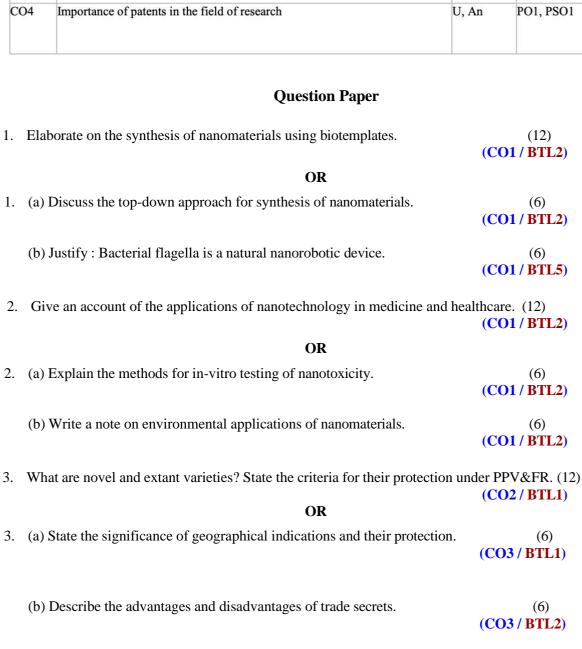
S.I.E.S. COLLEGE OF ARTS, SCIENCE AND COMMERCE (EMPOWERED AUTONOMOUS) SION (WEST), MUMBAI-400 022

Department of Biotechnology Program : MSc Biotechnology

SR.	Details
NO.	
PO1.	Solving Complex Problems:
	Applying the knowledge of various courses learned under the program to break down complex problems to simple components by designing processes for problem solving
	Cognitive Levels: An, Ap
PO2.	Critical Thinking and reasoning ability:
	Equipping to select, create and apply the appropriate tools and techniques through electronic media for the purpose of understanding and analyzing data and drawing inference keeping in mind its limitations and disadvantages
	Cognitive Levels: U, An
PO3.	Research Aptitude:
	Utilizing the acquired contextual knowledge in an interdisciplinary framework. Integrating research-based knowledge and research-based methods involving problem definition, analysis and interpretation of data followed by its consolidation to arrive at valid conclusions
	Cognitive Levels: Ap, An, E, C
PO4.	Proficiency with ICT:
	Facilitating to write and document effectively; make crisp presentations and reports and convey the message/ instructions/findings clearly as well as using ICT tools in analyzing data.
	Cognitive Levels: U, Ap
PSO1.	Understand the need for research and innovation in the field of Biotechnology
	Prepare, plan and execute a research project independently as well as critically evaluate and interpret results
	Cognitive Levels: U, Ap
PSO2.	Practical Applications:
	Design and execute experiments applying the concepts learnt and thereby being able to translate theoretical knowledge to practical knowledge
	Cognitive Levels: Ap, An

SIPSBT41 – Nanotechnology and IPR

CO. No.	Course Outcome of SIPSBT41 Upon completion of this course, the learner will be able to	Cognitive Level	Affinity with PO/ PSO
CO1	The various aspects of Nanotechnology	U, R	PO1, PSO1
CO2	Understand the applications of nanotechnology	U, R	PO1, PSO1
CO3	Use of IPR in the biological sciences	An, U	PO1, PSO1
CO4	Importance of patents in the field of research	U, An	PO1, PSO1



4. Discuss the patentability of biotechnological inventions in India and abroad. (12) (CO4 / BTL2)

OR

4. (a) Outline the process of patenting in India.

(6) (CO4/BTL2)

(b) Elaborate on the assignment and licensing of patents.

(6)

(CO4/BTL2)

5. Write a short note on **any three** of the following:

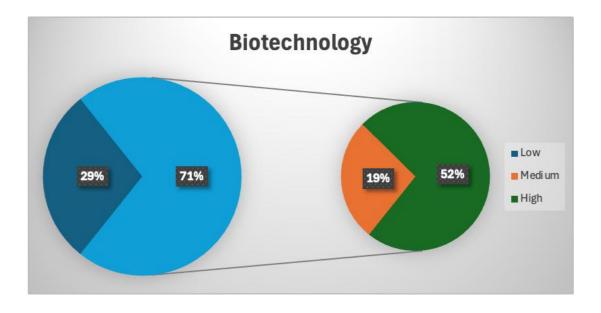
(12)

(CO1/2/3/4 / BTL2)

- (a) Carbon nanotubes
- (b) Ecotoxicity analyses of nanomaterials
- (c) Industrial design
- (d) Patent databases
- (e) Patent applications

Overall analysis

Bloom Taxonomy	1	2	3	4	5	6
Level (BTL)	Remember	Understand	Apply	Analyze	Evaluate	Create
Percentage of Questions	15	77	-	-	8	-



52% of students showed high level of attainment, 19% had medium attainment and 29% had low attainment.

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), SION WEST, MUMBAI – 400 022. SEMESTER END EXAMINATION

Class: MSc Semester: II **Subject: Zoology**

Title: Physiological Processes III Paper code: SIPSZOPHY41

Day: Date: Time:

Maximum Marks: 60

NOTE: 1. Attempt all four questions with the given choice.

2. Figures to the right indicate maximum marks.

Module 1: Comparative Endocrinology Module 2: Basics of Neurobiology Module 3: Physiology of Nervous System Module 4: Sensory system

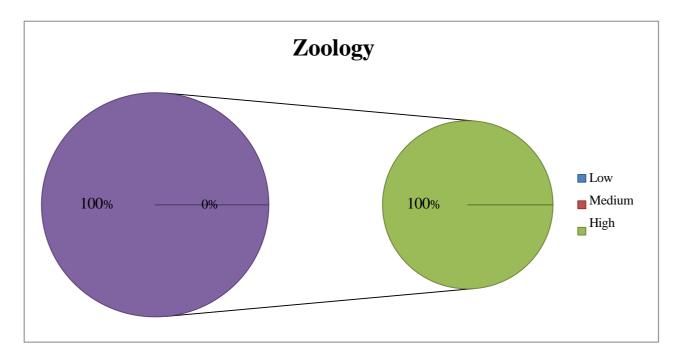
	G	Cognitive	Affinity with		
COs	Statements	Levels	PO nos.	PSO nos.	
CO1	Comparative Endocrinology emphasizes on many complexities of vertebrate and invertebrate endocrine systems at the sub-molecular, molecular, cellular, and at an organismal level of analysis	U, R, An	1,2	1, 2	
CO2	Knowledge of the organization of the nervous system and nerve conduction and fundamental information about the cellular biology and electrophysiological properties of neurons, neuroanatomy	U, R, An	1, 2	1,2	
CO3	Gain insights about the normal functioning of the nervous system in various animal kingdoms.	U, An	1,2	1, 2	
CO4	Gain information about the molecular mechanisms and neural systems used by vertebrates and invertebrates to sense the external and internal world and the comparative approach helps to understand common principles of sensory coding as well as the unique strategies employed to address specific biological needs.	An, R	1,2	1, 2	
PO- Prog	ram Outcome, PSO-Program Specific outcome; CO-Course Outcome;				

Bloom's Taxonomy Levels: R-Remembering; U-Understanding; An-Analysing

Serial	Details of Programme Outcomes (POs)
Number	
PO1	Problem Solving Ability (U, Ap)
(Skill Level)	Apply the knowledge of various courses learned under a program to break downcomplex problems into simple components.
	Adopt and assimilate problem-based learning models and apply one's learning tosolve real life
	problem situations.
PO2	Critical Thinking (U, An, E)
(Skill Level)	Develop critical thinking based on a rationale to identify assumptions, verifying the accuracy and validity of assumptions, and making informed decisions.
	Inculcate the ability of logical reasoning to question the rationale behindconcepts, ideas, and
	perspectives.

Question no.	Comprehension Or Understanding	Application	Analysis	Evaluation Or Judging	Total Marks [Includin g choice]
Q 1	With the help of schematic illustration, discuss the neuroendocrine system in mammals. (7 marks)	Add a note on the function and feedback system of oxytocin and vasopressin (8marks)			15 marks
Q1	In the context of comparative endocrinology, comment on the following: b) Corpuscles of stannius and ultimobranchial bodies (7 marks)		a) Evolution of pineal gland and its role as a biological clock (8 marks)		15 marks
Q 2	With reference to Neurobiology, discuss the basic anatomy and types of neurons. (7 marks)		Add a note on action potential generation and conduction (8 marks)		15 marks
Q 2	In the context of Neurobiology, give an account of the following: a) Synapse classification and conduction. (7 marks)	b) Working mechanism of learning and memory (8marks)			15 marks
Q 3	With the help of diagrammatic representation, illustrate the nervous system of Scoliodon. (15 marks)				15 marks
Q3	In the context of physiology of nervous system, discuss the following: a) Nervous system of rat (7 marks)		b) Compare and contrast the nervous system of Annelids and Arthropoda (8 marks)		15 marks
Q4	With reference to sensory system, give an account of chemoreception. (15 marks)				15 marks
Q4	In the context of sensory system, comment on the following: a) Types of senses and classification of receptors. (8 marks)		b) Electroreception in fish.		15 marks
	(73 marks)	(16 marks)	(31 marks)	(0 marks)	(120) 60
%	60%	13.3%	25.8%	0%	100%

PO and CO Attainment in Semester End Examination



SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (EMPOWERED AUTONOMOUS) SION WEST, MUMBAI – 400 022

SEMESTER END EXAMINATION

Class: SYBA Semester: IV Max marks: 60

Subject: HINDI Paper: II

Course name: MASS MEDIA AND HINDI Course Code: SIUAHIN42

Day:	Date:	Time:
NOTE -	- 1 - ALL QUESTIONS ARE COMPULSORY. 2 - SEPARATE ANSWER SHEET TO BE GIVEN.	

SEMESTER IV

Course Code	Semester	Credits	Lectures/week	Course Name
SIUAHIN 42	4	3	3L	Mass Media and Hindi

Module 1-Mass Media -meaning, definition & scope

Module 2 -development & types of mass media

Module 3 – medium based writing & drafting for mass media lingual characteristics of mass media

Module 4-fundamental rights and RTI

CO No.	Outcomes	Cognitive Level	Affinity PO/PSO
CO1	Remember and understand the	R,U	PO2, PO3 & PSO1
	elements of Mass Media and its History & tradition in Hindi		
CO2	Analyze various aspects of Mass Media and communication	U,An	PO2 & PO3,PSO2
CO3	Understand and analyze the different forms of Mass Media & its utility in larger context	U, An	PO1,PO2, PO4 & PSO2
CO4	Evaluate the social, political, cultural & Psychological impact of Mass Media in rural & urban India & create content suitable to nature of society & the various platforms of Mass Media	An, E & C	PO1, PO2, PO8 & PSO3

प्रश्न -1निम्ननिनित प्रश्न का उत्तर निनिए।

(15)

जिसंचार के स्वरूप पर चचाा करते हुए, उसकी पररभाषाओं पर प्रकाश डािें ?

अथवा इिक्ट्रॉनिक

जिसंचार माध्यमों के स्वरूप की समीक्षा कीनजए ?

प्रश्न -2निम्ननिनित प्रश्न का उत्तर निनिए।

(15)

इंटरिट व मोबाइि के नवकासक्रम को स्पष्ट कीनजए ?

अथवा

दूरदशाि व नसिमा के क्रमगत नवकास पर प्रकाश डानिए ?

प्रश्न - 3निम्ननिनत नवषयों में से ककन्हीं तीि पर रटप्पणी निनिए। (15)

- 1-समाचारपत्र की भाषा
- 2-रेनडयो की भाषा
- 3-साक्षात्कार के प्रमुि तत्त्व
- 4-संवाद की नवशेषताएँ
- 5-फीचर की नवशेषताएँ

प्रश्न -4निम्ननिनित प्रश्न का उत्तर निनिए। (15)

संविधान द्वारा विए गए मौविक अवधकार का विश्लेषण कीविए ?

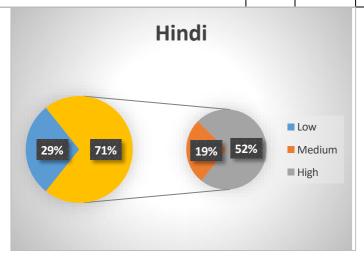
अथवा

'उरी ' विल्म की समीक्षा विखिए ?

Question no.	Comprehension Or Understanding	Application	Analysis	Evaluation Or Judging	Total Marks [With choice]
1- निम्ननिति प्रश्न का उत्तर निनिए। जिसंचार के स्वरूप पर चचाा करते हुए, उसकी पररभाषाओं पर प्रकाश डािें ?	5	5	5	-	15
	अथवा				
1 – इिक्ट्रॉनिक जिसंचार माध्यमों के स्वरूप की समीक्षा कीनजए ?	5	5	5	-	15
2 - निम्ननित प्रश्न का उत्तर निनिए। इंटरिट व मोबाइिके नवकासक्रम को स्पष्ट कीनजए?	8	-	7	_	15

	अथवा						
2 – दूरदशाि व निसेमा के क्रमगत नवकास पर प्रकाश डानिए?	8	-	7		-		15
3-1-निम्ननिनित नवषयों में से ककन्हीं तीि पर रटप्पणी निनिए। 1-समाचारपत्र की भाषा	3	_	2		_		5
3-2 <i>-</i> रेनडयो की भाषा	3	-	2		-		5
3-3 - साक्षात्कार के प्रमुि तत्त्व	3	_	2		-		5
3-4 - संवाद की नवशेषताएँ	3	_	2		-		5
3–5 – फीचर की नवशेषताएँ	3	_	2		-		5
4- निम्ननिनित प्रश्न का उत्तर निनिए। संविधान द्वारा विए गए मौविक अवधकार ं का विश्लेषण कीविए ?	3	4		5	3		15
	अथवा						
4 – उरी ' विल्म की समीक्षा विखिए ?	3	4		5	3		15
MARKS	25	9	2	3	3		60
00	41.67%	15%	38.		5%		100%
Q. No.	Questions		Mar ks	Bloo m's leve	CO Nos	PO Nos.	PSO Nos.
1-	निम्ननिनित प्रश्न का उत्तर निनिए। जिसंचार के स्वरूप पर चचा पररभाषाओं पर प्रकाश डार्रि	ा करते हुए, उसकी ेें ?	15	R,U	1	PO2, PO3	PSO1
1 -	अथवा		15	R,U	1	PO2, PO3	PSO1

	इिक्ट्रॉनिक जिसंचार माध्यमों के स्वरूप की समीक्षा कीनजए ?					
2 -	निम्ननित प्रश्न का उत्तर निनिए। इंटरिट व मोबाइि के नवकासक्रम को स्पष्ट कीनजए ?	15	U,An	2	PO2 & PO3	PSO2
	अथवा					
2 -	दूरदशाि व निसेमा के क्रमगत नवकास पर प्रकाश डानिए ?	15	U,An	2	PO2 & PO3	PSO2
3-1-	निम्ननित नवषयों में से ककन्हीं तीि पर रटप्पणी निनिए। समाचारपत्र की भाषा	5	U, An	3	PO1, PO2, PO4	PSO2
3-2 -	रेनडयो की भाषा	5	U, An	3	PO1, PO2, PO4	PSO2
3-3 -	साक्षात्कार के प्रमुि तत्त्व	5	U, An	3	PO1, PO2, PO4	PSO2
3-4 -	संवाद की नवशेषताएँ	5	U, An	3	PO1, PO2, PO4	PSO2
3-5 -	फीचर की नवशेषताएँ	5	U, An	3	PO1, PO2, PO4	PSO2
4-	निम्ननिति प्रश्न का उत्तर निनिए। संविधान द्वारा विए गए मौविक अवधकार का विश्लेषण कीविए ?	15	An, E & C	4	PO1, PO2, PO8	PSO3
	अथवा					
4 -	उरी ' विल्म की समीक्षा विखिए ?	15	An, E & C	4	PO1, PO2, PO8	PSO3



PO and CO Attainment in Semester End Examination