

SOMAIYA





Somaiya School of Humanities and Social Science

QUESTION PAPERS

BRANCH: Bachelor of Science - Psychology	SEM: II
ATKT	JUN-2025

Sr. No.	Subject	Available
1.	231U78C201 - Physiological Psychology (A/B)	V
2.	231U78I201 – Theatre & Folk Media (AIB)	✓
3.	231U78K201 – Inferential Statistics (A B)	~
	231UV-231U78(202 Psychology of Adoleseent and young Adult (AIB)	
5.	231UV216 Industrial and Organizational Psychology	
6.		
7.		
8.		
9.		
10.		









	April 2025	i.		
Examination:	End Semester Exami	nati	on (UG Pro	grammes)
Programme code: 78 Programme: B.Sc. Psychology		C	lass: FY	Semester: II
Name of the Constituent College	e: S K Somaiya	Name of the Department: Psychological		
Course Code: 231U78C201	Name of the Cou	rse:	Physiologic	cal Psychology
Duration: 2 Hr.	Maximum Marks: 60			
Instructions: 1) Draw neat diag	rams 2)Assume suital	ole d	lata if neces	ssary 3)

Question No.		Max. Marks	CO
Q1 a)	Explain the role of Acetylcholine and Serotonin in neurotransmission	8	COI
b)	Explain the steps in Action potential	7	COI
	OR		
c)	Describe the somatic and autonomic nervous system	8	CO2
d)	Explain the Hemisphere associated with creativity	7	CO2
Q 2 a)	Explain how endocrine gland disorders disrupt normal hormonal balance	8	CO3
	by causing excessive or insufficient hormone production.		
b)	Describe how the endocrine system differs from the nervous system in	7	CO3
	terms of communication and regulation.		
	OR		
c)	Motivation as an explanation for complex behaviour	8	CO4
d)	Explain sexual response cycle	7	CO4
Q 3 a)	Describe reuptake and enzymes involved in Synapse cleaning	8	COI
b)	Explain the Split-Brain Research	7	CO2
	OR		
c)	Describe how the pineal gland influences sleep and circadian rhythms	7	CO3
d)	Explain different types of sexual behavior	8	CO4
Q4	Write short notes (any 3)		
a)	Role of GABA	5	COI
b)	Left Hemisphere	5 5	CO2
c)	Pancreas Gland		CO3
d) -	Type of sleep	5	CO4
e)	Circadian rhythm disruptions	5	CO4







Examination: E	April 202 and Semester Examin		(UG/PG Pr	ogrammes)	
Programme code: 78 Programme: B.Sc. Psychology		C	lass: Y/SY/TY	Semester: II/IV/VI	
Name of the Constituent College	e: S K Somaiya	Name of the Department: Psycho			
Course Code: 231U78C201	Name of the Co	urse:	Physiologic	al Psychology	
Duration: 2 Hr.	Maximum Marks: 60				
Instructions: 1) Draw neat diag	rams 2)Assume suit	able o	lata if neces	sary 3)	

Question		Max.	CO
No.		Marks	
Q1 a)	Explain the mechanism behind an action potential and its role in neural	8	COI
	communication.		
b)	Explain how myelin contributes to the efficient functioning of neurons.	7	COI
	OR		
c)	Explain how hemispheric specialization contributes to the brain's plasticity	8	CO2
	and adaptability		
d)	Describe brain Lateralization in detail	7	CO2
Q 2 a)	Explain abnormalities of major endocrine glands	8	CO3
b)	Describe Pituitary Gland	7	CO3
	OR		
c)	Explain the brain structures that regulate sleep and dreaming, and how	8	CO4
	they function.		
d)	How do various types of sexual orientation manifest in people?	7	CO4
Q 3 a)	Describe how the synapse clears neurotransmitters after a signal has been	8	CO1
	transmitted.		
b)	Explain neuroplasticity and neurogenesis	7	CO2
	OR		
c)	Explain Adrenal and Thyroid endocrine glands	7	CO3
d)	Explain Hunger as a motivation	8	CO4
Q4	Write short notes (any 3)		
(a)	Neurotransmission at the synapse.	5	CO1
b)	The Central Nervous System Damage	5	CO2
e)	Explain in detail the gonads (ovaries and testes)	5	CO3
c)	Different types of Sexual Orientation	5	CO4
d)	The Peripheral Nervous System	5	CO2





Examination	April 202 : End Semester Exam		on (UG Pro	orammes)	
Programme code: 78 Programme: BSc Psychology	, and somester alami		lass: FY	Semester: II	
Name of the Constituent College	Name of the Department: Psycholog				
Course Code:231U78l201	Name of the Cou	ırse:	Theatre an	d Folk Media	
Duration: 2 Hr.	Maximum Marks: 60				
Instructions: 1)Draw neat diag	rams 2)Assume suital	ble da	ata if necess	sary 3)	

Question No.	Case Study/Application-Based Question	Max. Marks	CO
Q1	A psychologist wants to use theatre to address substance abuse and addiction in rural India. (Choose any 2 Folk media of your choice)	15	3
ś	 How can folk theatre be adapted to deliver behavioral change messages effectively? Evaluate the advantages and limitations of using folk art in psychological awareness programs. Propose a script outline for a short folk play on addiction recovery. 		
Q 2	Answer any one of the following:	15	
(*)	(a) Discuss the history of Indian theatre in detail and also discuss		1
	the different phases of Indian Theatre.		2
	(b) Discuss Theatre as a communication tool. State and explain the		2
0.2	forms of communication in theatre.	15	
Q 3	Answer any one of the following:	13	4
	(a) Discuss the challenges and threats to folk media.(b) Explain the differences between Asian Theatre vs Western		
	Theatre and Traditional Audience vs Modern Audience.		2
Q 4	Write short notes: (Any 3)	15	
ζ.	1. Difference between Folk Media and Mass Media.		
	2. Natyashashtra.		4
	3. Contemporary Theatre.		1
	4. Components of Rasa theory.		2
	5. Explain any 2 Audience theories.		1 2







	April 2025				
Examination	: End Semester Examin	ation (UG Pro	grammes)		
Programme code: 78 Programme: BSc Psychology		Class: FY	Semester: II		
Name of the Constituent College	ge: S K Somaiya	Name of the	he Department: Psychology		
Course Code:231U78I201	Name of the Cour	se: Theatre an	d Folk Media		
Duration: 2 Hr.	Maximum Marks: 60				
Instructions: 1)Draw neat diag	rams 2)Assume suitabl	e data if necess	sary 3)		

Question No.	Case Study/Application-Based Question	Max. Marks	СО
Q1	A university psychology department wants to educate rural communities about stress management and emotional resilience. (Choose any 2 Folk media of your choice)	15	3
	 How can folk media be used to educate people about stress and emotional well-being? Compare the impact of live folk performances versus recorded video content for this purpose. Suggest an innovative way to integrate digital media with folk storytelling for wider reach. 		
Q 2	Answer any one of the following: (a) Discuss entire Natyashashtra in detail along with the Rasa	15	1
	theory. (b) Explain the differences between folk media and mass media in terms of communication, engagement, and effectiveness.		2
Q 3	Answer any one of the following:	15	4
	(a) Strengthening folk media (Means and Ways).(b) Explain the 4 Audience theories in detail.		2
Q 4	Write short notes: (Any 3)	15	
	 Role of traditional media in social change. 		4
	2. Rasas (Any 5 rasas with their dominant emotion).		2
	3. Difference between traditional audience and modern audience.		1
	4. Opportunities for Theatre in New Media.		2
	5. Contemporary Theatre.		

ATKT-June-25



April 2025
Examination: End Semester Examination (UG/PG Programmes)

Programme code:
Programme: B.SC Psychology

Name of the Constituent College: S K Somaiya

Course Code:231U78K201

Name of the Course: Inferential Statistics

Duration: 2 Hr.

Maximum Marks: 60

Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)

Question	I								Max.	CO
No.									Marks	
Q1	finds that Pl deviation of an standard mean life of	[A] A man buys 50 electric bulbs of Philips and 50 electric bulbs HMT. He finds that Philips bulbs given an average life of 1500 hours with standard deviation of 60 hours and HMT bulbs give an average life 1512 hours with an standard deviation of 80 hours. Is there is significant difference in the mean life of the two makes of bulbs? At 5% l.o.s [B] From the data given below about the treatment of 250 patients suffering								
	[B] From the from a disease conventions	ase, s	state whetl						8M	Co 2
					No. of	patient				
	Treatment		Favoural		Not Favor		Total			
	New		140		30		170			
	Conventio	nal	60		20		80			
	Total		200		50		250			
	Find chi-sq	aure	at 5% l.o.	S						
	[C] Perform	ı a T	wo-way A		on the	OR given da	ta		7M	Co 1
	Plot of land	A		В.		С	D			
	I	38	3	40		41	39			
	II	45		42		49	36			
	III	4(0	38		42	42			
	Use 5% l.o.s [D] The Mean height obtained from a random sample of size 100 is 64 inches. The standard deviation of the distribution of height of the population is known to be 3 inches. Test the statement that the ,mean height of the population is 67 inches at 5% l.o.s								8M	Co 2
Q 2	[A] For the	set o	of 20 obse	rvatio	ns ∑X=	=1452 ,∑ wness.	X ² =14428	0, Mode=63.7	7M	Co 3
	[B] Calcula	ate th	ne first fou	ır cent	ral mor	nents			8M	Co 3

Tr.	X values	11	12	13	14	15	16	17		
	Frequency	2	9	25	35	20	8	1		
		*			OR				7M	Co 3
	[C] Derive R	Raw an	d Centra	al Mome	ents				8M	Co 3
	[D] State and	d Prov	e Bayes	Theorer	n				01.11	005
Q 3	[A] Find Un	biased	Estimat	tor of Ex	ponentia	d Distribu	tion		7M	Co 4
	[B] Following is the probability distribution, Find values of k, $E(X)$ and $V(X)$									Co 4
	X	-2	-1	()	1	2	3		
	Probabilit	k	2k	I	ζ+0.05	2k+0.05	2k	K	8	
	у									
	[C] A family							ildren are girls ld is a girl	7M	Co 4
	[D] Four job		III,IV,V	are to be	e process	ed on thre	e Machii	nes A,B and C	8M	Co 4
	Jobs		Machine	e A	Machine	e B M	fachine (
	I		14		6	24	4			
	II		17		8	14	4			
	III		18		10	14				
	IV		23		9	9				
	L									
Q.4	Answer any	3 out	of 5						15 M	
	[A] A Smal			st of foll	lowing a	ctivities			100000000000000000000000000000000000000	Co 1
	Activity		Prec Acti	eding vity		Γime(days)			
1	A		-		1	20				
	В		A	Sections No. 10		25				
	C		A			5				
	D		В			15				
	E		C			30				
	F		D			35	oner awater a			
	G	air ar -	Е		29	5				
	H		F,G		10	2				
	i) Draw Network diagram and find critical path and project completion tin									
	ii) Find ES					. <u></u>	# #	NT.		Co 2
					13					002
	[B] suppose we have the following data on the consumer preference of a									

new product collected from the people living in north and south India use test statistics at 5% l.o.s

Co 3

Co 4

	South india	North india	Total
Number of consumers who prefer present product	4		55
Number of consumer who prefer new product	14	38	52
total	18	89	107

[C] Three Time estimate are given for each activity of following project.

Activity	a	m	b
1-2	6	6	24
1-3	6	12	18
1-4 2-5 3-5 4-6	12	12	30
2-5	6	6	6
3-5	12	30	48
4-6	12	30	42
5-6	18	30	54

- i) Tabulate expected time and variance of all activities
- ii) Draw network diagram and total project completion time
- [D] for the following game matrix, determine saddle point using Principles of Dominance.

	V	Player Y	
Player X	I	II	III
I	14	22	14
II	16	-20	-18
III	20	36	24

Find Optimal strategies for both the players

[E] it is observed that 3% of apples in consignment are bad. Find the probability that, in a consignment of 200 apples, the number of bad apple is i) less than 2 ii) only 2 (e⁻⁶=0.0025)

Co 3

Co 4





April 2025
Examination: End Semester Examination (UG/PG Programmes)

Programme code:
Programme: B.sc Psychology

Name of the Constituent College: S K Somaiya

Class: FYB.SC

Semester: II

Name of the Department: Psychology

Course Code:231U78201

Name of the Course: Inferential Statistics

Duration: 2 Hr.

Maximum Marks: 60

Instructions: 1)Draw neat diagrams 2)Assume suitable data if necessary 3)

Question						Max.	CO
No.						Marks	
Q1	[A] A survey of 10000 TV sets revealed that the life in hours of TV picture tubes normally distributed with mean of 1000 hrs and standard deviation of 100 hrs i) How many picture tubes lasted more than 800 hrs? ii) How many lasted between 1000hrs and 1100 hrs? iii) Find the percentage of tubes with life between 800 hrs and 1000 hrs? [B] Following is the probability distribution of number of smart phones				7M 8M	Co 1	
	sold in a sho		obability distri	oution of nun	nber of smart phones		
	Number	p per day	Prob	ability			
	0		K			5	
	1		0.3				
	2		0.15				
	3		0.15				
	4 0.1 5 2k						
	Find k, average number of smart phones sold per day and its variance						
			OR			7).4	C- 2
	[D] For Two	events A	w and Central and B if P(A)=0 at ii) Mutually	0.8 and P(AU	JB)=0.9, Find P(B) if A	7M 8M	Co 2 Co 2
Q 2					rge lot have the	7M	Co 3
			ngth (in kg we				
	578,572,570,568,572,578,570,572,596,544 Test whether the mean breaking strength of the lot may be taken to be						
	578kg weigh			Bui 01 ui 101	may be taken to be		
	[B] A oil con	npany has	explored three		as for possible oil	8M	Co 3
	reserves. The	results of	the test were a		V		
	[Τ		C	Total		
	Strikes	A 7	10	8	Total 25		
	Dry holes	10	18	9	37		
	Total	17	28	17	62		
	0.00 /0.00 (0		erence between	n strikes and	dry holes at 5 % l.o.s		

1	[C] Set up a	nalysis of	variance t	able for the f	ollowing	Гwo Way ANOVA	7M	Co 3
			Varietie	s of seeds				
	Varieties o	f A	varietie	B	С			
	fertilizers							
	W	6		5	5			
	X	7		5	4			
	Y	3		3	3			QC.
	Z	8	:	7	4	t 50/ 1 a a		
				rences are sig		any. the following	8M	Co 3
						arers of electric		
	bulbs:		11					
			Compa	ny A	Compa	any B		
	Mean life(1300		1248			
	S.D (in ho		82		93			
*	Sample siz		100	oina to nurch	100	desire to take a risk		
	5%	id of builds	are you g	onig to purch	ase II you	desire to take a risk		
	250022680	etween the	two distr	icts means st	atistically	significant		
Q3				binomial dist			7M	Co 4
						he two machine A	8M	Co 4
		order AB.		ng time are gi				
	Jobs	1	2	3	4	5		
	Machine A	5	1	9	3	10		
	Machine	2	6	7	8	4		
	B	2	ľ	•				
		sequence	for the jol	bs that will m	inimize th	ne elapsed time T		
				OR				. 0
				oisson distril	oution		7M	Co 1
0.4	[D] State an		yes Theo	rem			8M	Co 4
Q. 4	Answer any		htained fi	rom a random	s cample o	of size 100 is 64	15 M	Co 1
				of the distribu				C0 1
						that the ,mean		
	height of the	e populatio	n is 67 inc	ches at 5% 1.0	o.s.			
				for X and Y is	n the follo	wing game. Also		Co 4
	find the valu	ue of game.		Dlarian V	7			
	Player X	I		Player Y	<u> </u>	III		
-	I	100)	120		150		
	II	100		115		135		
	III	-50		-80		200		
				tore press ten	4	W W W		
		given the	following	details for a	project co	nsisting of 8		Co 3
	activities)matic= (Dove				C0 3
	Activity		Ouration (Days)				

1-2	4
1-3	6
1-5	13
2-3	5
2-4	20
4-6	10
2-3 2-4 4-6 3-6 5-6	6
5-6	16



Co 4

- i) Draw the Network diagram and identify the critical path
- ii) Find EST, EFT, LST, LFT for each activity

[D] You are given the following details for a project with 8 activities:

Activity	a	m	b
1-2	4	6	8
2-3	5	7	15
2-4	4	8	12
3-5	10	18	26
4-6	8	9	16
5-7	4	8	12
6-7	1	2	3
7-8	6	7	8

- i) Draw the network diagram
- ii) Find expected time of project completion along with standard deviation
- iii) What is the probability of the project completing in 55 days? [E] For frequency distribution Bowleys coefficient of skewness is 0.6. the sum of first and third quartile is 100 and median is 38. Find two quartile

Co 2







	April 2025			
Examination: E	nd Semester Examina	tion	(UG/PG Pr	ogrammes)
Programme code: 78		C	lass:	C
Programme: B.Sc. Psychology			Y/SY/TY	Semester: II/IV/VI
Name of the Constituent College	e: S K Somaiya		Name of th	ne Department: Psychology
Course Code: 231U78C202	Name of the Cour Adult	·se:	Psychology	of Adolescent and Young
Duration: 2 Hr.	Maximum Marks	: 60	V =	
Instructions: 1) Draw neat diagr	rams 2) Assume suitab	le d	ata if necess	sary 3)

Qı	uestion No.	7	Max. Marks	CO
Q1	la)	Summarize how information processing approaches explain adolescent	8	CO1
	b)	cognitive development. Analyze the factors that affect adolescent school performance. OR	7	COI
	c)	Discuss what it means to be popular and unpopular in adolescence and how adolescents respond to peer pressure.	8	CO2
	d)	Discuss the challenges ethnic and minority groups face in identity formation in adolescence.	7	CO2
Q:	2 a)	Describe how cognitive development continues in young adulthood.	8	CO3
	b)	Summarize the effects of stress and what can be done about it. OR	7	CO3
	c)	Explain how young adults respond to the need for intimacy and friendship	8	CO4
	d)	Describe how the arrival of children affects a relationship in early adulthood.	7	CO4
Q:	3 a)	Describe dangers adolescent sexual practices present and how these dangers can be avoided.	8	CO1
	b)	Identify the dangers adolescents face as they deal with the stresses of their age.	7	CO2
		OR		
	c)	Describe who attends college today and how the college population is changing.	7	CO3
	d)	Differentiate the different kinds of love.	8	CO4
Q4	•	Write short notes on (any 3)		
	a)	Alcohol use and abuse in adolescence	5	CO1
	b)	Marcia's categories of adolescent identity.	5	CO2
	c)	Sternberg's triarchic theory of intelligence	5	CO3
	d)	Rolesreligion and spirituality in adolescence.	5	CO4
	e)	Culture and autonomy in adolescence	5	CO2





	April 2025			
Examination:	End Semester Examin	nation	(UG Pro	grammes)
Programme code: 78		CI	TX/	C. T
Programme: B.Sc. Psychology			s: FY	Semester: II
Name of the Constituent College	e: S K Somaiya	N	ame of t	he Department: Psychology
Course Code: 231U78C202	Name of the Cour	rse: Psy	ychology	of Adolescent and Young
Duration: 2 Hr.	Maximum Marks	s: 60		
Instructions: 1) Draw neat diagram	rams 2) Assume suital	ole data	if neces	sary 3)

Question	,	Max.	CO
No.		Marks	
Q1 a)	Describe how cognitive development proceeds during adolescence	8	CO1
,	according to Piaget.		
b)	Describe how adolescent egocentrism affects thinking and behavior	7	CO1
	OR	200	
c)	Describe the functions and characteristics of dating during adolescence	8	CO2
d)	Describe what family relationships are like during adolescence	7	CO2
Q 2 a)	Compare and contrast Perry's and Schaie's approaches to cognitive	8	CO3
	development in young adulthood.		
b)	Explain how intelligence is defined today and how life events cause	7	CO3
	cognitive growth in young adults		
	OR		
c)	Describe how gender affects work choices and the work environment.	8	CO4
d)	Explain how infant attachment styles are related to romantic relationships	7	CO4
	as adults.	B.	
Q3 a)	Describe the physical changes in female adolescent's experience as the	8	CO1
	body reaches puberty	2400	
b)	Explain how relationships with peers change during adolescence.	7	CO2
	OR		
c)	Describe the challenges people with physical disabilities face in early	7	CO3
	adulthood		
d)	Compare gay and lesbian parents to heterosexual parents.	8	CO4
Q4	Write short notes on (any 3)	× ·	
a)	Nutritional needs and concerns of adolescents	5	CO1
b)	4 stages of Marcia's categories of adolescent identity.	5	CO2
c)	The origin of Stress	5	CO3
d)	Role of careers in the lives of young adults	5	CO4
e)	Elements of a job bring satisfaction	5	CO4





	April 2025	•		
Examination	: End Semester Exami	natio	n (UG Pro	grammes)
Programme code: Programme:		Cl	ass: FY	Semester: II
Name of the Constituent Colleg	ge: S K Somaiya		Name of th	he Department: Psychology
Course Code: 231UV216	Name of the Cou Psychology	rse: I	Industrial a	and Organizational
Duration: 2 Hr.	Maximum Marks: 60			
Instructions: 1) Draw neat diag	grams 2) Assume suital	ole da	ata if neces	sary 3)

Question		Max.	CO
No.		Marks	
Q1 a)	Describe the emergence & importance of I/O as a field of psychology	8	CO1
b)	List out and explain the approaches to Collecting Job Analysis Information	7	CO1
	OR		
c)	Explain the importance of Job Appraisal in workplaces	8	CO2
d)	Define the Job Performance and methods to assess it	7	CO2
Q 2 a)	Describe need theories of motivation in detail	8	CO3
b)	Explain in detail Justice Theories of Work Motivation	7	CO3
	OR		
c)	Explain Importance Group and Team Concepts	8	CO4
d)	Describe in detail about leadership in the workplace setup	7	CO4
Q3 a)	Explain Job Analysis and describe Job-Oriented Approach	8	CO1
b)	Explain few subjective measures of Job Performance	7	CO2
	OR		
c)	Explain Action theory with examples	8	CO3
d)	Describe in detail about harassment at workplace	7	CO4
Q4	Write Short Notes (Any 3)		
a)	IO Psychology as a Profession	5	CO1
b)	Importance of job selection	5	CO2
c)	Control Theory	5	CO3
d)	Steps in team building at workplace	5	CO4
e)	The Person-Oriented Approach	5	CO1