PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

HERBAL THERAPEUTICS

		HERBAI	In	ERAFEUTICS	
Time	e: Th	nree Hours			Maximum: 50 Marks
		Answe	er AL	A (5 Marks) L questions EQUAL marks	$(5 \times 1 = 5)$
1	(i)	dian medicine and homeopathy 1995 ii) 1996	(ii)	established in 1994 1997	
2		tribal are present in Kera li Irulas li Kanis	(ii)	Tripuri tribes Thodas	
3	(i)	That type of products are shamp a viscous liquid cleaning hair	(ii)	hair care product all of these	
4	(i)	ne uses of turmeric is disorders of the bone i) upper respiratory tract	10-		
.5	(i)	That is the use of triphala churns analgesic hypoglycemic	(ii)	antibacterial all of these	
		Answe	r AL	B (15 Marks) L Questions y EQUAL Marks	$(5 \times 3 = 15)$
	1)	Assume the scope and importa			
t	0)	Is Ayurveda and Siddha same	? - Di	scuss.	
7 a	a)	How are tribes divided in India OR			
t	0)	Discuss the medicinal plants u	sed in	tribals in Tamil Nadi	1.
8 a	a)	How can I promote my herbal OR			
t)	Analyse the list of herb is mos	tly us	sed in oral care. Menti	on it importance.
9 a	a)	Evaluate the medicinal values OR	of Ka	alonji.	
t	0)	Illustrate the regulatory status	of he	rbal drugs in India.	
10 a	a)	Is Unani better than allopathy?	? – Ex	xplain.	
1	10	Determine the significance of	herba	l cosmetics.	

Answer ALL questions
ALL questions carry EQUAL Marks

rks $(5 \times 6 = 30)$

11 a) Classify the medicinal plants.

OR

- b) Elucidate the Indian system of medicine.
- 12 a) How many tribes are there in Tamil Nadu? Analyze.

OR

- b) Is Irula and Thodas a caste or tribe? Discuss.
- 13 a) Enumerate the uses of gum and resins.

OR

- b) Appraise the uses of Thirikadugam powder.
- 14 a) Determine the benefits of ginger lemon and turmeric.

OR

- b) Is homeopathy good or bad for you? Discuss.
- 15 a) Asses the medicinal uses of oils and dyes.

OR

b) Determine the scope and future prospects of herbal drug industry.

Z-Z-Z END

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

		,	
		E-CONTENT D	EVELOPMENT
Ti	me	: Three Hours	Maximum: 50 Mark
		SECTION- Answer AL ALL questions carry	A (5 Marks) L questions EQUAL marks (5 x 1 = 5)
1.		Which is a type of E-Content in the fo (i) Assembled (iii) Accurate	
2.		Which one is not an advantage of E-C (i) Cost effectiveness (iii) No need of technical Knowledge	(ii) User friendly
3.			you can download all E-books of NCERT (ii) Udaan (iv) E-Pathshala
4.		An example of online encyclopedia is (i) Wikipedia (iii) University site	(ii) Mathrubhumi.com (iv) None of these
5.		A media presentation over internet (i) Webcasting (iii) Live Television Broadcast	(ii) Video Conference (iv) offline Presentation
		SECTION - B Answer ALL ALL Questions Carry	Questions
5	a. b.	Discuss Analysis phase. OR Describe organizing documents.	
7	a. b.	Describe an editing element in short. OR Explain about stickers.	
}	a.	Explain Development phase.	

Describe Drawing Line Chart in short.

OR

Explain editing videos.

Describe polling.

b.

a.

b.

Cont...

Discuss Patent for E-Content Development. 10 a.

Explain Plagiarism issues. b.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Elucidate using and customizing templates.

- b. Analyze Saving and Organizing Documents.
- 12 a. Enumerate and describe the key advantages of personalizing the editor's interface for document creation.

OR

- b. Determine the graphics and stickers.
- 13 a. Discuss about Creating Animations.

- b. Determine Finding fonts and using text.
- 14 a. Analyze the collaborating on designs.

OR

- b. Create Websites and surveys.
- 15 a. Compare Do's and Don'ts while developing e-content.

b. Determine steps to obtain License to develop e-content.

Z-Z-Z

Cont...

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

		TOOL DEV	ELOPMENT	
Time	: Thr	ee Hours		Maximum: 50 Marks
			A (5 Marks) L questions EQUAL marks	$(5 \times 1 = 5)$
1	pro	e systematic use of tests to quantify oblems and to make predictions above Psychophysiology) Psychobiological testing	out psychological per (ii) Psychological	analysis
2	(i) (iii) Simple random	(ii) Quota (iv) Convenience	
3	to (i)	is is a technical term do we use to measure? Reliability i) Validity	refer to whether a tes (ii) Norms (iv) Items	t measures what it purports
4	(i)	the full form of the acronym SEM is Structural Equation Method i) Structural Equal Modelling	(ii) Structural Equ (iv) Structural Equ	
5	pe (i)	e interpret a subject's performance rformed on the test. Other people's Reliability i) Validity	e on a test in terms of s performance forms (ii) Norms (iv) Items	how other people have the of the test.
		Answer A	- B (15 Marks) LL Questions rry EQUAL Marks	$(5 \times 3 = 15)$
6	a	Determine the importance of psy OR		ıt.
	b	Elaborate the steps in the measur	rement process.	
7	a	Discuss the concept of content ar	nalysis.	
	b	Compare the different methods of	f sampling.	
8	a	Discuss the principles to be follo	wed in Item generation	on.
	b	Justify progression of item diffic	ulty in test constructi	on.
9	a	Sketch the importance of factor a		
	b	Determine the reasons to use exp	ploratory factor analysis	sis.
10	a	Illustrate the steps in norm devel OR	opment.	
	b	Evaluate the types of bias in psy	chometric analysis.	

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Analyze the properties of scales of measurement.

OR

- b Compare and contrast assessment, testing and measurement.
- 12 a Evaluate the different methods of data collection.

OR

- b Assess the important methods to select and manipulate variables.
- 13 a Examine the different types of reliability.

OR

- b Evaluate the different forms of validity that are commonly applied.
- 14 a State the principles involved in confirmatory factor analysis.

OR

- b Elucidate the concepts of Structural Equation Modeling.
- 15 a Discuss the application of norms in testing and assessment.

OR

b Appraise the best practices in reporting factor analysis.

Z-Z-Z

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

NUTRITION FOR HEALTH AND WELLNESS

			THE WELLINED	4
Time: Th	nree Hours		M	aximum: 50 Marks
	ALL qu	SECTION-A (5 M Answer ALL questions carry EQUA	stions	$(5 \times 1 = 5)$
1.	Exercise is a compon (i) Spiritual (iii) intellectual			
2.	Feeling at peace with wellness dimension? (i) Occupational	yourself after medit	tating is an example	
3.	The principal protein (i) Oryzenin	-	(iii) zein	(iv) glutenin
4.	Element that acts as a (i) Copper	n antioxidant and ha	as synergistic effect (iii) Selenium	with vitamin E. (iv) iron
5.	The release ofin responding to prolo (i) Corticoids	decreases the onged stress. (ii) endorphin		(iv) serotonin
		Answer ALL Questions Carry EQU	stions	$(5 \times 3 = 15)$
6. a	List out any five in Define health.	nportance of nutrition OR	on.	
7. a		l classification of m OR		
8. a		ency disorders of mi		
b 9. a		OR ntial notifications ne		
b		onefits of fitness of h OR ctivity that aid in ma		an individual.
10. a		fluence on health an OR		
b	What are the stress	markers that indica	te poor health statu	s in human?

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11.a As a nutritionist what kind of Healthy changes would you suggest for a healthy life of a home maker?

OR

- b Describe how trends of undernutrition and overnutrition influences wellness of an individual.
- 12.a Classify carbohydrates. Explain the role of polysaccharides aid in gut health.

 OR
 - b Enumerate the role of iron on health.
- 13.a Summarize the millennium development goals of Indians.

OR

- b Comment on the nutrition information need to be interpreted for the judicious choice of food from outlets.
- 14.a Detail the components of physical activity.

OR

- b Explain the nutritional requirement during exercise.
- 15.a Highlight the factors involved in stress development of an individual.

OR

b Narrate the methods adopted in coping of stress.

Z-Z-Z

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

FOOD CHEMISTRY & QUALITY CONTROL

			QUILLIT CONT	KOL
Time	e: Thre	ee Hours		Maximum: 50 Marks
		SECTION- Answer AI ALL questions carry	A (5 Marks) LL questions EQUAL marks	$(5 \times 1 = 5)$
1)		ose the chemical name for fibre Starch (ii) Cellulose	(iii) Fructose	(iv) Sucrose
2)	(i)	ntify the enzymatic browning reac Browning of Sugar (Caramelizati Browning of lemon	tion	Rice during roasting
3)	Whi	ch is used in the food industry to Catalyst (ii) Additives		
4)	(i) .	ation the temperature at which tast Above 30°C Above 40°C	e sensation starts incr (ii) Below 20°C (iv) Below 10°C	reasing
5)	(i)	ne the common adulterant of turm Hydrazine yellow Dye Yellow lake	eric. (ii) Metanil Yello (iv) Yellow 5	w
		SECTION - I Answer AL ALL Questions Carr		$(5 \times 3 = 15)$
6)	a) b)	Discuss on types of water. (OR) Explain the role of pectin in foo		
7)	a)	Narrate a note on heamoglobin. (OR)		
8)	b) a)	Explain the properties of fats. List the major categories of foo	d additives with exam	nple.
	b)	(OR) Explain rheology of dough.		
9)	a)	Prepare an evaluation card for t (OR)		
10)	b) a)	Describe the sensory characteristic Discuss the role of FSSAI.	stics that can be evalu	ated.
	b)	(OR) State the role and function of co	neumer protection	

Answer ALL questions
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11) a) Determine the effect of moist and dry heat on starch. (OR)
 - b) Elaborate on animal protein.
- 12) a) Bring out the changes in pigments during cooking. (OR)
 - b) Enumerate on rancidity and its reversion.
- 13) a) Summarize natural food colorants and their uses. (OR)
 - b) Explain the role of enzymes in food industry.
- 14) a) Sketch down the chemistry and physiology of taste. (OR)
 - b) Discuss on rating methods of sensory evaluation.
- 15) a) Explain any five common adulterants in food and the test to identify it.
 (OR)
 - b) Summarize the role of BIS and AGMARK in food safety.

Z-Z-Z

Cont...

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

DRUGS AND CHEMOTHERAPY

		DRUGS AND CITE	WOTHERALL	
Time:	Three	Hours		Maximum: 50 Marks
		SECTION-A (Answer ALL ALL questions carry	questions	$(5 \times 1 = 5)$
1.	(i) P	the body does to a drug is called? harmacodynamics harmacognosy	(ii) Pharmacothera (iv) Pharmacokine	•
2.	(i) I (ii) I (iii) T	do you mean by bio-transformation Renders the drug more lipid soluble is necessary for all drugs for their e Takes place only in the liver Can be altered by drugs		
3.	(i) A	h drug is used to lower the body ten Antipyretics Analgesics	mperature? (ii) Antiseptic (iv) Disinfectant	
4.	(i) F	re barbiturates are primarily used as Hypnotic Antiepileptic	medicine? (ii) Sedative (iv) Preanaesthetic	medicant
5.	(i) A	is the first-line drug for patients was Acarbose Metformin	ith type 2 diabetes a (ii) Sulfonylureas (iv) Insulin	nd obesity?
		SECTION - B of Answer ALL ALL Questions Carry	Questions	$(5 \times 3 = 15)$
6.	(a) (b)	Illustrate the terms; (i) Pharmacol (OR) Show the nature sources of drugs)	nosy.
7.	(a)	Explain the general principle of d (OR)	lrug action.	
8.	(b) (a)	Explain the antimalarial drugs. C	lassify it.	
	(b)	(OR State any three uses of sulpha pyr	The season of th	azine.
9.	(a)	Discuss the antipyretic drugs.		
	(b)	(OR) Explain the Synthesis of barbiture		
10.	(a)	Illustrate hypoglycemic drugs. (OR)	
	(b)	Explain the antineoplastic drugs.		

(OR)

Answer ALL questions ALL questions carry EQUAL Marks $(5 \times 6 = 30)$

- 11. (a) Enumerate the pharmacokinetics.
 - (b) Classify the drugs based on their chemical structure.
- 12. (a) Assess the mechanism of drug action. (OR)
 - (b) Interpret the biotransformation. Justify the phase I & II biotransformation.
- 13. (a) Predict about the antitubercular drugs. Classify it. Design the synthesis for isoniazid and pyrazinamide.

 (OR)
 - (b) Assess the Antihypertensive agents.
- 14. (a) Evaluate the analgesic drugs.

(OR)

- (b) Assess the CNS depressent drugs.
- 15. (a) Enumerate the recent developments in modern cancer chemotherapy. (OR)
 - (b) Appraise the diabetes.

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

PHYSICS FOR MATHEMATICAL SCIENCES

7	٦.	THE TE	ELEMENT CAL BEILING	CES
1	ıme:	: Three Hours		Maximum: 50 Mark
		SECTION Answer	N-A (5 Marks) ALL questions	
		ALL questions car	Ty EQUAL marks	$(5 \times 1 = 5)$
1		Which law is applicable for take-off		,
		(i) Newtons first law (iii) Newtons third law	(ii) Newtons second	law
2			(iv) None of these	
		Which of the following criteria is us (i) Distance	(ii) Intensity	e system?
		(iii) Magnitude	(iv) Geometry	
3		What is the constant in ideal gas equ		
		(i) Universal gas constant (iii) Temperature constant	(ii) Pressure constant(iv) Boltzmann const	
4		Absorptivity of a body will be equal		
		(1) at all temperatures	(ii) at one particular	temperature
5		(iii) at critical temperature	(iv) None of the above	
3		According to Bohr's atom model the (i) n ²	radius of orbit is directly (ii) 1/n	y proportional to
		(iii) 1/n ²	(iv) n	
		SECTION -	B (15 Marks)	
		Answer AI	LL Questions	
6	a)		ry EQUAL Marks	$(5 \times 3 = 15)$
U	a)	Analyze the principles of Newton' OR	s first law with necessary	y example.
	b)	Discuss the principle of Newton's	third law with necessary	example.
7	a)	Illustrate the concept of conservation	on of momentum	
	1.)	OR		
	b)	Examine the concept of Spherical I	polar coordinates.	
8	a)	Elucidate the concept of Kinetic me	olecular model of ideal g	gas.
	b)	OR Analyze the concept of vander waa	ls equation	
0				
9	a)	Derive the expression of Plank's la OR	W.	
	b)	Elucidate the concept of black body	y radiation.	
10	a)	Illustrate the use of matrix in symm	netric operation	
		OR		
	b)	Discuss in detail about the Lorentz	transformation	

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a) Evaluate the muzzle velocity of bullet of newton's third law.

OR

- b) Determine the expression for the force by Newton's second law of motion.
- 12 a) Analyze the concept dynamic of circular motion.

OR

- b) Elucidate the concept of impulse and moment theory.
- 13 a) Derive the ideal gas equation.

OR

- b) Enumerate the concept of heat capacity of gases.
- 14 a) Examine the black body spectrum with neat sketch.

OR

- b) Formulate the numerical solution to Schrodinger's wave equation.
- 15 a) Analyze the atomic structure of Hydrogen molecule.

OR

b) Elucidate the concept of Bohr atom model.

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

STATISTICAL TECHNIQUES

Time:	Three	e Hours	1	Maximum: 50 Marks
		SECTION-A Answer ALI ALL questions carry E	_ questions	$(5 \times 1 = 5)$
1.	(i)	o types of research data include Recognised and unrecognised data Qualitative and quantitative data	(ii) Structured and unst (iv) Organised and pro	tructured data cessed data
2.	(i) (iii)	e mean and variance for Poisson distrib both are equal mean greater than variance	(iv) mean less than varian	
3	(i)	quantity obtained by applying a certain sample) estimate	(iv) estimator	
4	(i)) 10	(ii) 25 (iv) 16	
5	(i)	dent's t-distribution has (n-1) d.f. who dependent i) increasing	en all the n observations in (ii) independent (iv) decreasing	the sample are
		Answer Al	B (15 Marks) LL Questions Carry EQUAL Marks	$(5 \times 3 = 15)$
6	a h	Define Statistics and point out its imp OR What is a Statistical enquiry?	portance in the field of busi	ness and commerce.
7	a b	Define Normal distribution. OR Ten coins are thrown simultaneous heads.	ly. Find the probability of	f getting at least seven
8	a	Define a consistency and unbiasedne OR		
9	b a	Explain the term (i) point estimation Explain critical region and level of s OR	ignificance.	
10	b a	Explain the various steps to follow in Explain the application of t-distribut OR	ion.	oothesis.
	b	Explain the Construction of t-test for	Single mean.	Cont

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- 11 a Explain a random sample. How do you select a random sample from a finite population?
 - b Explain the various methods of sampling.
- 12 a In a book of 520 pages, 390 typo-graphical errors occur. Find the probability that a random sample of 5 pages will contain no error.

OR

- b Let X is a normal variate with mean 30 and S.D 5. Find the probabilities that (i) $26 \le X \le 40$ and (ii) $X \ge 45$
- 13 a A tree consists of hundreds of apples. 46 apples are randomly chosen. The mean and standard deviation of this instance is found to be 86 and 6.2 respectively. Determine the confidence interval at 95%.

OR

- b. 400 labourers were selected at random from a certain district. Their mean income was 140.5 rupees per month, with standard deviation 25.2 rupees. Find the 95% confidence limits within which the income of the labour community of district is expected to lie.
- 14 a In a large city A, 20 per cent of a random sample of 900 school children had defective eye-sight. In other city B, 15 per cent of random sample of 1600 children had the same defect. Is this difference between the two proportions significant? Also obtain 95% confidence limits.

OR

- b A sample analysis of examination results of 200 school students was made. It was found that 46 students had failed, 68 secured a third division, 62 secured a second division and the rest were place in first division. Are these figures commensurate with the general examination result which is in the ratio of 4:3:2:1 for various categories respectively?
- A random sample of 10 boys had the following I.Q's: 70, 120, 110, 101, 88, 83, 95, 98, 107, 100. Do these data support the assumption of a population mean I.Q. of 100? Find a reasonable range in which most of the mean I.A. values of samples of 10 boys lie.

OR

b Ten persons were appointed in a electrical position in an office. Their performance was noted by giving a test and the marks recorded out of 50. They were given 6 months training and again they were given a test and marks were recorded out of 50.

Employees	A	В	C	D	E	F	G	H	I	J
Before training	25	20	35	15	42	28	26	44	35	48
After training	26	20	34	13	43	40	29	41	36	46

Test at 5% level whether it can be concluded that employees have benefited by the training.

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UNDERSTANDING HUMAN BEHAVIOUR

Maximum: 50 Marks Time: Three Hours

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

 $(5 \times 1 = 5)$

- What is a potential disadvantage of the cross-sectional research design in 1 psychology?
 - (i) Limited generalizability across ages
 - (ii) Difficulty establishing cause-effect
 - (iii) Increased participant attrition
 - (iv) Longer research duration and cost
- What is an illusion? 2
 - (i) An accurate perception
- (ii) A deliberate sensory distortion
- (iii) A misleading perception
- (iv) A vivid waking dream
- What is learning in psychology? 3
 - (i) Unchangeable behaviors
 - (ii) Loss of acquired knowledge
 - (iii) Acquiring new knowledge through experience
 - (iv) Innate behaviors
- What is "facial feedback" in psychology? 4
 - (i) Feedback on expressions
 - (ii) Non-verbal communication technique
 - (iii) Influence of facial expressions on emotions
 - (iv) Security recognition
- In Sigmund Freud's psychoanalytic theory, what is an "erogenous zone"? 5
 - (i) Personality trait region
- (ii) Emotional development stage
- (iii) Cognitive development stage (iv) Pleasure-sensitive body area

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

 $(5 \times 3 = 15)$

How does reasoning contribute to decision-making and problem-solving, and 6 a how can it be improved in daily life?

OR

- What factors influence the quality of survey data, and how can they affect b research outcomes?
- What is telepathy, and can you offer examples of its potential occurrence? 7 a

What is emotional intelligence, and how does it influence personal and b professional life?

8 a What is operant conditioning, and can you illustrate its practical impact on everyday behaviour?

OR

- b What causes forgetting and how does it impact memory?
- 9 a Discuss the contribution made by Canon-Bard's theory of emotions.

OR

- b Is time and stress management related? Justify.
- 10 a Write the characteristics of ego defense mechanisms.

OR

b Justify why projective tests of personality are called so?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Provide an example of your concept formation process and its outcome.

OR

- b Describe a previous interview experience for research or work. Explain your approach and how you handled challenges.
- What's your take on psychokinesis' scientific validity and its impact on psychology? Explain with evidence or reasoning.

OR

- b Evaluate the role of structured processes and spontaneous inspiration in creativity with examples.
- 13 a Discuss the impact of observational learning in daily life, and provide an example of its effective application in acquiring new skills or behaviours.

OR

- b Describe your ideal 'memory palace' and how you would use it for memorization.
- 14 a Share examples of managing frustration in problem-solving and evaluate the outcomes.

OR

- b Evaluate the effectiveness of any one stress management strategy and its impact on different sources of stress.
- 15 a Describe a situation where you used MBTI for insight into personality.

OR

b What is your evaluation of the effectiveness and limitations of semi-projective tests in assessing psychological traits and behaviours?

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TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

		Ī	EVELOPME	NT C	COMMUNICATIO	N	
ime	Three	Hours				Maximum:	50 Marks
			Answe	er AL	A (5 Marks) L questions ry EQUAL marks		$(5 \times 1 = 5)$
1.	(i) I	tify the concept ocial, economic Dysfunctions of Development	that refers to the	he pro	ocess of positive charaspects of a society. (ii) Dominant paras (iv) Communication	nge and imp ligm	rovement in
2.	What communication approach is associated with the Economic Growth Model of development? (i) Integrated development (ii) Intermediate technology (iii) Self-reliance (iv) Cultural factors model						
3.	 Choose the communication model that emphasizes the significant influence of mass media on shaping public opinion. (i) Evolutionary model (ii) Powerful effects model (iv) Popular participation model 						
4.	When did the Gandhi Mehia model play a significant role in India's development history? (i) During the Five Year Plans (ii) During the Etawah experiment (iii) During the SITE project (iv) During the Nilokheri experiment						
5.	5. State one key approach to development communication that emphasizes community involvement and participation. (i) Mass media in modernization (ii) Powerful effects model (iii) Self-reliance (iv) Integrated development						
			SECTIO	N - F	B (15 Marks)		
		AL			Questions QUAL Marks	$(5 \times 3 =$	15)
6.	(a)	Analyze the ke	ey dynamics of		lopment, citing exan	iples.	
	(b)	Evaluate the ro			Growth Model in sha	aping develo	pment policies.
7.	(a)	Discuss the co of Developmen	nt.		aches associated with	the Domina	nt Paradigm
	(b)	Explain the sig	Oi mificance of the		eda Communications	Project in r	ural development.
8.	(a)				nary Model and the		

OR

context of development.

- Justify the relevance of Popular Participation in alternative paradigms of development. (b)
- Illustrate the impact of New Communication Technologies on self-development. 9. (a)
 - Determine the significance of Development Support Communication in addressing (b) basic needs.

10. (a) Prepare a comprehensive plan for a sensitization campaign on a specific development communication issue.

OR

(b) Solve a case study analyzing the dysfunctions of development in a real-world context.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. (a) Discuss the concept of development, highlighting its various dimensions and the evolving understanding of development in contemporary times. How does communication play a pivotal role in this process? Provide examples.

OR

- (b) Examine the significance of development indicators in assessing the progress and well-being of a society. Discuss the dysfunctions that can arise in the development process and explain how communication can address these issues.
- 12. (a) Analyze the dominant paradigms of development, including the Evolutionary Model, Psychological Variable Model, Cultural Factors Model, and Economic Growth Model. How do these paradigms shape communication strategies in the context of development?

OR

- (b) Explore the Powerful Effects Model of mass media and the Diffusion of Innovations theory. How do these models influence modernization efforts and the dissemination of development-related information? Provide relevant examples.
- 13. (a) Conduct a historical analysis of India's development initiatives, focusing on the Gandhi Mehia model, Etawah experiment, Nilokheri experiment, and Five Year Plans. What were the key strategies and outcomes of these projects, and how did communication contribute to their success or challenges?

OR

- (b) Evaluate the effectiveness of experimental projects such as Rural Television, SITE, Kheda Communications Project, and Radio Rural Forum in advancing development objectives. Discuss the role of communication in these initiatives and their impact on rural communities.
- 14. (a) Critically assess alternative paradigms of development, including the Basic Needs Program, Integrated Development, Intermediate Technology, Self-Development, Self-Reliance, and Popular Participation. How do these paradigms align with development communication principles and practices?

OR

- (b) Explore the role of new communication technologies and traditional media in supporting development efforts. How do these tools contribute to self-reliance and community empowerment? Provide examples of successful interventions.
- 15. (a) Reflect on the significance of field visits to Press Clubs, Newspaper Printing Units, Advertising Clubs, and other communication hubs in understanding the practical aspects of development communication. How do these visits contribute to sensitization and documentation efforts?

OR

(b) Discuss the role of street play campaigns in addressing development communication issues. How can participatory approaches, such as street plays, effectively convey messages and engage communities in the development process? Provide examples of successful campaigns.

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

		WEB DESIGN USING	G HTML & JAVA SCR	<u>IPT</u>
Time	: Tl	ree Hours		Maximum: 50 Marks
		Answer	N-A (5 Marks) ALL questions s carry EQUAL marks	$(5 \times 1 = 5)$
1	(i	, 03	ITTP is (ii) 21 (iv) 23	
2	(j		(ii) adding links to webpa (iv) adding voice	age
3	(That is the use of iframe in HTMI to display a webpage within a to display a webpage with ani ii) To display a webpage withou N All the above	web page imation effect	
4	< (What is the output of the following script> var a = 10 + 20 + "5"; ocument.getElementById("democ/script> i) 35 iii) valueerror		
5	(n Javascript, DOM stands for? i) Document Oriented Model iii) Document Object Model	(ii) Document Object M (iv) Document Optimize	
		SECTIO	N - B (15 Marks)	I.
			ALL Questions	$(5 \times 3 = 15)$
6			Carry EQUAL Marks	(5-3 - 15)
6	a	Explain the Client Server mode OR		
	b	Analyze the significance of var		its functions.
7	a	Explain about ordered & unord OR	ered list.	
	b	Illustrate Table tag with its attri	butes.	
8	a	Explain frameset with suitable OR		
	b	Develop a code in html to get y		using forms.
9	a	Explain the various datatypes u OR	sed in JavaScript.	
	b	Discuss the advantages and disc	advantages of embedding	the JavaScript.

10 a How to create date object in JavaScript? Explain any four methods of JavaScript date object.

OR

b Explain alert(), confirm() and prompt() method of window object.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

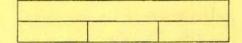
11 a Interpret the various layers along with its protocols.

OR

- b Enumerate the steps to retrieve a webpage from a server by a client.
- 12 a Consider the following while writing the HTML code
 - · Background of page is green
 - · Title of the page is "gaming"
 - Text of whole document is Times new roman
 - · Heading of the page is maroon and arial bold
 - · Image used is "image1.jpg"
 - · border of table is red and of size 2
 - · background colour of table is white
 - · Image used in the table is "war.jpg" and "call.jpg"
 - · Horizontal line colour is red
 - · Bottom link is "game.html"

OR

- b Illustrate with suitable example about the use of table data and table header attributes.
- 13 a Develop the HTML code to create the frames given below.



OR

- b Create a HTML forms to get the username as input, if entered display the response as "Welcome username" after submitting if not entered anything give a response as should not leave as blank.
- 14 a Develop a JavaScript to create forms and to validate any five html form objects for Online user registration process.

OR

- b Elucidate the various datatypes and operators in JavaScript.
- 15 a Create a form for student information. Write a JavaScript code to find total, average, result and grade.

OR

b Analyze any six array objects in Javascript.

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

ELEMENTS OF ENVIRONMENTAL POLLUTION

Tim	e: T	hree Hours	Maximum: 50 Marks
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks	$(5 \times 1 = 5)$
1	(i	What is the atmospheric layer closest to the ground? (i) Mesosphere (ii) Troposphere (iii) Thermosphere (iv) Stratosphere	
2	(i	cid rain is formed due to (i) Acetic acid (ii) Cellulose (iii) Oxalic acid (iv) Sulphuric acid	
3	(i	The main chemical responsible for Eutrophication is i) Potassium (ii) Phosphate iii) Sodium (iv) Carbon	
4	(i	Iumus is a substance present in (i) A Horizon of soil (ii) B Horizon of soil (iii) C Horizon of soil (iv) E Horizon of soil	
5	(i	iogas consists mainly of Ammonia (ii) Hydrogen sulphide ii) methane and carbon dioxide (iv) Ethane and carbon dioxide	lioxide
		SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks	$(5 \times 3 = 15)$
6	a	What are limiting factors in an ecosystem? OR	(
	b	Define point source pollution with an example.	
7	a	How fertilizers act as pollutants? OR	
	b	Differentiate primary and secondary air pollutants.	
8	a	Differentiate between BOD and COD. OR	
	b	Explain why eutrophication occurs in coastal waters.	
9	a	Briefly discuss the concept of phytoremediation. OR	
	b	What are the causes for soil acidification in India?	

22TDCESPT Cont...

List out the sources and effects of microplastics. 10 a

How composting is done? b

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry **EQUAL** Marks $(5 \times 6 = 30)$

11 a Explain the concept of SDGs and any three goals related to sustainable environment.

OR

- b Illustrate with examples the interaction between biotic and abiotic components of a terrestrial ecosystem.
- 12 a How air pollution affects human health?

- b Why vehicular pollution is regarded notorious in India?
- 13 a Determine the schematic method to treat organic load in the wastewater.

- b Prescribe the BIS and WHO standards for drinking water.
- 14 a Elucidate the bioremediation techniques for wastewater treatment.

- b Formulate the treatment methods for oil refinery wastes.
- 15 a Analyze the composition of biomedical wastes and the treatment strategies.

b Construct and explain the pyrolysis processes.

Z-Z-Z

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

MICROBIAL WORLD

Maximum: 50 Marks Time: Three Hours SECTION-A (5 Marks) Answer ALL questions $(5 \times 1 = 5)$ ALL questions carry EQUAL marks Gram positive bacteria are usually more susceptible to 1 (ii) Tetracycline (i) Streptomycin (iv) Ampicillin (iii) Penicillin Substrate used by microbes to produce SCP includes 2 (ii) Industrial wastes (i) Methane gas (iv) All the above (iii) Agricultural wastes Which of the following gastroenteritis viruses can spread by air? 3 (ii) Rotavirus (i) Sapovirus (iv) Astrovirus (iii) Norovirus The term gnotobiotic refers to 4 (i) Germ contaminated animals (ii) Germ free animals (iv) Bacteria living in oral cavity (iii) Animal with normal flora Which of the following is not a product of cellulose degradation? 5 (ii) CO₂ (i) Glucose (iii) Water (iv) nitrogen gas SECTION - B (15 Marks) Answer ALL Questions $(5 \times 3 = 15)$ ALL Questions Carry EQUAL Marks Discuss the cell wall composition of Gram positive bacteria. 6 b Explain the virus symmetry. Comment on Spirullina as SCP. 7 a OR Draw the flow chart explaining the process wine production. b How to enumerate microbes from air? 8 a List out water borne pathogens. Add a note on its control measures. b What is commensalism? Explain normal flora of skin. 9 a OR Give a brief on Candiosis and its control measures. b Comment on effect of microbial consortia for cellulose degradation. 10 a

Explain the economic importance of fungi.

b

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Write a essay on general characters of fungi.

OR

- b Illustrate the working principle and function of bright field microscope.
- 12 a Give an account on microbial spoilage of fruits and vegetables.

OR

- b Describe the industrial production and purification of vitamin B_{12} .
- 13 a Explain municipal solid waste treatment.

OR

- b Discuss Rhizobium as N2 fixing bio-fertilizer.
- 14 a Give a brief account on host-microbes interaction.

OR

- b List out respiratory infections, causative agents and their control measures.
- 15 a Write an essay on economic importance of algae.

OR

b Discuss bioremediation. Add a note on its advantages over pollution control.

Z-Z-Z

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

DIAGNOSTICS AND PLANT THERAPEUTICS

	DIAGNOSTICS AND PLANT THERAPEUTICS
Time	e: Three Hours Maximum: 50 Marks
	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)
l	Which of the following anticoagulant is commonly used for collecting blood samples for hematology tests? (i) Sodium citrate (ii) Sodium chloride
	(iii) Potassium sulfate (iv) Calcium carbonate
!	Which substance is typically tested in urine to check for diabetes mellitus? (i) Urea (ii) Acetone (iii) Albumin (iv) Bilirubin
	Which secondary plant product is commonly found in the bark of trees and is used in the treatment of fever and pain? (i) Tannins (ii) Alkaloids (iii) Flavonoids (iv) Terpenoids
	Which plant is known for its potential to lower blood sugar level? (i) Lavender (ii) Cinnamon
	(iii) Eucalyptus (iv) Chamomile
	Which natural antioxidant compound is commonly found in green tea and is known for its health benefits?
	(i) Resveratrol (ii) Quercetin (iii) Catechins (iv) Curcumin
	SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)
a	laboratory.
b	OR Why is proper specimen preservation is crucial in a clinical lab? How can it be achieved effectively?
a	function?
b	OR What does the enzyme AST indicate when measured in blood, and which organ is primarily associated with it?
a	Explain the principle behind High-Performance Thin-Layer Chromatography (HPTLC) and its significance in plant drug analysis.

Discuss the importance of screening techniques in the identification of potential

medicinal properties in plant extracts.

9 a How does green tea (Camellia sinensis) exhibit potential anti-cancer effects, and which active compounds are responsible?

OR

- b Explain how fenugreek (Trigonella foenum-graecum) and cinnamon (Cinnamomum verum) exert their hypoglycemic effects, including their active components and mechanisms of action.
- 10 a List and briefly explain three key parameters addressed by WHO guidelines for quality standardization of herbal products.

OR

b Describe the primary method of preparing an herbal decoction, and provide an example of a situation where it might be used.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Describe the process of specimen collection, preservation, storage, and transport in a clinical laboratory.

OR

- b Discuss on two common biological hazards that laboratory personnel may encounter.
- 12 a Determine the role of bilirubin in the body and its significance in assessing liver function. How do elevated bilirubin levels relate to liver diseases?

OR

- b A patient's liver function tests reveal elevated levels of Aspartate Transaminase (AST) and Alanine Transaminase (ALT). Explain the potential implications of these findings on liver health. What conditions or factors could contribute to elevated AST and ALT levels?
- 13 a Explain the principle and applications of Gas Chromatography-Mass Spectrometry (GC-MS) in the analysis of volatile compounds in plant materials. Provide an example of a volatile compound.

OR

- b Elaborate the concept of bioassay-guided fractionation in the isolation of active components from plant extracts. Provide a step-by-step overview and its relevance in the pharmaceutical industry.
- 14 a Describe the hepatoprotective mechanisms of any two medicinal plants and its potential applications in liver health.

OR

- b Provide the names of three medicinal plants recognized for their potential anti-cancer properties and briefly describe a key mechanism through which they exert their anti-cancer effects.
- 15 a Construct on the concept of synergy in herbal formulations and how it can enhance the effectiveness of herbal remedies.

OR

b Describe the process of making herbal oil extracts and provide an example of an herb commonly used for this purpose.

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

		(Common to PG Programmes)
		FASHION & VISUAL MERCHANDISING
Time:	Thre	ee Hours Maximum: 50 Marks
Time.	1111-	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)
1	Sho	ort term forecasting is usually done for and is made based on routine
1	tren (i)	A week One or two years (ii) One week to five weeks (iv) Five years
2	des	oose the elements of fashion design which create shapes and spaces in any sign that forms all the other elements. Line (ii) Form (iii) Dots (iv) Value
3	(i)	hich of the following refers to a purchase decision that does not involve any nscious planning? Limited decision making i) Impulse buying (ii) Repeat purchase (iv) Impersonal decision
4	att (i)	esentation of a store and its merchandise in such a manner that will attract the tention of the potential customer is known as Attractive merchandising (ii) Imaginary merchandising ii) Effective merchandising (iv) Visual merchandising
5	(i)	Thich type of lighting provides illumination for designated display areas? (ii) Secondary lighting (ii) Secondary lighting (iv) All the above
		SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)
6	a	Analyze how forecasting is helpful in creating fashion brand. OR
	b	Discuss the colour theory.
7	a	Illustrate the types of design for fashion. OR
	b	Explain the application of emphasis and harmony in fashion clothing.
8	a	Illustrate the styling for thin and hourglass figures. OR
	b	State the psychological aspects used in fashion designing.
9	a	Recommend a suitable display settings for a multi-branded clothing store. OR OR one can consider when setting up a window display.
	b	Discuss some of the things you can consider when setting up a window display.
10) a	Analyze the purpose of incandescent lighting and halogen lighting in a fashion story OR
	b	Compare promotional and informational signage.

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Summarize the elements of fashion trend forecasting.

OR

- b Elucidate the application of fashion and colour in clothing.
- 12 a Discuss the techniques used for optimizing space in a fashion store.

OR

- b Explain the application of line in visual merchandising with suitable sketches.
- 13 a Enumerate the stages involved in fashion life cycle for the promotion of a product.
 - b Identify the design preferences of the customer based on the latest trends.
- 14 a Analyze the display design basics in detail.

OR

- b Summarize the scope of visual merchandising.
- 15 a Infer the ultimate purpose of lightings in a fashion store and give its types.

OR

b Explain the following

i) Marquees ii) Planters.

Z-Z-Z

Cont...

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

DEVOPS METHODOLOGY AND TOOLS

Maximum: 50 Marks Time: Three Hours **SECTION-A (5 Marks)** Answer ALL questions ALL questions carry EQUAL marks $(5 \times 1 = 5)$ Who is the father of DevOps? 1 (ii) Gene Kim (i) Patrick Debois (iv) Bridget Kravchenko (iii) David Farley What is Maven? 2 (ii) A Java framework (i) A Java library (iv) An IDE (iii) A build tool Jenkins is a ----- tool. 3 (ii) continuous integration & delivery (i) bug tracking (iv) software development platform (iii) project management Pipeline in Jenkins refers to 4 (i) A set of plugins that provide additional functionality to Jenkins (ii) A series of automated steps that build, test and deploy software (iii) A graphical user interface for managing Jenkins (iv) A feature that allows user to create ad manage Jenkins jobs Kubernetes Pod means 5 (ii) A unit of deployment in kubernetes (i) A group of containers (iv) A virtual machine (iii) A network segment SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$ Produce the principals of Devops. a. Illustrate the ways to use SSH for GIT commands. b. Analyze how maven plugins are applied? 7 a. OR Explain the notations behind the Maven build lifecycle. b. Explain the two types of Jenkins. 8 a. Classify the ways for creating database in Jenkins. b. Discuss the benefits of using Jenkins pipeline. a. Explain how to send notifications in Jenkins? State the main components of kubernetes cluster. 10 a. Explain pods in kubernetes.

b.

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Interpret the track for DevOps in the current scenario.

OR

- b. Predict the features of GitHub forks.
- 12 a. Create an appraisal note on "Maven POM".

OR

- b. Differentiate the ways of using Repositories by Maven-External Dependency".
- 13 a. Demonstrate the method of configuring Jenkins.

OR

- b. Develop an appraisal note on Jenkins authorization.
- 14 a. Create your own simple Jenkins pipeline.

OR

- b. Compile the ways of managing plugins in Jenkins.
- 15 a. Analyze the architecture of kubernetes.

OR

b. Make a model for kubernetes networking.

Z-Z-Z

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

BUSINESS INTELLIGENCE AND ANALYTICS

Time: Three Hours Maximum: 50 Marks

		SECTION-A Answer ALI					
		ALL questions carry E		CS	$(5 \times 1 = 5)$		
1	b (i	The statements prepared to indicate the provision of the statements is called i) Trial balances iii) Bank reconciliation statements	(ii) Finat	s, and financial ncial statements of the above			
2	(Basic objective of cost accounting is i) Tax compliance iii) Cost ascertainment		ncial audit			
3	(What is the main objective of management i) To identify and analyze the result of be ii) To study business transactions iii) To check and maintain accounting re iv) To remind the amount due to custom	usiness oper cords	g? ations			
4		is the buying and selling of function is used to add the values in a range (i) Count() (ii) Sum()			gh Which (iv) Sumif()		
5		Total number of Ledgers, Groups, Entrie (i) Company Information (iii) Statistics	(ii) Tall	shown from y Audit counts Informa			
		SECTION - Answer AL ALL Questions Carry	L Questions	3	$(5 \times 3 = 15)$		
6	a	What is accounting? Explain the object OR		ounting?			
	b	Discuss the different accounting conc	epts.				
7	a	OR					
	b	During the year 2020, X Ltd., produce the expenses: Particulars	ed 50,000 ur	Amount (Rs)			
		Stock of raw materials on	1.1.2020	10,000			

Particulars	Amount (Rs)
Stock of raw materials on 1.1.2020	10,000
Stock of raw materials on 31.12.2020	20,000
Purchases	1,60,000
Direct wages	75,000
Direct expenses	25,000
Factory expenses	37,500
Office expenses	62,500
Selling expenses	25,000

You are required to show a Cost Sheet showing cost per unit and total cost at each stage.

8 a Explain the scope and objectives of Management Accounting.

OR

- b Describe the Skills Required to Become an IT Business Analyst.
- 9 a Illustrate the functions of Excel in accounting.

OR

b Explain the procedure to create dropdown lists in Excel.

10 a Explain Tally and its applications.

OR

b Explain the procedure for company creation in Tally.

SECTION -C (30 Marks) Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$

The following are some of the balances extracted from the ledger of Mr.Sundaram as on 31st December 2016. Prepare a trading account.

Stock 1.1.2016 12, 500

Purchases 100,000

Sales 150,000

Returns outwards 5,000

Returns inwards 10,000

Salaries 4,400

Wages 7,500

Rent 2,750

Carriage inwards 2,500

Carriage outwards 750

Power, coal, gas 1,000

Stock on 31.12.2016 was valued at RS. 14, 000.

From the following information prepare cost sheet

Particulars	Amount (Rs)
Direct materials	1,00,000
Direct Wages	25,000
Direct expenses	5,000
Wages for foreman	2,500
Electric power	500
Lighting - Factory	1,500
Lighting - Office	500
Rent - Factory	5,000
Rent - Office	2,500
Salaries to salesman	1,250
Advertising	1,250
Income tax	10,000
Sales	1,89,500

- 13 From the following data, Find out
 - i. Gross profit ratio
 - ii. Net profit ratio
 - iii. Return on total assets
 - iv. Inventory turnover

Particulars	Amount	Particulars	Amount
Sales	2520000	Fixed assets	1440000
Cost of sales		Net worth	1500000
Net profit	360000	Debt	900000
Inventory	800000	Current liabilities	600000
Other current assets	760000		30000

- 14 What is an Excel Function? List out the Most Frequently Used Functions in Excel.
- 15 Explain the accounting vouchers used in Tally.

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

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(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

	SETTING UP OF BUSIN	NESS ENTITIES
Time: T	Three Hours	Maximum: 50 Marks
	SECTION-A (5 Answer ALL quantum ALL questions carry EQ	uestions UAL marks $(5 \times 1 = 5)$
1.	The structure in which there is a separaticalled (i) Sole proprietorship (iii) Company	on of ownership and management is (ii) Partnership (iv) All business organization
2.	(iii) Two designated partners	(iv) At least seven designated partners
3.	(iii) Not-for-profit enterprises	(iv) Small-scale enterprises
4.	What does ZED stand for in the context manufacturing? (i) Zero Defect Zero Effect (ii) Zero Effect Zero Defect (iii) Zero Effectiveness Zero Defectiven (iv) Zero Delays Zero Effect	
5.	What is the full form of GST? (i) Goods and Supply Tax (iii) General Sales Tax	(ii) Goods and Services Tax (iv) Government Sales Tax
	SECTION - B (Answer ALL (ALL Questions Carry I	Questions $(5 \times 3 = 15)$
6. a.	State the important privileges available (OR)	
b.	Discuss the types of forms of business	organizations.
7. a.	Sketch out the persons that who cannot partnership. (OR)	
b.	Explain about limited liability partners	hip in very short.
8. a.	How does a person determine whether (OR)	
b.		
9. a.	What are the classifications of enterprise (OR)	
b.	State the objectives of A Scheme for F	Promoting Innovation, Rural Industry &

Entrepreneurship (ASPIRE).

Cont...

10. a. How many taxes are included in GST?

(OR)

b. Who is eligible for PF?

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- a. Discuss the characteristics of the cooperative form of organization. Also, describe briefly different types of cooperative societies.
 - b. What are the factors that affect the choice of an organization?
- 12. a. Enumerate the steps in registration of limited liability partnership.
 (OR)
 - b. Elucidate the characteristic features of limited liability partnership.
- 13. a. Why businesses plan important and state the contents of good business plan?
 - b. Enumerate the different types of Startup capital.
- 14. a. State the list of MSME schemes in India.

(OR)

- b. State the Benefits offered by MSME Registration to the Small Scale Units.
- 15. a. State the advantages of GST.

(OR

b. Bring out the benefits available to employees under ESI Act.

Z-Z-Z END

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

EXPORT MANAGEMENT

Time	: Thr	ee Hours	Maxim	num: 50 Marks
		Answer A	N-A (5 Marks) ALL questions rry EQUAL marks	$(5 \times 1 = 5)$
1.	(i)	e exporter gets from Do IEC number) Aadhaar number	GFT. (ii) PAN number (iv) Credit number	
2.	(i)	ho heads the department of impo GOI i) WTO	ort export in India? (ii) DGFT (iv) None of the Abov	re
3.	(i)	ne CHA is also known as C&F agent i) Customs official	(ii) Consignor (iv) Shipping compan	у
4.	(i) (iii	atension period of credit for expo 180 days i) 220 days	(ii) 90 days (iv) 270 days	
5.	For direct export the packing credit should normally be granted only against (i) A letter of credit (ii) Firm order (iii) Export license (iv) A letter of credit or firm order			
		Answer	<u>N - B (15 Marks)</u> ALL Questions Carry EQUAL Marks	$(5 \times 3 = 15)$
6.	a. b.	Show IEC and their role in Exp OR State the Objectives of Foreign		
7.	a. b.	Discuss the role of Export Pron OR What is EPCG? Explain its ber	notion Council.	·
8.	a.	Assume the freight forwarders OR	and their importance in ex	kport business.
9.	b. a.	Classify 3PL service providers Analyze the advance payment OR		ade.
	b.	Explain various risks associate		nyment systems.
10	. а. b.	Discuss the marketing Strategi OR Illustrate the uses of HS code		

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. a. Discuss Role of Export business in Indian Economy.

- b. Analyze the purpose of DGFT in Export.
- 12.a. Design the Foreign Trade Policy and their features.

- b. Determine the functions of Commodity Boards in detail.
- 13. a. Justify the role of service providers in EXIM transaction.

- b. Categorize the Exporters in India? Also give a detailed explanation.
- 14. a. Elucidate the methods of payment using in foreign trade transaction.

- b. Interpret Letter of Credit and their types.
- 15 a. Develop the process of starting export business in India.

b. Classify the Export Goods in India.

Z-Z-Z

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

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(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

T

		SHARE TRADING	G OPERATIONS	
ime:	Three F	Hours		Maximum: 50 Mark
		SECTION-A Answer AL	L questions	$(5 \times 1 = 5)$
1.	Buying	g low and selling high, making a	a large capital gain is	associated with
		estment ambling	(ii) Speculation (iv) Arbitrage	
	(i) RB		(iii) byelaws	ige. (iv) Director
3.	Depos (i) Buy	itory system reduces time for _ yer (ii) transfer	of securities. (iii) seller	(iv) process
4.		appointed as Registrar, registrar BI (ii) BSE	tion with (iii) NSE	is essential. (iv) OTCEI
5.	New i	ssue market deals with cising (ii) new	securities. (iii) High price	(iv) low price
		SECTION - Answer AL ALL Questions Car	B (15 Marks) L Questions ry EQUAL Marks	$(5 \times 3 = 15)$
6.	(a)	What are the principles of inve		
	(b)	Write a short note Indirect Sec		
7.	(a)	Distinguish between money m Or		
	(b)	Explain the various new instru		new issue market.
8.	(a) (b)	Discuss the functions of stock Or Explain the benefits of listing		
9	. (a)	Write a note on Depository pa		
	(b)	Or Describe the advantages of de	epository system.	
1	0. (a)	Describe the different types o		
	(b)	How does SEBI protect the ir	nterest of investor?	

Answer ANY THREE questions

ALL questions carry EQUAL Marks $(3 \times 10 = 30)$

11. How will you measure risk?	11	7 . El 4 E	How	will v	vou	measure	risk?
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- 12. Explain the various new instruments introduced in the capital market.
- 13. Discuss the salient features of NSE in the capital market.
- 14. Discuss the drawbacks of the depository system and suggest measure to make it an efficient one.
- 15. Explain the various factors influencing the share price.

Z-Z-Z

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

		DESIGN THINK	ING AND INNOVATION	
T	ime	e: Three Hours		Maximum: 50 Marks
		Answe	ON-A (5 Marks) or ALL questions carry EQUAL marks	$(5 \times 1 = 5)$
1		Design Thinking is: (i) Thinking about Design (ii) Designing ways in which peo (iii) Asking users to solve problem (iv) Defining, framing, and solving	ple think	
2		What are the steps of the design of the steps of the design the steps of the design the steps of the design the steps of the steps	hinking process? Create > Test Prototype > Test ment > Produce > Test	
3		Design Thinking typically helps in (i) Innovation (iii) Financial Planning	(ii) Data Analytics (iv) Operational Efficiency	
4		What is the first step in the Design (i) Empathise (iii) Ideate		
5			(ii) Define (iv) Empathise	
			N - B (15 Marks)	
			ALL Questions Carry EQUAL Marks	$(5 \times 3 = 15)$
6	a	Infer Cognitive Creativity.		
	b	OR Enumerate the concept of design	n thinking.	
7	a	Infer the term mind mapping.		
	b	OR Examine brainstorming and reve	erse brainstorming.	
8	a	Demonstrate the concept of conv	verting need into demand.	
	b	Infer a note on basics of service	Design.	
9	a	Examine the term Innovation. OR		
	b	Infer the characteristics of Desig	n innovation process model.	

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Cont...

10 a Enumerate how design thinking is applied to solve business problems.

b Infer the meaning Design activism.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Analyse the principles of design thinking.

OR

- b Enumerate the need for design thinking.
- 12 a Illustrate cause and effect diagram.

OR

- b Interpret a note on design thinking techniques.
- 13 a Infer the use of design thinking in service sector.

OR

- b Explain the principles of service design thinking.
- 14 a Analyze the different types of innovation frame work.

OR

- b Illustrate the role of innovation and creativity in an organization.
- 15 a Infer how design thinking can be applied to solve social problems with an example.

OR

b Elucidate on business models.

Z-Z-Z