BPharm Semester – VIII, End Semester Examination – July 2021 PHA-BP810ET; Pharmacological Screening Methods (Theory)

Da	te: 1	2-07-2021 Duration: 2:30 pm to 4.30 pm (Through MS teams) Max.	Marks: 50
	I M	Iultiple Choice Questions (MCQs) 20 Q × 1 mark	= 20 marks
	1	As per CPCSEA, submission of research protocol for permission to perform animal experiments is done using:	1 mark
		Form A Form D	
		Form B	
		Form C	
	2	phase in a female rat's estrous cycle is characterized by a receptivity to a male and to mating.	1 mark
		Metestrus	
		Estrus	
		Proestrus	
		Diestrus	
	3	Trio mating in animal breeding techniques involves mating:	1 mark
		Upto four females to one male	
		Two males to one female	
		Upto four males to one female	
		Two females to one male	
	4	is the depth of anesthesia required to perform surgical procedures in animals	1 mark
		while using ketamine and xylazine as a general anesthetic.	
		Stage of analgesia	
		Stage of excitation	
		Stage of tolerance	
		Stage of asphyxia	
	5	Knock-in animals are developed by:	1 mark
		Inactivation of a specific gene	
		Addition of extra copies of endogenous genes	
		Introduction of a foreign gene	
		Replacement using mutant gene	
	6	As per GLP practices, what should you do if a mistake happens while entering raw data?	1 mark
		Preserve the original data while including the correct entry	
		Erase the original data and update with the correct entry	
		Start fresh as mistakes should not occur in raw data sheet	
		Leave the mistake as is and continue with other entries	
	7	control is used to mimic a procedure or treatment without the actual use of	1 mark
		the procedure or test substance.	
		Nocebo	
		Negative	

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	Sham		
	Vehicle		
8	waves	s are used to identify emotional stress in adults such as frustration or	1 mark
	disappointmen	nt.	,
	Delta		
	Theta		
	Beta		
	Alpha		
	F		
9	Anomorphine	e induces a stereotyped behavior in rats, characterized by licking, snif	ffing 1 mark
		in a repetitive, compulsive manner, which is an indication of striatal	
	-	ulation.	
	dopaminergic		
	glutaminergic		
	GABAergic		
	serotonergic		
	scrotoffergie		
10	Aqueous hum	nor is produced by the	1 mark
10	trabecular me	-	
	iris	Silwork	
	Schlemm's ca	nal	
	ciliary body	liai	
	chiary body		
11	Splenic strip	of cat is used to assess drugs for activity.	1 mark
11	parasympatho		
	sympatholytic		
	parasympatho		
	sympathomin	•	
	Sympamomm	ietic	
12	Anti-sialagog	ue activity of can be assessed using pilocarpine-induced	1 mark
12	salivation in r		1 1110411
	nicotine	audits.	
	ephedrine		
	•		
	atropine		
	yohimbine		
13	Infiltration on	naesthetics are confirmed by the failure to react to pin pricks inside th	ne 1 mark
13			1 Hittik
		on the back of	
	Beagle dogs	u hamatara	
	Golden Syrian		
		White rabbits	
	Dunkin-Harti	ey guinea pigs	
1.4	In algorouses	method to study the action of diuretics, is used as a marker	to 1 mark
14			1 mark
	assess gioinei	rular filtration rate.	

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	inulin		
	vasopressin		
	p-aminohippi	urate	
	sodium chlor	ide	
15		ding assay performed using cerebral cortex homogenate obtained from s used to screen	m 1 mark
	proton pump		
	PGE1 analog		
	H ₂ receptor b		
	antacids	TOCKETS	
16	Konzett-Röss	sler method is used to assess activity.	1 mark
10	anti-inflamm		
	bronchospasi	•	
	anti-tussive	Hotytic	
	antihypertens	rive	
	antinypertens	5170	
17	~ .	createctomy is not performed in rats to induce insulin dependent diabe	etes 1 mark
	mellitus		
		ce of gall bladder	
		f vomiting center	
		nce of insulin antibodies	
	due to presen	nce of diffused pancreas	
18		, acts on beta cells to produce hyperglycemia.	1 mark
	1	nannel blocker	
		nnel activator	
		nannel activator	
	calcium chan	inel blocker	
19	In SRR assay	y, is used to fix the cells to the tissue culture plates for estimate	ation 1 mark
17		ture protein content.	
	tribromoanis		
	thiobarbituri		
	trichloroanis		
	trichloroacet		
	tromoroador		
20			ng to 1 mark
	skin papillon		
		ecanoyl-phorbol-13-acetate	
	_	z[a]anthracene	
	1,2-dimethyl	•	
	benzo[a]pyre	ene	

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II Short Answers $6 \text{ Q} \times 5 \text{ marks} =$		
1	Elaborate on the test guideline for single oral dose acute toxicity study.	5 marks
2	Explain one <i>in vivo</i> model each for thermal and chemical method to assess analgesic activity.	5 marks
3	Write a short note on MES-induced convulsions and its use in drug screening.	5 marks
4	Describe any one <i>in vivo</i> model to evaluate peripherally acting neuromuscular blocking agents.	5 marks
5	Compare and contrast one-kidney one-clip method with diet-induced model of hypertension.	5 marks
6	Discuss a chemical-induced experimental model for insulin dependent diabetes mellitus.	5 marks

***** END OF QUESTIONS ******