2015 BIOCHEMISTRY

1 3 MAY 2015

Paper - BCT 404

(Neurobiochemistry)

Full Marks - 25

The figures in the margin indicate full marks

Candidates are required to give their answers in their own words as far as practicable

1.	. (a)	Describe the structure and function	on of the various domains of the	
steroid receptor superfamily.				4
	(b)	Describe the morphology and con	aposition of dendrite spines.	3
	(c)	How are dendritic spines s	tructurally affected in neuro	
develop	omenta	l disorders characterised by mental	retardation?	1
		Or		
2	. (a)	Write a short note on the neu	rotrophic role of brain derived	
neurotr	ophic f	actor.	Higher states and the con-	4
	(b)	What is the masculinising hormo	one of the brain and how does it	
cause s	exual d	limorphism of the brain?		3
(c) Name two diseases due to migratory disorders of the brain			ory disorders of the brain.	1
			the most of the second	
3	. (a)	Mention the key functions of bloo	od brain barrier?	2
(b) What is the role of AMPA receptor in LTP get			or in LTP generation?	2
	(c)	What is the major pathway for rer	noving cholesterol from CNS ?	1
		Or	Professional Control of the Control	
4	. (a)	Chose one from Column B which	is most suitably connected with	
Colum	. ,		tenero sensa son er tenero (e) tenero a el motori era EC o armanocritos	3
		Column A	Column B	
	Syna	apse	BBB	
	Glutamate		GABA	
	Metabotropic receptor			
		tamic acid decarboxylase	axon	
		nt junction	5-HT1	
	Occ	ipital lobe	NMDA	

(b) How do you catagoriese neurotransmitters? (Give examples)

[Turn Over]

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