





Class : XIth Date : Solutions

Subject : BIOLOGY DPP No. : 3

Topic :- Neural Control & Coordination

1	(c)
	A -Nodes of Ranvier, B-Neurolemma, C-Schow an cell.
	There are two types of axons, <i>i.e.</i> , myelinated and non-myelinated. The myelinated nerve fibres
	are enveloped with Schwann cells which form a myelin sheath around the axon. The gaps
	between two adjacent myelin sheath are called modes of Ranvier
2	(d)
	The inner ear consists of a laby <mark>rinth of channels w</mark> ithin a skull bone (the temporal bone).
	The part of the inner ear involved in hearing is cochlea. The cochlea has two large
	chambers, an upper vestibular canal and a lower tympanic canal, separated by a smaller
	cochlear duct. The vestibular and tympanic canals filled with perilymph, while cochlear
	duct is filled with endoly <mark>mph</mark> .
3	(d)
	A small oval, yellowish a <mark>rea of the retina lying exactly opposite</mark> to the centre of the cornea is
	named the macula lute <mark>a or yellow spot which as its middle has a</mark> shallow depression, the fovea-
	centralis. The fovea ce <mark>ntralis has cone cells onl</mark> y. <mark>It is devoid of ro</mark> ds and blood cells
4	(a)
	The electrical pot <mark>ential difference across the resting plasma me</mark> mbrane is called as the
	resting potential.
5	(d)
	CNS lies along the <mark>main longitudinal axis of the body. The CNS consis</mark> ts of two parts, brain and
	spinal cord. It is the site of information processing and control.
	PNS comprises of all the nerves (cranial nerves and spinal nerves) of the body associated with the
	CNS. The nerve <mark>fibre</mark> s of the PNS are two types, <i>i.e.,</i> afferent and effer <mark>ent fib</mark> res
6	(c)
	Parietal lobe of brain has taste area.
7	(d)
	All of the above.
	The cerebral cortex contains motor areas, sensory areas and large regions that are neither clearly
	sensory motor in function. These regions are called as the association areas. These are
	responsible for complex functions like intersensory associations, memory and communication
8	(b)
	Presence of Nissl's granules (bodies of large and irregular masses of ribosomes and RER)
	is a characteristic feature of neurons.
9	(c)
-	There are two types of photoreceptor cells of retina, namely rods and cones. The rods
	contain a purplish red protein called the rhodopsin or visual purple, which contains a
	derivative of vitamin-A.
10	
10	(b)
	Homeostasis is the property of a system that regulates its internal environment and tends to
	maintain a stable, relatively constant condition of properties such as temperature or pH. It can be
	either an open or closed system

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11	(b)
ΤT	Corpus callosum is a neural connection between two cerebral hemispheres of mammals.
12	(b)
12	Multipolar neurons are the neurons with one axon and two or more dendrites. These are found in
	the cerebral cortex
13	(d)
	The system, which is responsible for providing an organized network of point to point connection
	for a quick coordination is called neural system. This system is made up of highly specialized cells
	called neurons, which detects the stimuli throughout the body and transmit it to the brain
14	(a)
	The myelinated nerve fibres are enveloped with Schwann cells, which form a myelin sheath
	around the axon
15	
	The black pigment present in retina is <mark>Retinal Pig</mark> ment Epithelium (RPE),that nourishes retinal visual cells and shields the retina from excess incoming light. The RPE, is composed of a single
	layer of hexagonal cells that are densely packed with pigment granules
16	(b)
	Cranial nerves are not part of central nervous system. Cranial nerves are the part of
	voluntary nervous system and arise from the brain.
17	(a)
	Sympathetic nervous syst <mark>em dilates the pupils, therefo</mark> re, permitting more light to enter
	into the eyes. Sympathetic nervous system includes a chain of sympathetic ganglia.
18	(a)
	The myelin sheath ap <mark>pears a</mark> s <mark>a tube around the axon of ne</mark> rve fibre. At regular intervals,
	the neurilemma is c <mark>onstricted and the mye</mark> lin sheath is interrupted forming the so, called
	nodes of Ranvier.
19	(d)
	The upper or superior surface of the 'midbrain' has two pairs of rounded protrusions
	collectively called the corpora quadrigemina ; one pair is called superior colliculi and the
	other pair is called inferior colliculi.
20	(a)
	A-Sense organ B-Sensory nerve
	C-Dorsal horn D-Interneuron
	E-Ventral horn F-Motor nerve

GvEffector

ANSWER-KEY													
Q.	1	2	3	4	5	6	7	8	9	10			
A.	С	D	D	Α	D	С	D	В	С	В			
Q.	11	12	13	14	15	16	17	18	19	20			
А.	В	В	D	Α	В	В	Α	Α	D	Α			

COACHING





555 SMARTLEARN COACHING