

# FEDERAL PUBLIC SERVICE COMMINATION FOR TOMPETITIVE EXAMINATION FOR TONT TO POSTS IN BS-17 TOWERNMENT, 2013

TIME ALLOWED:		(PART-I MCQs)	<b>30 MINUTES</b>	MAXIMUM MARKS: 20		
THREE HO	URS	(PART-II)	2 HOURS & 30 MINUTES	MAXIMUM MARKS: 80		
NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back						
	after 30	minutes.				
(ii)	Overw	verwriting/cutting of the options/answers will not be given credit.				

# PART-I ((MCQs) (COMPULSORY)

<ul> <li>Q.1. (i) Select the best option/answer and fill in the appropriate Circle on the OMR Answer Sheet. (20x1=20) (ii) Answers given anywhere, other than OMR Answer Sheet, shall not be considered.</li> </ul>								
1.	Which of these is a direct source of energy for muscle contraction?							
	(a) ATP (b) Creatine phosphate (c) Lactic acid (d) Glucose (e) None of these							
2.	Muscle fatigue is caused by:							
	(a) CO <sub>2</sub> (b) Lactic acid (c) Fumaric acid (d) Ethyl alcohol (e) None of these							
3.	The functional unit in a skeletal muscle is called:							
	(a) Actin filament (b) Sarcomere (c) Z line (d) Myosin filament (e) None of these							
4.	We would describe the layered, flat, scaly epithelium of human skin as:							
	(a) Simple Squamous (b) Stratified Squamous (c) Stratified Columnar							
	(d) Pseudo Stratified Cubiodal (e) None of these							
5.	Which of the following is not considered to be a tissue?							
	(a) Cartilage (b) Mucous membrane lining the stomach (c) Blood (d) Brain (e) All of these							
6.	As a Zoologist you would look for looping movement in:							
	(a) Earthworms (b) Poly chaetes (c) Echinoderms (d) Leeches (e) None of these							
7.	The elements of nervous system which help in co-ordination are:							
	(a) Receptors (b) Neurons (c) Effectors (d) All of these (e) None of these							
8.	The distal ends of which of these neurons lie adjacent to blood stream:							
	(a) Afferent neurons (b) Efferent neurons (c) Inter neurons							
	(d) Neuro secretory neuron (e) All of these							
9.	The electrical potential that exists across a cell membrane is:							
	(a) Resting membrane potential (b) Active membrane potential (c) Automatic potential							
	(d) All of these (e) None of these							
10.								
	(a) Collection of neurons (b) Concentration of dendrites and exons							
	(c) Bundles of exons or dendrites of neurons							
	(d) Bundles of exons or dendrites bounded by connective tissues (e) None of these							
11.								
	(a) All of the neurons are excitable (b) All of the neurons can transmit impulses across their membrane							
	(c) Transmission of nurve impulses is always unidirectional (d) All of these statements							
	(e) None of these							
12.								
	(a) Na <sup>+</sup> - K <sup>+</sup> ATPase (b) Phosphatase (c) Isomerase (d) Hydrolase (e) None of these							
13.	e							
	another individual of the same species:							

(a) Neuropeptides (b) Neurohormones (c) Pheromones (d) Neurotransmitters (e) None of these

# www.StudentBounty.com Homework Help & Pastpapers

# ZOOLOCV DADED II 4

			-
<u>ZOO</u>	OLOGY, PAPER-II		se (e) None of the one of these
14.	Hormones that the Thyroid gland secrets a	are:	E.
	(a) Proteins (b) Amines (c) Steroid	s (d) Carbohydrates (e) All of the	se C
15.	Thyroxine is:	•	2
	(a) An enzyme (b) A hormone (c)	A vitamin (d) An excretory waste	(e) None of the
16.	• • • •	ters in a female is controlled by:	0.
	1 ·	TSH (d) Estrogens (e) No	one of these
17.	•••••••••••••••••••••••••••••••••••••••		
	(a) Islet of langerhans and regulates gluc	cose level in blood (b) Thyroid and r	egulates growth
	(c) Adrenals and regulates heart beat (d)	•	
18.	-		
	(a) Thyroid (b) Para-thyroid (c)		(e) None of these
19.	· · · · · · · · · · · · · · · · · · ·	• •	
	× ·	e e e	(e) None of these
20.			· /
	(a) Bile and produced in liver (b)	Blood and produced by RBCS	
	· · · · · ·	Bone and produced in bone marrow	(e) None of these

# **PART-II**

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

(ii) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.

(iii) Attempt ONLY FOUR questions from PART-II, selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.

(iv) Extra attempt of any question or any part of the attempted question will not be considered.

# **SECTION-A**

Q.2.	Describe the phenomenon of Mitotic Cell division in animals.				
Q.3.	Define an allele. Explain Mendel's principle of Independent assortment with examples.				
Q.4.	<b>2.4.</b> What do you know about sex-linked inheritance? Explain with examples.				
	<u>SECTION-B</u>				
Q.5.	Do you believe in "Evolution". Give evidences in favour of the theory.	(20)			
Q.6.	Define bio-geochemical cycles. Explain 'Nitrogen' cycle diagrammatically.	(20)			
Q.7.	What is Darwinism? Differentiate it from Lamarkism. What do you know about the synthesis of Darwinian theory with population genetics?	(20)			
Q.8.	Describe various interactions among animal populations	(20)			

\*\*\*\*\*\*