H.P. BOSE

Sample Paper

Session-2021-22

Second Terminal Exam 2022

Biology

Time:3 Hrs Class: XI M.M.: 50 **Section-A** DNA synthesis on replication takes place in 1. a) G₁ phase b) S phase d) G₀ phase c) G, phase The chromosomes are arranged in the equatorial plate in 2. a) prophase b) metaphase c) Anaphase d) telophase No. of haploid cells formed after meiosis are 3. a) Two b) Three d) Five c) Four 4. The law of limiting factor was given by a) Calvin b) Kreb c) Blackman d) Mendel 5. Which plant hormone is also known as stress hormone? a) Auxin b) Cytokinin's c) Ethylene d) Absicic Acid 78

6.	Fruit ripening is promoted by			
	a) Nitrogen	b) CO ₂		
	c) SO ₂	d) Ethylene		
7.	In C ₄ plants Calvin cycle occurs in			
	a) Mesophyll Cells		b) Epiderm	nal Cells
	c) Bundle-Sheeth Ce	lls	d) None of	the above
8.	Election transport sys	stem is present i	n	
	a) Outer mitochondrial membrane			
	b) Inner mitochondri	al membrane		
	c) Matrix			
	d) Stroma			
9.	Lungs are covered by	y		
	a) Pleural membrane		b) Peritonio	um
	c) Pericardium		d) None of	the above
10.	The entry of food into respiratory passage is prevented by			
	a) pharynx		b) Larynx	
	c) glottis		d) Epiglott	is
11.	The instrument used to measure volume of air involved in breathing movement is called			
	a) Sphygnmanometer		b) Stethosc	ope
	c) Anemometer		d) Spirome	ter

12.	Volume of air inspire	ed or expired during a normal respiration is
	a) 500 ml	b) 1000 ml
	c) 1500 ml	d) 1800 ml
13.	Persons with AB blo	ood group are called
	a) Anemic	b) Universal donor
	c) Universal recepie	nt d) None of the above
14.	Flame cells are excr	retory structures in
	a) Platyhelminthes	b) Annelids
	c) Arthropoda	d) Mollusca
15.	PH of human urine	is
	a) 6	b) 8
	c) 10	d) 12
16.	ADH of vosopressir	n is produced from gland
	a) pituitary	b) <mark>hy</mark> pothalam <mark>us</mark>
	c) kidney	d) pancreas
17.	Human is	
	a) Ammonotelic	b) Ureotelic
	c) Uricotelic	d) Both a and b.
18.	Troponin is a part of	of
	a) Actin	b) Myosin
	c) Collagen	d) None of the above

19.	Chemicals released at the synaptic junction are			
	a) hormones	b) enzymes		
	c) Neurotransmitters	d) None of the above		
20.	Hormone responsible	e for sleep awake cycle is		
	a) Epinephrine	b) Gastrin		
	c) Insulin	d) Melatonin		
21.	Write four physiolog	gical effects of Auxins?	2	
22.	What is Oxidative p	hosphorylation?	2	
23.	What is oxgen disso	ciation curve?	2	
24.	Draw a well labelled	diagram of human nephron?	2	
25.	What is muscle fatig	ue.	2	
		or		
	Write two difference fibres.	es between red muscle and white mu	scle	
26.	What are cranial me	aning <mark>es</mark> . Name them.	2	
27.	Match the following			
	A	В		
a)	T_4	Hypothalamus		
b)	PTH	Thyroid		
c)	GnRH	pituitary		
d)	LH	Para thyroid		
		or		
	What are neurotrans	mitters. Name any one.		

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28.	Draw a well labelled diagram of citric acid cycle.			
	or			
	Write three differences between Aerobic respiration fermentation.	and		
29.	Draw well labelled diagram of metaphase and Anaphas mitosis in animal cell.	e of		
30.	Draw a well labelled diagram of non-cy photophosphorylation. or	clic 5		
	a) Draw a well labelled diagram of chloroplast.	2		
	b) C ₄ plants have a special leaf anatomy name it?	1		
	c) Differentiate between C ₃ and C ₄ plants.	2		
31.	a) What is double circulation?	3		
	b) Draw a well labelled diagram of human heart.			
	c) Name the instrument used to measure blood pressure.			