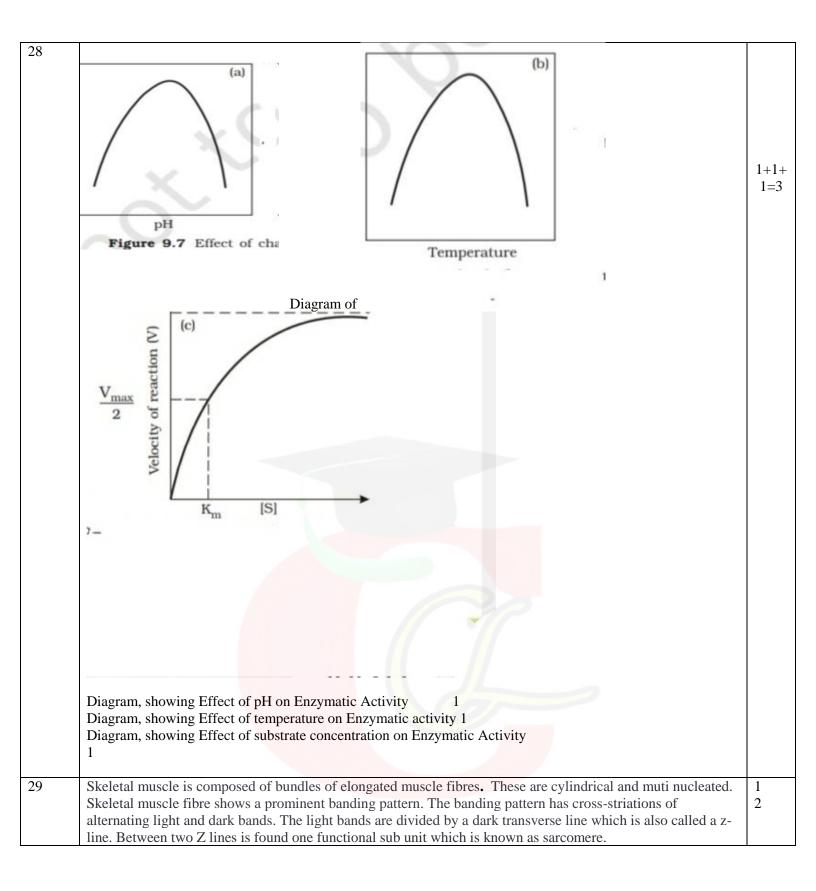
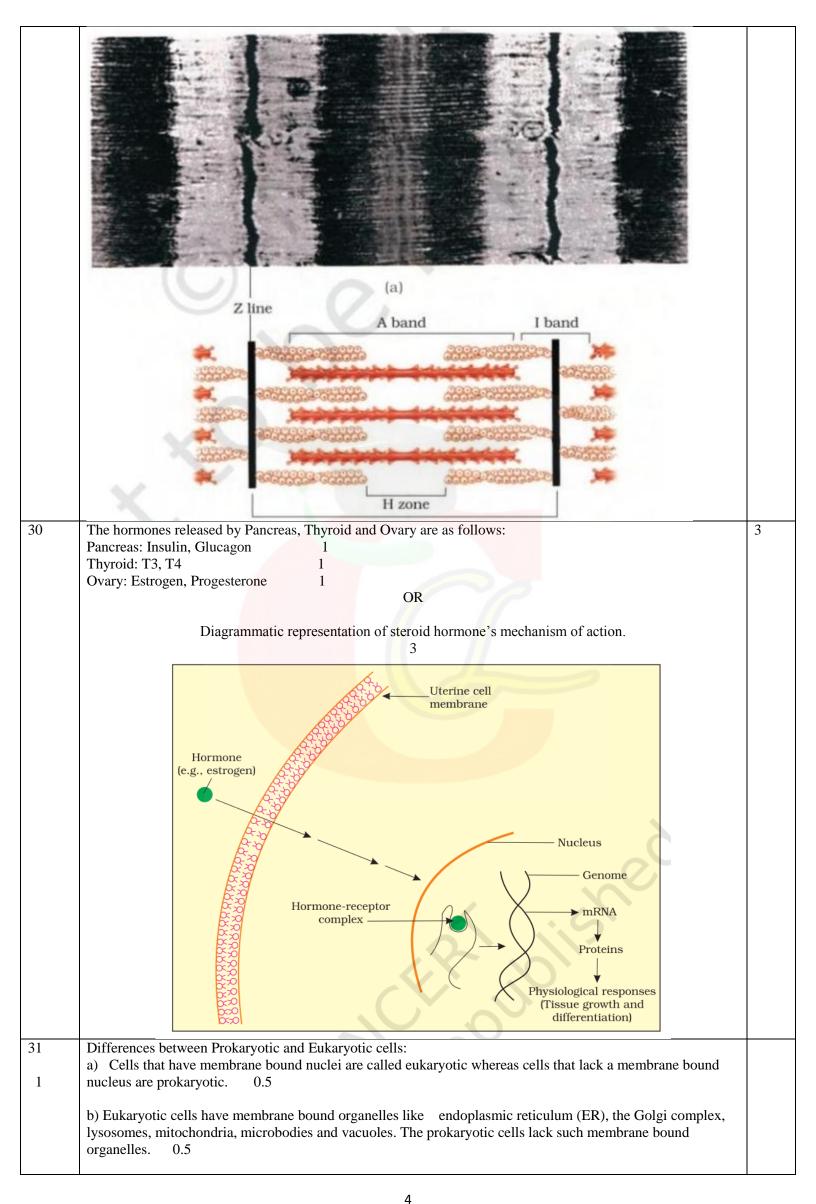
Marking Scheme Class-XI BIOLOGY (SUBJECT CODE —865)

). No	Expected Answers/ Value Points	Mar ks			
	SECTION – A				
1	(a) Solanaceae	1			
2	(d)Primata	1			
3	(c) 1969	1			
1	(b)lichens	1			
5	(a) Echinoderms	1			
5	(d)Aquatic and dioecious	1			
7	(d) All the above	1			
3	(d) Parenchyma	1			
)	(d) All the above	1			
0	(d) All the above	1			
11	(a)Lysosomes	1			
12	(b) Heteropolymer	1			
13	(b) Zyogomycetes	1			
4	(b) Peridophyte	1			
5	A	1			
16	C	1			
17	A	1			
18	A	1			
Section		1.*			
19	Two modes of respiration in frog are as follows:	2			
	Cutaneous respiration in water 1				
	Pulmonary respiration on land 1				
	OR yasa				
	.5 [*] 4=2 for each confect				
	efferentia labelling.				
	AVGVCD/ XCVDI				
	Fat				
	bodies				
	Testis				
	Kidney				
	drenal C				
	land				
	Urino				
	genital duct				
	Salar States				
	Rectum				
	and the second s				
	Cloaca				
	Urinary Cloacal				
	bladder aperture				
20	Abscisic acid is called stress hormone due to following responses during stress conditions:	2			
	0.5				
	Promotes seed dormancy 0.5				
	stimulates stomata closure during water stress 0.5				
	increases tolerance of plants to various kinds of stresses 0.5				
21	Vital Capacity Total Lung Capacity				
	(i)Vital capacity is the volume of air which can be exhaled after a Total Lung Capacity is the volume of				
	maximum inspiration. air in the lungs after maximum				
	(ii)It includes: inspiration. 1				
	Vital Capacity=ERV+TV+IRV It includes:				
	Total lung capacity=RV+ Vital				
	capacity 1				
22	(i) Resting Potential is the potential difference across the resting membrane	1			
	Action Potential is the potential difference across the membrane on generation of impulse 1				

	Device estimated in the second s	2			
22	During action potential, membrane is more permeable to Na+ ions as compared to K+ 1	2			
23	She will categorize by observing the vascular bundles situated in following conditions:				
	(i)Scattered in monocot stem				
	Arranged in ring in dicot stem 1				
	(ii) Multicellular epidermal hairs are observed over the epidermis in monocot stem				
	Multicellular epidermal hairs are not observed over the epidermis in monocot stem				
	OR Dependence of the second seco	2			
	Parenchyma:-Living cells, Thinwalled with intercellular space.1Collenchyma:- Thick walled living no intercellular space.1	2			
	Conchenyma Thick waned hving no intercentital space.				
- 2.4					
24	Sexual reproduction in fungi takes place in adverse environmental conditions with the help of two mating thallus . 0.5				
	The different steps are:				
	Plasmogamy: It is the fusion of protoplasm 0.5				
	Karyogamy: It refers to fusion of nucleus 0.5				
	Meiosis:	2			
25	In zygote, it involves cell cycle leading to nuclear division 0.5				
25	Protonemal cell of moss: n, 0.5				
	Leaf cell of moss: n, 0.5				
	Prothallus cell of fern: n, 0.5				
	Gemma cup cell of marcantia: n, 0.5				
		2			
	Section- C				
26	Three main features of Arthropods are as follows:				
	(i)Exoskeleton made up of chitin1				
	(ii)Jointed legs 1				
	(iii)Compound eyes 1				
	Or any other relevant character	3			
27	Inflorescence can be defined as arrangement of flowers on the flowering axis. It comprises complete flower				
	head of a plant, including stem, stalk, bract and flower. Inflorescence is group or cluster of flowers like				
	sunflower, marigold attached to a stem. 1 Racemose inflorescence:				
	a) unlimited growth of shoot apex,				
	b) acropetal arrangement of flowers				
	Cymose inflorescence:	3			
	a) limited growth of shoot apex,				
l.	b) basipetal arrangement of flowers				
	OR				
I	1+1+1				
	Par				
	On the basis of insertion of pistil and other floral organs flowers can be hypogynous, perigynous and				
	epigynous.				





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2 3	Cytoplasm 1 a)Bacteria is prokaryotic because it 1 has no membrane bound nucleus Genetic material is scattered in cytoplasm c) Prokaryotic cell donot have membrane bound organelles like endoplasmic reticulum (ER), the Golgi complex, lysosomes, mitochondria, 2 microbodies and vacuoles OR The names four membrane bound organelles are as given below: a) Nucleus, b) ER, c) Lysosomes, d) Vacuole	4
32	1 Oxidative Decarboxylation: Removal of carbon along with oxidation i.e formation of acetyl coenzyme A from pyruvic acid 1 2 3 NADH2and 1FADH2 3 3 and 4 carbon atoms respectively Or Two reactions in the cycle can be named as: a) Decarboxylation b) Regeneration, 2	4
33	<complex-block></complex-block>	5

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	C3 plants	C4 plants				
Meaning	In dark reaction of Photosynthesis process C3 plants use the C3 pathway or Calvin cycle	In dark reaction of Photosynthesis process C4 plants use the C4 pathway or Hatch-Slack Pathway				
Name of favourable Season	Cool-season plants	Warm-season plants				
Product	3 carbon compound (Phosphoglyceri c acid)	4 carbon compound (Oxaloacetic acid)				
Kranz anatomy	Absent	Present				
Optimum temperature	Extremely low.	High.				
			1*5			
	Diagram of Cardi		A (0.1 s B (0.1 s B (0.3	sec)		
Atrial systole, Ver Ventricular diasto Connective tiss	Diagram of Cardia diac cycle: sists of Joint diastole ntricular systole with le Total time of cardia sue is one which con asma, with red blood	ac Cycle of atria and ventric atrial diastole iac cycle is 0.8 secon OR nects body systems. cells,1 white blood	(0.1 s A (0.1 s B (0.1 s B (0.1 s C (0.3 s) (0.3 s)	2 1 pple which has		
Cardiac cycle cons Atrial systole, Ver Ventricular diasto Connective tiss matrix called pla Plasma: 90-92 wat Formed Elements: leukocytes also kn Erythrocytes: With Leukocytes: Gran	diac cycle: sists of Joint diastole ntricular systole with le Total time of cardi sue is one which con asma, with red blood	ac Cycle of atria and ventric atrial diastole iac cycle is 0.8 secon OR nects body systems. cells,1 white blood follows 1 formed elements ar cells, and the thromis e life span 120 days locyte 1	(0.1 s (0.1 s (0.1 s (0.3 c) (0.3 c	2 1 pple which has floating in it. also known as n as platelets.	The details are a red blood cells,	as

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e) from one parent cell two daughter cells are produced					
Meiosis:					
a) Occurs in germinal cells					
b) variation in daughter cells					
c) crossing over is there					
d) long process, from one daughter cell					
e) four daughter cells are produced 1*5					
OR					
The prophase I of meiosis has following stages with respective details:					
Leptotene: This is the beginning phase of prophase-I. It is characterised by the condensation of the chromosomes.					
Zygotene: Homologous chromosomes start pairing up, known as the synapsis. The synaptonemal complex starts building					
up. Bivalent chromosomes appear.					
Pachytene: Non-sister chromatids of one homologous pair of chromosomes exchange their chromosomal parts. This					
process is known as crossing over. Chiasmata is the attachment point of the crossing-over.					
Diplotene: The crossing-over completes.					
Diakinesis: The homologous chromosomes separate. Synaptonemal complex disappears. The nuclear membrane					
disappears. 1*5					

