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ಕರ್ನಾಟಕ ಪ್ರೌಢ ಶಿಕ್ಷಣ ಪರೀಕ್ಷಾ ಮಂಡಳಿ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು – 560 003

KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD, MALLESWARAM, BANGALORE - 560 003

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S. S. L. C. EXAMINATION, JUNE, 2019

ಮಾದರಿ ಉತ್ತರಗಳು

MODEL ANSWERS

ದಿನಾಂಕ : 24. 06. 2019]

Date : 24. 06. 2019]

ಸಂಕೇತ ಸಂಖ್ಯೆ : 83-E (Bio)

CODE NO. : 83-E (Bio)

ವಿಷಯ : ವಿಜ್ಞಾನ

Subject : SCIENCE

(ಜೀವಶಾಸ್ತ್ರ / Biology)

(ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus)

(ಪುನರಾವರ್ತಿತ ಖಾಸಗಿ ಅಭ್ಯರ್ಥಿ/ Private Repeater)

(ಇಂಗ್ಲಿಷ್ ಭಾಷಾಂತರ / English Version)

[ಗರಿಷ್ಠ ಅಂಕಗಳು : 100

[Max. Marks : 100

Qn. Nos.	Value Points	Total
2.	The group of organisms that reproduce through fission only is	
	(A) Amoeba, Hydra, Spyrogyra	
	(B) Leishmania, Amoeba, Yeast	
	(C) Amoeba, Plasmodium, Planaria	
	(D) Plasmodium, Amoeba, Leishmania.	
	Ans. :	
	(D) — Plasmodium, Amoeba, Leishmania	1
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83-E (Bio)
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Qn. os.	Val	ue Points	Tota
3.	The correct statement related to dig	gestion in small intestine is	
	(A) acidic food is made alkaline	by bile juice	
	(B) food is made acidic by hydro	chloric acid	
	(C) starch is digested due to the	action of amylase	
	(D) protein is digested due to the	e action of pepsin.	
	Ans. :		
	(A) — Acidic food made alkaline	by bile juice	1
5.	Observe the food chain given below	·:	
	Grass \rightarrow Grass hopper \rightarrow Frog -	\rightarrow Snake \rightarrow Eagle.	
	If the energy available at first trop energy available for snake is	hic level is 5000 J, then the amount of	f
	(A) 500 J	(B) 5 J	
	(C) 0·5 J	(D) 50 J.	
	Ans. :		
	(B) — 5 J		1
0.	Observe the table which shows con	trast forms of pea plants :	
	Colour of the seed	Position of the flower	
	Green (G)	Axial (A)	
	Yellow (Y)	Terminal (a)	
	The genetic makeup with green see	ed and terminal flowers is indicated as	
	(A) gGAa	(B) GgAa	
	(C) GgAA	(D) Ggaa.	
	Ans. :		
	(D) — Ggaa		1

83-E (Bio)

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Qn. Nos.	Value Points	Total
13.	Name the products of anaerobic respiration.	
	Ans. :	
	Ethanol. $\frac{1}{2}$	
	Carbon dioxide. $\frac{1}{2}$	1
16.	Micro-organisms like bacteria are called decomposers. Why ?	
	Ans.:	
	★ Break down the complex organic substances into simple inorganic substances.	
	\star Break down dead remains and wastes of organisms.	
	(Any one)	1
18.	Name the factors responsible for speciation.	
	Ans.:	
	Variations $\frac{1}{2}$	
	Geographical isolation. $\frac{1}{2}$	1
21.	Draw the diagram showing opened stomata. Label the following parts :	
	(i) Guard cells	
	(ii) Stomatal pore.	
	Ans. :	
	Diagram showing opened stomata :	
	(i) Guard cells (ii) Stomatal pore	
	$1 + \frac{1}{2} + \frac{1}{2}$ (24)1209-PR(C) (BIO)	2 urn over

Qn. Nos.	Value Points		Total
23.	Discussion below assure at besets of three differen	t animala Obsama	
40.	Diagrams given below represent hearts of three different it and answer the question.	it animais. Observe	
	R S		
		$\left. \right\}$	
	1 2 3		
	Among these, which heart is helpful to the animals	that require more	
	energy ? Why ?		
	OR		
	The approximate lengths of small intestine of animals .	x and y are given in	
	the table. Observe it and answer the question.		
	Animals Approximate length of sma	ll intestine	
	<i>x</i> 20 to 40 feet		
	<i>y</i> 5 to 8 feet		
	Identify the herbivorous and carnivorous animals	in the table and	
	support your decision with scientific reasons.		
	Ans. :		
	(i) Heart - 2	$\frac{1}{2}$	
	(ii) Oxygenated and deoxygenated blood will not mix	together $\frac{1}{2}$	
	Efficient supply of oxygen to the body.	$\frac{1}{2}$	
	Helpful to maintain body temperature.	$\frac{1}{2}$	2
	OR		

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Qn. Nos.	Value Points	Total
	$x \rightarrow$ Herbivore	$\frac{1}{2}$
	$y \rightarrow$ Carnivore.	$\frac{1}{2}$
*	Herbivores require a longer small intestine to digest cellulose.	$\frac{1}{2}$
*	Small intestine of carnivores is short as the meat is easier to dig	
		$\frac{1}{2}$ 2
27. Dra	aw the diagram showing the structure of neuron. Label the follo	wing
(i)	The part which has prominent nucleus	
(ii)	Dendrite.	
An	s. :	
Dia	agram showing structure of neuron. (ii) Dendrites (i) Cell body	
	$1 + \frac{1}{2}$	$+\frac{1}{2}$ 2
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83-E	(Bio)
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Value Points	Tota
n sustaining reproductive fertility of a person,	
a) position of the testis in the body	
b) secretion of the testosterone	
c) secretion of the prostrate gland	
re supplementary to each other. Explain scientifically.	
Ans. :	
(a) Sperm formation requires a lower temperature than body temperature. 1	
(b) Testosterone regulates / stimulates the formation of sperm. $\frac{1}{2}$	
(c) Secretion of Prostrate gland makes the transportation of sperm easier. $\frac{1}{2}$	
Thus reproductive fertility is sustained by the formation, stimulation to the formation and proper transportation of sperms.	2
Draw the diagram showing the germination of pollen on stigma and label	
the part on which pollination takes place.	
Ans. :	
Diagram showing germination of pollen on stigma : Stigma	
$1\frac{1}{2} + \frac{1}{2}$	2
	 n sustaining reproductive fertility of a person, a) position of the testis in the body b) secretion of the testosterone c) secretion of the prostrate gland are supplementary to each other. Explain scientifically. Ans.: (a) Sperm formation requires a lower temperature than body temperature. 1 (b) Testosterone regulates / stimulates the formation of sperm. (c) Secretion of Prostrate gland makes the transportation of sperm easier. 1/2 Thus reproductive fertility is sustained by the formation, stimulation to the formation and proper transportation of sperms. Draw the diagram showing the germination of pollen on stigma and label the part on which pollination takes place. Ans.: Diagram showing germination of pollen on stigma :

83-E (Bio)

Qn. Nos.	Value Points	Total
37.	Draw the diagram showing human excretory system. Label the following parts :	
	(i) Urinary bladder	
	(ii) Ureter.	
	Ans. :	
	Diagram showing human excretory system.	
	(i) Ureter (i) Urinary bladder	
	$1 + \frac{1}{2} + \frac{1}{2}$	2
40.	Differentiate between self pollination and cross pollination.	
	Ans. :	
	Transfer of pollen on the stigma of same flower is self pollination. 1	
	Pollen from one flower if transferred on the stigma of another flower in the	
	same plant or between the flowers of two different plants of same species	
	is cross pollination. 1	2
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Qn. Nos.	Value Points	Total
43.	"Secretion of the adrenaline in the body is essential to face sensitiv	e
	conditions." Justify.	
	Ans. :	
	* Heartbeat fastens. $\frac{1}{2}$	
	* Breathing rate increases. $\frac{1}{2}$	
	\star Blood circulation from digestive system diverts towards skeleta	ıl
	muscles. Thus, the body obtains more energy and prepare to fac	e
	sensitive conditions. 1	2
46.	Imagine the following situations :	
	(i) Clapping at the end of a programme	
	(ii) Fluctuating blood pressure in the body.	
	How these situations are functionally different ? Give reason.	
	OR	
	"We withdraw our leg when stepped on thorn unknowingly."	
	(i) Trace the sequences of events which occur in this action.	
	(ii) Which part of human nervous system controls this action ?	
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83-E (Bio)

Qn. Nos.			Value Points		Total
	Ans. :				
	(i)		tary action :	$\frac{1}{2}$	
		* E	Based on deciding what to do next		
		(Action performed based on thinking)	$\frac{1}{2}$	
		* (Controlled by forebrain.	$\frac{1}{2}$	
	(ii)	Involu	intary action :	$\frac{1}{2}$	
		* A	action without thinking control	$\frac{1}{2}$	
		* 0	Controlled by hind brain.	$\frac{1}{2}$	3
			OR		
	(i)	(a) F	Receptors receive the stimulus of pain	$\frac{1}{2}$	
		(b) N	lessages reach spinal cord through sensory neuron.	$\frac{1}{2}$	
		(c) F	Responses reach motor neuron through association neuron.	$\frac{1}{2}$	
		(d) F	Responses reach effector through motor neuron.	$\frac{1}{2}$	
		(e) N	Iuscles withdraw the leg.	$\frac{1}{2}$	
	(ii)	Spinal	l cord / reflex arc.	$\frac{1}{2}$	3
49.	(i)	How	does combustion of fossil fuels cause greenhouse effect ?		
	(ii)	List t	he reasons for failure in sustaining ground water.		
			OR		
	(i)	Reus	e of plastic products is better than recycle method. Why ?		
	(ii)	"Loca	l people are stakeholders of forest resources." Explain.		
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Qn. Ios.		Value Points		Tota	
	Ans. :				
	(i)	Releases carbon dioxide	$\frac{1}{2}$		
		Increases global worming	$\frac{1}{2}$		
	(ii)	★ Deforestation	$\frac{1}{2}$		
		\star Growing crops which demand high water	$\frac{1}{2}$		
		★ Pollution due to industrial effluents	$\frac{1}{2}$		
		★ Pollution due to urban wastes.	$\frac{1}{2}$	3	
		OR			
	(i)	Recycling method uses energy.			
	()	(Energy is not used in reuse method).	1		
	(ii)	★ For fire wood : Timber and Thatch.			
		★ For bamboo used in huts & baskets			
		★ For implements of agriculture, fishing and hunting.			
		★ To gather fruits, nuts and medicines.			
		* To fodder for their cattles. (any four) 4	$\times \frac{1}{2}$	3	
52.	(i)	How does relative method help to determine the age of fossils ?)		
	(ii)	"Experiences of an individual during its life time cannot	unect		
		evolution." Why ?			
	(iii)	"Chromosomes inherited from the father determines the sex	x of a		
		child." Explain.			

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n. os.	Value Points Ans. :		
	(i)	Gives the information that, fossils which are closer to the surface are	
		most recent than those in deeper layers. 1	
	(ii)	\star Change in non-reproductive tissues cannot be passed on to the	
		DNA of germ cells.	
		\star Experiences gained by the organism is not transferred to the	
		DNA and cannot be transferred to the next generation.	
		(Any <i>one</i>) 1	
	(iii)	All children will inherit an <i>X</i> chromosome from mother. 1	
		★ Child who inherit an X chromosome from father will be a girl. $\frac{1}{2}$	
		* Child who inherit an Y chromosome from father will be a boy. $\frac{1}{2}$	4

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