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UNREVISED**

**B**

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

**KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD, MALLESWARAM,  
BANGALORE – 560 003**

ಎಸ್.ಎಸ್.ಎಲ್.ಸಿ. ಪರೀಕ್ಷೆ, ಸೆಪ್ಟೆಂಬರ್, 2020

**S.S.L.C. EXAMINATION, SEPTEMBER, 2020**

ಮಾದರಿ ಉತ್ತರಗಳು

**MODEL ANSWERS**

ದಿನಾಂಕ : 28. 09. 2020 ]

ಸಂಕೇತ ಸಂಖ್ಯೆ : **83-E (Bio)**

Date : 28. 09. 2020 ]

CODE No. : **83-E (Bio)**

ವಿಷಯ : ವಿಜ್ಞಾನ

**Subject : SCIENCE**

( ಜೀವಶಾಸ್ತ್ರ / Biology )

( ಹಳೆ ಪಠ್ಯಕ್ರಮ / Old Syllabus )

( ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ / Regular Repeater )

( ಇಂಗ್ಲಿಷ್ ಭಾಷಾಂತರ / English Version )

[ ಗರಿಷ್ಠ ಅಂಕಗಳು : 80

[ Max. Marks : 80

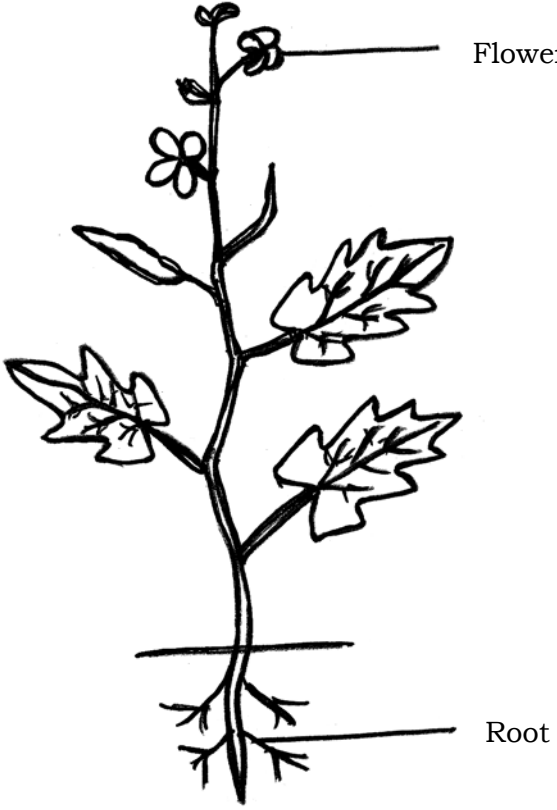
Qn. Nos.	Value Points	Total
3.	The disease caused by human papiloma virus is (A) Birdflu (B) Gonorrhoea (C) Syphilis (D) Genital warts. Ans. : (D) Genital warts	1
6.	The hormone deficiency in a person suffering from goitre is (A) Parathormone (B) Thyroxine (C) Insulin (D) Cortisone. Ans. : (B) Thyroxin	1

**RR (B)-1550 ★ (MA) (BIO)**

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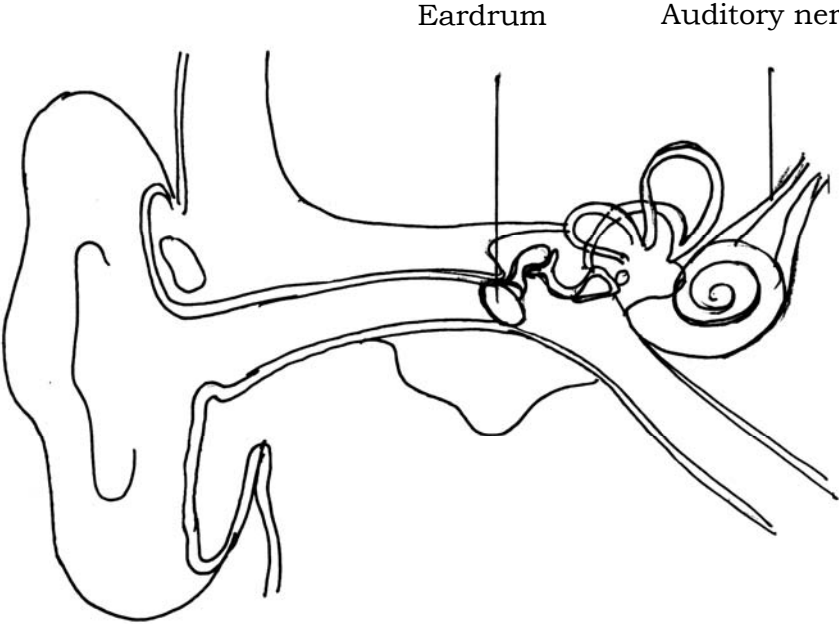
Qn. Nos.	Value Points	Total
9.	The technique used to identify the genetic relationship is (A) cloning (B) DNA finger print technology (C) blood test (D) tissue culture. Ans. : (B) D.N.A. finger print Technology	1
12.	“When compared to detergents soaps are ecofriendly.” Why ? Ans. : Soaps are biodegradable.	1
14.	When apical portion of the jowar plant is cut and removed, then the plant will die. Why ? Ans. : Plant dies due to removal of apical meristem / meristematic tissue.	1
17.	What is monohybrid cross ? Ans. : A cross between two plants which differ in one specific character is called monohybrid cross.	1
19.	Mention the symptoms found in a person suffering from dengue fever. Ans. : ★ Headache, fatigue, fever, muscle and joint pain. $\frac{1}{2}$ Swollen glands ★ Bleeding gums $\frac{1}{2}$ ★ Severe pain behind eyes $\frac{1}{2}$ ★ Redness in palms and soles. $\frac{1}{2}$	2
22.	What are the limitations of biotechnology ? OR Why did Mendel select pea plants for his experiment ? Ans. : ★ Results in seed sterility in plants. ★ Cloning would pose serious social, ethical, moral and cultural problems. ★ Used for illegal purposes and destructive activities. ★ Genetically modified foods threatening the human health. ★ Upsets the balance of the nature. ( Any two ) 1 + 1	2
	OR	



Qn. Nos.	Value Points	Total
32.	<p>Draw the diagram showing the structure of a dicot plant. Label the following parts :</p> <p>i) Flower</p> <p>ii) Root.</p> <p>Ans. :</p> <div style="text-align: center;">  </div> <p style="text-align: right;">Diagram — 1 Parts — <math>\frac{1}{2} + \frac{1}{2}</math></p>	2
34.	<p>Mention any four changes found, when Dryopithecus pre-human ancestors evolved into Zinjanthropus pre-humans.</p> <p>Ans. :</p> <ul style="list-style-type: none"> <li>★ Developed stronger and straighter legs with feet suited more for walking.</li> <li>★ Prehensile nature of the big toe was gradually lost.</li> </ul>	



Qn. Nos.	Value Points		Total
	<i>Vascular plants</i>	<i>Non-vascular plants</i>	
	★ Xylem and phloem present	★ Xylem and phloem absent	
	★ Vascular plants classified into ★ Pteridophytes ★ Gymnosperms ★ Angiosperms	★ Non-vascular plants classified into ★ Multicellular Algae ★ Bryophytes	
	★ Found in all kinds of Habitats	★ Found in cold and humid conditioned Habitats	
	★ Most of the plants have definite root, stem, leaves	★ Most of the plants have thalloid structure	
	( Any three )      1 + 1 + 1		3
39.	a) Leaves of banana plant will tear easily by wind force but the midrib of the leaves do not tear. Why ?  b) The body of a person is showing low immunity against bacterial infection. In which tissue there is a problem and how this tissue protects our body ?  <i>Ans. :</i>  a) In leaves, thin walled parenchyma cells are arranged loosely. But in midrib thick walled collenchyma with hemicellulose or pectin is present.  b) ★ Lymph tissue  ★ By producing antibodies to kill bacteria.		1 1 1 3

Qn. Nos.	Value Points	Total
42.	<p>Draw the diagram showing the internal structure of human ear. Label the following parts :</p> <p>i) Auditory nerve</p> <p>ii) Ear drum.</p> <p>Ans. :</p> <div style="text-align: center;">  </div> <p style="text-align: right;">           Drawing — 3            Parts — <math>\frac{1}{2} + \frac{1}{2}</math> </p>	4