

**TEACHER MADE WRITTEN TESTS ESSENTIALLY
BASED ON SUBJECT CONTENT**

1. ACHIEVEMENT TEST

2. DIAGNOSTIC TEST




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ACHIEVEMENT TEST

GVHSS NJEKKAD

BIOLOGY

TIME: 1 HOUR

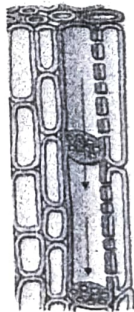
STD: VIII

Instructions:

1. Answer the questions based on instructions.
2. Answer the questions according to the score and time.

I. Questions from 1 to 6 carry 1 score each.

1. Select correct answer for the given statement.
 - Group of similar cells that have a common origin and perform specific function.
 - a) Cell organelle b) Tissue c) Organs d) Organ system
2. Select the statement related to tendons from the given options.
 - a) Connect bones together
 - b) Connect muscles to bones
 - c) Provide shape, support and strength to body
 - d) Holds the eyes and kidneys in the proper place
3. The specialised tissues that transport water and minerals absorbed by the roots to the leaves is called _____.
 - a) Xylem b) Phloem c) Meristem d) Sclerenchyma
4. Find the odd one and write the common feature of others.
Kidney, Trachea, Ureter, Urinary bladder
5. Identify the word pair relationship and fill the missing word.
Heart: Circulatory system::Brain: _____.
6. What is the function of plant tissue given below?



II. Questions from 7 to 9 carry 2 scores each

Analyse the statements given below and answer the questions

In our body, there are certain specialised cells that can transform into any kind of cell.



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(1×6=6)

- a) Name the cells indicated in the data.
- b) What is the importance of these cells in modern medicine?

8. Illustrate the process of cell differentiation.

9. The peculiarity of an animal tissue is given below.
 Composed of cells that covers and protects the body.
- a) Identify the animal tissue.
 - b) What is the function of mentioned animal tissue?

(2×3=6)

III. Questions from 10 to 12 carry 3 scores each

10. Arrange the following statements suitably in the table.

- Comparatively large nucleus
- Thick secondary wall
- More cytoplasm
- Comparatively small nucleus
- Less cytoplasm
- Thin primary wall

Meristematic Cell	Mature Plant Cell

11. Construct a flow chart related to levels of organization in organisms.

12. Correct the error, if any in the underlined part and rewrite the statement.

- a) Parenchyma is seen in soft parts of the plant.
- b) Collenchyma provides strength and support to plant parts.
- c) Sclerenchyma is composed of cells that are thick only at the corners of the cell wall.

(3×3=9)

IV. Answer the question.

13. Physiological functions are smoothly carried out by the combined action of many organs. Justify.

(4×1=4)




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PLAN

Standard
Division
Maximum marks
Maximum time
Subject
Unit
Sub-Unit

: VIII
: I
: 25
: 1 hour
: Zoology
: Cell questions
: Tissue and Cell differentiation
: Stem cells
: Animal tissues
: Plant tissues
: Organ and Organ systems
: Levels of organization in organisms

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Weightage to objectives

Sl.No.	Objectives	No. of Questions	Marks	Percentage
1.	Remembering	4 [1]	4	16%
2.	Understanding	1 [2], 1 [2]	3	12%
3.	Applying	1 [2], 1 [3]	5	20%
4.	Analysing	1 [1], 1 [2], 1 [3]	6	24%
5.	Evaluating	1 [4]	4	16%
6.	Creating	1 [3]	3	12%
TOTAL		13	25	100

Note: The number inside the bracket indicates the mark and indicate the question.

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b) Descriptive to content

Sl. No.	Contents ..	No. of Questions					Total	Marks	Percentage
		R	V	A	A	E			
1.	Tissue and cell differentiation	1[1]		1[2]			2	3	12%
2.	Stem cell				1[2]		1	2	8%
3.	Animal tissues	1[1]	1[2]				2	3	12%
4.	Plant tissues	2[1]		1[3]	1[3]		4	8	32%
5.	Organ and organ systems		1[1]		1[1]	1[4]	3	6	24%
6.	Levels of organization in organisms					1[3]	1	3	12%
TOTAL						13	25	100	

Note: The number inside the bracket indicate the mark and outside indicate question



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2) Marking to form of questions

S.No.	Forms of Question	No. of Questions	Marks	Percentage
1.	Objective Type	5	5	20%
2.	Short answer type	7	16	64%
3.	Essay type	1	4	16%
	Total	13	25	100


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d) Weightage to difficulty level

S.No.	Difficulty level	No. of questions	Marks	Percentage
1.	Easy	5	5	20%
2.	Average	7	16	64%
3.	Difficult	1	4	16%
	Total	13	25	100





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BLUE PRINT

OBJECTIVES	REMEMBERING			UNDERSTANDING			APPLYING			ANALYSING			EVALUATING			CREATING	GRAND TOTAL
	O	SA	E	O	SA	E	O	SA	E	O	SA	E	O	SA			
FORMS OF QUESTIONS	0	SA	E	0	SA	E	0	SA	E	0	SA	E	0	SA			
Tissue and Cell differentiation	1(1)						1(2)									3	
Stem cells										1(2)						2	
Animal Tissues	1(1)				1(2)											3	
Plant Tissues	1(1)	1(1)					1(3)			1(3)						8	
Organ and Organ system				1(1)						1(1)			1(1)			6	
Level of organization in organisms															1(3)	3	
TOTAL MARKS	3	1		1	2		5			1	5			4		3	
GRAND TOTAL	4			3			5			6			4			3	





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SCORING KEY AND MARKING SCHEME

Q.No. Scoring Key

1.	b) Tissue	 Principal Sree Narayana Training College Nedunganda
2.	b) Connect muscles to bones	
3.	a) Xylem	

Q.No. Marking scheme Mark

4.	<ul style="list-style-type: none"> • Trachea • Others are excretory organs 	$\frac{1}{2}$ } 1 $\frac{1}{2}$ }
5.	Nervous system	1
6.	<ul style="list-style-type: none"> • Identification • Transport prepared food from leaves to part parts 	

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7. Stem cells
Treatment of blood cancer, diabetes, Parkinson disease etc.

1
1

8. Presentation and content
Neatness and legibility

1
1 } 2

9. Epithelial tissue
Protection, absorption and production of secretions

1 } 2
1 } 2

10. Content competency
Neatness and legibility

2 } 3
1 } 3

11. Content competency
Creativity and presentation
Neat combination of words and drawings

1 } 3
1 } 3
1 } 3



12.	<ul style="list-style-type: none"> a) soft parts b) flexibility and support c) Cellen cygma 	1 1 3
13.	<ul style="list-style-type: none"> • Content competency • Explanation with suitable examples • Presentation • Neatness and legibility 	2 1 1/2 1/2



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QUESTION - Wise ANALYSIS

Sl. No.	Content	Objectives	Specifications	Form of Questions	Difficulty Level	Marks	Time Required (min)
1.	Tissue and cell differentiation	Remembering	Recall	Objective	Easy	1	1
2.	Animal Tissues	Remembering	Recall	Objective	Easy	1	1
3.	Plant Tissues	Remembering	Recall	Objective	Easy	1	1
4.	Organ and Organ system	Analysing	Find	Objective	Easy	1	1
5.	Organ and organ system	Understanding	Identify	Objective	Easy	1	1
6.	Plant Tissues	Remembering	Recall	Objective	Easy	1	1
7.	Stem cells	Analysing	Examine	Short answer	Average	1	2
8.	Tissue and cell differentiation	Applying	Illustrate	Short answer	Average	2	2
9.	Animal Tissue	Understanding	Identify	Short answer	Average	2	3
10.	Plant Tissue	Analysing	Arrange	Short answer	Average	2	3
11.	Level of organization in organisms	Analysing	Construct	Short answer	Average	3	5
12.	Plant Tissue	Applying	Choose	Short answer	Average	3	5
13.	Organ and Organ system	Evaluating	Judge	Essay	Difficult	4	20

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DIAGNOSTIC TEST

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BIOLOGY

Topic : Cell Differentiation

Organ and Organ system

Name : _____

Roll No: _____

Instructions:

- *Attempt all questions.*
- *There is no time limit.*
- *Answer in the question paper itself.*

I. Find out the correct answers from the given options.

1. Which is the undifferentiated cell from which our body develops?
a) Foetal Cells b) Stem cells c) Zygote d) Nerve cells
2. What does organs combine together to form?
a) Community b) Organism c) Organ system d) Tissue
3. Select the incorrect option.
a) Controls our actions – Nervous system
b) Provides oxygen to all parts of the body -Respiratory system
c) Removes waste from the body – Excretory system
d) Move blood throughout the body – Circulatory system
4. Which types of cells are partially differentiated?
a) Bone cells b) Stem cells c) Foetal cells d) Zygote
5. What does a tissue combine to form?
a) Organ b) Organ system c) Organism d) Cell organelle

II. Find True / False to the corresponding statements given.

6. Zygote undergoes continuous division to form foetal cells. (True / False)
7. Blood cell is an undifferentiated cell. (True/ False)
8. Trachea is a part of excretory system. (True/ False)
9. Lung is a major respiratory organ. (True / False)
10. Organs combine to form organism. (True / False)

III. Fill in the blanks

11. Muscle cell is _____ cell.
12. Trachea is a part of _____ system.
13. _____ is a sac like organ.




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14. Nervous system is composed of _____, spinal cord and brain.
15. The _____ is circulatory organ that continuously pumps blood.

IV. Answer the following

16. Name any completely differentiated cell.
17. Name an organ constituting skeletal system.
18. What do cells of common origin and specific function combine to form?
19. In which organ system does liver belongs to?
20. Name the single cell from which an organism develop.



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Steps in Construction of Diagnostic Test



It includes identification of the areas the students consider difficult of the content area. The content area is analyzed thoroughly and the main teaching points are arranged properly. Each teaching point is focused while constructing test items.

Preparation of test items: The required number of test items is prepared from each relevant teaching point. Several items will be constructed from each teaching point.

Sequential Ordering: The test items are arranged on the basis of their sequential stage and difficulty level.

Dividing into sections: If the number of test items is too large, they may be divided into relevant sections.

Instructions: Clear and instruction should be given to the students as what they are expected to do.

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difficulties. Are nature of those learning experience cannot be suggested in general way. It depends on the nature of difficulty. In remedial classes children become cooperative, apprehensive, self confident, helpful



Area of difficulty

Sl.No.	DETAILS OF CONTENT	No. OF QUESTIONS
1.	Cell differentiation	9
2.	Organ systems.	11


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→ for the whole class
→ result in the diagnostic chart.
→ the areas where maximum number of students made wrong answers or omitted.
→ Find out the reason.
→ Prepare for remedial instruction.

Remedial Teaching

Remedial teaching is the process of instruction that follows immediately after diagnostic testing. When the exact nature of difficulties and the reasons of area is known, the teacher has to take step for remedial teaching. This is done at the group level or individual level depending on the scope of diagnosis and the spread of difficulty within the group. Additional learning experience is to be provided to the pupil to reduce

Answer Key

	QUESTION NUMBER	CORRECT ANSWER
I	1.	c) Zygote
	2.	c) Organ systems
	3.	b) Provides oxygen to all part of the body - Respiratory system
	4.	c) Fetal cells
	5.	a) Organ
II	6.	True
	7.	False
	8.	False
	9.	True
	10.	False
III	11.	Completely differentiated
	12.	Respiratory
	13.	Stomach
	14.	Nerves
	15.	Heart
IV	16.	Bone cell
	17.	Bones and cartilage
	18.	Tissue
	19.	Digestive system
	20.	Zygote



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OBSERVATION MODES FOR INDIVIDUAL AND GROUP ACTIVITIES



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Semester III Internship Phase I


Peer Observation Shedule

Name of the Student Teacher :

Name of the School :

Subject :

Standard: Date:

Criteria	Remarks
Introduction	
Content Development	
Classroom management	
Probing questions	<p style="text-align: right;"> Principal Sree Narayana Training College Nedunganda</p>



Stimulus Variation	
Usage of Blackboard	
Fluency In Questioning	
Conclusion	
Summative Evaluation	

Name and Signature of the Peer Observer

Name and Signature of the Student Teacher



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PERFORMANCE TESTS



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CLASSROOM PERFORMANCE OF STUDENTS

Name of the School:

Sl. No		Name	Science Diary	Assignment	Seminar	Debate	Home work

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ORAL ASSESSMENT



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Appendix 4

Interview Schedule for Eliciting Responses from the Teacher in Charge

Name of the interviewer:

Name of the interviewee:

Date of the interview:

Gender:

Place of the interview:

Sl. No.	Criteria	Major Responses
1.	Institutional Preparation	
2.	Teaching Learning Procedure	
3.	Student Participation	
4.	Teacher Pupil Interaction	
5.	Evaluation Strategies	
6.	Provision for extra-curricular and co-curricular programmes provided	
7.	Parental support	



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Appendix 3

Interview Schedule for Collecting Data from the Head of the Institution

Name of the interviewer:

Name of the interviewee:

Date of the interview:

Gender:

Place of the interview:

Sl. No.	Criteria	Major Responses
1.	Institutional Preparation	
2.	Teaching-Learning Procedure	
3.	Student Participation	
4.	Teacher-Pupil Interaction	
5.	Evaluation Strategies	
6.	Provision for extra curricular and co-curricular programmes provided	
7.	Parental support	


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interaction involves 4 questions (Item numbers: 10, 11, 12, 25). The evaluation procedure involves 1 question (Item number: 16). The parental support involves 2 questions (Item numbers: 23, 24).

Scoring procedure: -

For the purpose of analysis, against each statement, 5 choices like strongly agree, agree, neutral, disagree, and strongly disagree. For the positive statement, a score of 5 is given if the response is "strongly agree", a score of 4 is given if the response is "agree", 3 for "neutral," and 1 for "disagree,". For the negative statements the scoring procedure is reversed. A respondent can receive a maximum score of 130 and a minimum score of 26.

For qualitative interpretation, the investigator has tentatively fixed the range as follows:

Range: -

26 – 46 - Most unfavourable attitude

47 – 67 - Unfavourable attitude

68 – 88 - Neutral attitude

89 – 109 - Unfavourable attitude

110 – 130 – Highly favourable attitude towards online education

The higher the score, higher will be the attitude of students towards online education.

A copy of the tool is appended (Appendix - 2)

3. Construction of the Interview Schedule for Collecting Data from the Head of the Institution: -

The interview schedule is basically a list containing a set of structured questions that have been prepared, to serve as a guide for interviewers, researchers and investigators in collecting information or data about a specific topic or issue. This interview schedule is set to elicit information from the head of the institution based on the online education took place during the COVID pandemic. The tool contained two sections. In the first section,



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the interviewee fill the details of his name, gender and the interviewer fill the details about place of interview and date. And then in the second section there is a criteria-based column, in which 7 criteria were included based on the questions set for the interview schedule. These 7 criteria carry questions with respect to its appropriate nature and then the responses are noted from the interviewee to fill in the suitable criteria. Each question is based on appended criteria, so that the responses make them valid. The criteria included are Institutional preparation, teaching learning procedure, provision for co-curricular and extracurricular programmes provided, evaluation strategies, parental Support, teacher-student interaction. These criteria give an accurate response based on the online education during COVID pandemic and also it helps elicit accurate information.

Scoring Procedure: -

The collected data were analysed through content analysis.

A copy of the tool is appended (Appendix - 3).

4. Construction of the Interview Schedule for Collecting Data from the Teacher in Charge of KITE: -

An open-ended questionnaire for interview was prepared to find out the accurate information regarding the online education practices during the pandemic from the teacher in charge. The questions for the interview were prepared considering the criteria such as institutional preparation, Teaching- Learning procedure, Student participation, Teacher-pupil interaction, Evaluation Strategies, Provision for Co-curricular and Extracurricular programmes.

A copy of the tool is appended (Appendix - 4).

5. Construction of the Focus Group Guide: -

Focus Group Guide was used as a tool in order to collect information from the students regarding the implementation of online education in schools. The tool consisted of three sections of questions, Engagement, Exit and Exploratory questions respectively. Engagement questions consisted of two questions. Exploratory questions were twenty in



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RATING SCALES




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Appendix 2


Rating Scale – MINOR PROJECT

Name of the student :
 Name of the school :
 Class :
 Sex :

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. I had online classes regularly during COVID period taken by my school teachers					
2. I had a Google account of my own					
3. I have watched KITE First bell classes regularly					
4. I have personal computer/mobile/laptop/ Tv for attending online classes					
5. My school has provided facilities in the form of high-tech lab during pandemic					
6. I have faced difficulties like network interruptions while attending online classes					

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7. I have experienced health issues like eye strain/head ache while attending online classes					
8. I often found online classes too stressful					
9. I used to get online classes only through WhatsApp					
10. I have had the chances to clear my doubts with my teacher during WhatsApp classes					
11. I have received clear instructions about online classes from my teacher					
12. I have received information about Samagra portal from my teacher					
13. I used to work out the activities provided in the Samagra portal					
14. The resources in "Avadhikala santhosangal" in samagra portal was really entertaining and educating at the same time					 Principal Sree Narayana Training C. Nedungatt



15.I have done activities given on the first bell classes					
16. My assignments/ home works were regularly corrected by my teacher via WhatsApp /Google classroom					
17.The structure and activities of the online classes gave ample chances to interact with my classmates and to maintain friendship.					
18. I was very much tensed to attend examination after online classes					
19. I could not understand online classes due to disturbances at home					
20.I liked to switch to social media websites or games during online classes					
21. I have improved a lot in my digital skills after online classes.					

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22. I feel as if online classes won't affect my success in any way.					
23. My parents' assistance in learning during the period of online class was satisfactory.					
24. I had private tuition for different subjects other than the online classes provided by VICTERS and my teachers of the school.					
25. My teachers used to call me to clear my doubts/ ask questions during online period					

Following are some statements related to online classes during COVID period. Please read all the statements given and gives your responses given against each statements.


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seek free responses from the respondents (5, 9, 12, 13, 17, 19, 21, 24). It contains questions from different criteria such as Institutional Preparation, Teaching-Learning Procedure, Student Participation, Teacher-Pupil Interaction, Evaluation Strategies, Provision for Co-curricular and Extra-curricular Activities Provided and challenges faced by the teachers. Institutional preparation involves 7 questions (Item numbers: 3, 4, 11, 12, 13, 16, 17). Teaching-learning procedure involves 5 questions (Item numbers: 1, 5, 10, 15, 25). Student participation involves 5 questions (Item numbers: 2, 6, 7, 14, 18). Teacher-pupil interaction involves 2 questions (Item numbers: 20, 21). Evaluation strategies involve 2 questions (Item numbers: 19, 21). Provision for co-curricular and extra-curricular activities involves 2 questions (Item numbers: 22, 26). Challenges faced by the teachers involve 4 questions (Item numbers: 8, 9, 23, 24).

Scoring procedure: -

The questionnaire consists of different types of questions including choice-based questions, open ended questions and closed ended questions. Each question was analysed individually. Choice based and closed ended questions were analysed by calculating the percentage based on the participants responded and the open-ended questions were analysed through content analysis.

A copy of the tool is appended. (Appendix - 1)

2. Construction of the Rating Scale for Collecting Data from Students: -

The present Rating scale was constructed on the basis of online education during COVID period. The tool included 26 statements and out of which 17 statements were given in positive (Item numbers: 1,2,3,4,5,10,11,12,13,14,15,16,17,21,23,25,26) and the remaining questions were given in negative form (Item numbers: 6,7,8,9,18,19,20,22,24). The questions were prepared based on the criteria such as Institutional Preparation, Teaching - Learning procedure, Students participation, Evaluation strategies and Parental Support. The institutional planning includes 3 questions (Item numbers: 1, 5, 17). Student participation includes 9 questions (Item numbers: 2, 3, 4, 13, 14, 15, 20, 21, 26). The difficulty faced by students involve 5 questions (Item numbers: 6, 7, 8, 18, 19). The teaching-learning procedure involves 2 questions (Item numbers: 9, 22). The teacher-pupil



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interaction involves 4 questions (Item numbers: 10, 11, 12, 25). The evaluation procedure involves 1 question (Item number: 16). The parental support involves 2 questions (Item numbers: 23, 24).

Scoring procedure: -

For the purpose of analysis, against each statement, 5 choices like strongly agree, agree, neutral, disagree, and strongly disagree. For the positive statement, a score of 5 is given if the response is "strongly agree", a score of 4 is given if the response is "agree", 3 for "neutral," and 1 for "disagree,.". For the negative statements the scoring procedure is reversed. A respondent can receive a maximum score of 130 and a minimum score of 26.

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