Lesson plan-10

Course : Human’s Biology
Code / Credit :
Semester : VI (odd)
Prerequisite : Animal’s Physiology

Basic Competence : 3. Understand structure and function of human digestive system
Indicators :
a. Understand and describe structure of digestive organs and their function
b. Understand and describe the process of digestion
c. Understand and describe digestive disorders and diseases related to digestive system

Topics (Subject Matter ) : Factors involved in child’s growth and development stages of growth feature of growths
Teaching – Model : Modified of Problem Based Learning (Seven Jumps)
Time Allocation : 2 x 50’
Syntax Teaching (Steps For Lecturer’s Activity) :

<table>
<thead>
<tr>
<th>Component (Step)</th>
<th>Lecturer’s Activity</th>
<th>Time Allocation</th>
<th>Method</th>
<th>Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>Aperception, giving students information about the problem based learning (seven jumps), Asking students to make a group of four</td>
<td>10’</td>
<td>Information</td>
<td>Presentation with PowerPoint</td>
</tr>
<tr>
<td>Teaching procedure</td>
<td>Principles of human digestive system: basic anatomy and physiology</td>
<td>10’</td>
<td>Lecture</td>
<td>Presentation with PowerPoint</td>
</tr>
<tr>
<td>Problem and Procedure finding</td>
<td>Facilitating student’s group discussion to look at the scenario and try to determine the problem of that scenario Guiding students to find: 1) important keywords, 2) make productive questions, 3) arrange principal questions and 4) discuss the possible answers</td>
<td>20’</td>
<td>Group discussion</td>
<td></td>
</tr>
<tr>
<td>Sharing</td>
<td>Asking students to swap their group’s questions and to discuss the other group’s questions, determining the problem and alternative solution</td>
<td>10’</td>
<td>discussion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Facilitating students’s presentation to share idea and opinion among groups</td>
<td>30’</td>
<td>Group presentation</td>
<td></td>
</tr>
<tr>
<td>clarification</td>
<td>Guiding students to develop the conclusion Clarifying and reinforcing student’s conclusion of summary</td>
<td>15’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Follow Up</td>
<td>Giving students a task to study the literature</td>
<td>5’</td>
<td>Assignment</td>
<td></td>
</tr>
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**STUDENT’S WORKSHEET (10)**
Topics : anatomy and physiology of stomach
Objective :
1. To describe basic structure of stomach
2. To define enzymes and hormones secreted by the stomach and their function
3. To describe any disorders related to stomach

Activity :
1. Draw a picture of human stomach (gaster)
2. Draw the histological view of stomach, define the cells and their secretion
3. Draw the concept of gastritis, ulcer and cancer based on your picture
Lesson plan-22

Course : Human’s Biology
Code / Credit : 
Semester : VI (odd)
Prerequisite : Animal’s Physiology

Basic Competence : 3. Understand structure and function of human endocrine system
Indicators :
   a. Understand and describe the concept of homeostasis, homeostatic regulation
   b. Understand and describe positive and negative feedback
   c. Understand and define “endocrine”
   d. Understand and describe hormones and their action mechanism
   e. Define and describe main endocrine glands, their secretion and function
   f. Give examples of some disorders (disease) related to endocrine system

Topics (Subject Matter) : Human Endocrine System
Teaching – Model : Lecture and Discussion
Time Allocation : 2 x 50’
Syntax Teaching (Steps For Lecturer’s Activity) :

<table>
<thead>
<tr>
<th>Component (Step)</th>
<th>Lecturer’s Activity</th>
<th>Time Allocation</th>
<th>Method</th>
<th>Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>Aperception, giving students some issues related to endocrine disorders Giving examplechild’s growth development</td>
<td>10’</td>
<td>Information</td>
<td>Presentation with Powert Point</td>
</tr>
<tr>
<td>Teaching procedure</td>
<td>Definition of endocrine and hormones Concept of homeostatis, feedback Hypothalamus hypophyseal axis Thyroid and parathyroid gland Pancreas Adrenal gland Other hormone-secreted organ</td>
<td>50’</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>Sharing</td>
<td>Facilitating students’s to share idea and opinion</td>
<td>20’</td>
<td>discussion</td>
<td></td>
</tr>
<tr>
<td>clarification</td>
<td>Guiding students to develop the conclusion Clarifying and reinforcing student’s conclusion of summary</td>
<td>10’</td>
<td>discussion</td>
<td></td>
</tr>
<tr>
<td>Follow Up</td>
<td>Giving students a task to collect other issues of endocrine from mass media</td>
<td>10’</td>
<td>Assignment</td>
<td></td>
</tr>
</tbody>
</table>
STUDENT’S WORKSHEET (22)
Topics : endocrine glands
Objective :  1. To define endocrine glands
            2. To describe structure function of endocrine glands
            3. To mention diseases related to the endocrine glands

Activity :  
1. Make three small groups consisting of 4 students
2. Discuss the picture below
3. Define the structure shown by number from 1 to 8
4. Describe their basic structure and their function
5. Mention the diseases related to the structures