AP BIOLOGY - TRAVEL BROCHURE OF THE BODY SYSTEMS

YOUR TEAM AT THE DUODENUM DYNAMICS ADVERTISING AGENCY HAS BEEN HIRED AS TRAVEL CONSULTANTS TO DESIGN A LUXURY TOUR THROUGH THE HUMAN BODY SYSTEMS. BEFORE YOU CAN COLLECT YOUR FEE FROM THE ANATOMY TRAVEL BUREAU OF CORAL SPRINGS, YOU MUST PRODUCE A BROCHURE. THE OWNER OF THE TRAVEL BUREAU, MR. ANAL SPHINCTER, HAS INFORMED YOU THAT IN ORDER TO WIN THE CONTRACT, YOU MUST HIGHLIGHT THE TRENDY SPOTS, THE EXCITING ACTIVITIES, AND THE IMPORTS AND EXPORTS OF THE AREAS. FOR INSURANCE CONSIDERATIONS, YOU MUST ALSO DISCREETLY MENTION ANY POSSIBLE DANGERS OR SPECIAL PRECAUTIONS THAT TOURISTS MIGHT ENCOUNTER IN VISITING THESE SYSTEMS.

YOUR WORLD BODY TOUR SHOULD INCLUDE VISITS TO THE FOLLOWING SYSTEMS:

1. DIGESTIVE (CH 41)
2. CIRCULATORY (CH 42)
3. IMMUNE (CH 43)
4. EXCRETORY (CH 44)
5. HORMONE SIGNALING (CH 45)
6. REPRODUCTIVE (CH 46)
7. NERVOUS (CH 48)

FORMAT:

- CONSTRUCTION PAPER FOLDED INTO A BROCHURE
- YOU MAY USE DRAWINGS, COMPUTER GRAPHICS, PHOTOS OF ACTUAL ORGANS, PICTURES FROM MAGAZINES, TO HELP IN YOUR ADVERTISEMENT OF EACH SYSTEM
- TYPE ALL WRITTEN PARTS OF BROCHURE
- EACH GROUP WILL ORALLY PRESENT ITS BROCHURE TO THE CLASS

GRADING RUBRIC:

CONTENT 40%

1 2 3 4 Info is accurate, factual & relevant
1 2 3 4 Research is in-depth & covers required areas
1 2 3 4 Time, energy, effort, enthusiasm are evident
1 2 3 4 Shows mastery of structure & function of systems

TRAVEL BROCHURE 40%

1 2 3 4 Brochure is neat & shows thought & effort
1 2 3 4 Brochure clearly illustrates all structures, functions & risks associated with travel to each system
1 2 3 4 Brochure shows creativity
1 2 3 4 Diagrams & graphics are used to supplement text

ORAL PRESENTATION 20%

1 2 3 4 Presentation is smooth & shows evidence of preparation
1 2 3 4 Presenters speak clearly & audibly

A score of 1 on each area of the rubric means that the element is missing
A score of 2 means the element is present, but it doesn't meet the standard described
A score of 3 means the element is present & meets the standard, but needs some revision or improvement
A score of 4 means the element is present & exceeds the standard & no revision or improvement is required

TOTAL POINTS

A 36 - 40 points
B 32 - 35 points
C 28 - 31 points
D 24 - 27 points
Travel Brochure of the Urinary System

Your team of 3 or 4 at the Duodenum Dynamics Ad Agency have been hired as a travel consultant to design a luxury tour through the Urinary System. Before you can collect your fee from the Anatomy Travel Bureau, you must produce a brochure. The owner of the travel bureau, Mrs. bun Sphincter, has informed you that in order to win the contract you must highlight the trendy pots, the exciting activities, and the imports and exports of the areas. For insurance considerations, you must also discreetly mention any possible dangers or special precautions that tourists might encounter in visiting this system. Give an overall sense of the organization and function of the system. You may use drawings, computer graphics, photographs of actual organs, etc. Use the laptops and textbooks to design and research the information required. Let your imagination run WILD! Each group will orally present its brochure to the class, and we will vote on which team gets the contract. The presentation will be on how the brochure was designed, not teaching the content.

Urinary System Objectives

1. Identify the following regions of a kidney (longitudinal section): hilus, cortex, medulla, medullary pyramids, calyces, pelvis, and renal columns
2. Recognize that the nephron is the structural and functional unit of the kidney and describe its anatomy: glomerulus, Bowman's capsule, collecting duct, proximal convoluted tubule, loop of Henle, distal convoluted tubule
3. Describe the process of urine formation, identifying the areas of the nephron responsible for filtration, reabsorption and secretion,
4. Briefly describe the 4 functions of the urinary system.
5. Describe the composition of normal urine and first abnormal components.
6. Diagram the general structure of the ureters, bladder, and urethra with a brief description of their functions.
7. Travel Warnings for the female urethra. Include length and why there is a risk of infection due to location.
   Male urethra length and dual function
   Define micturition, voiding, incontinence and urinary retention