



St. Joseph College of Teacher Education for Women Ernakulam



CRITERION II

2.4.4 Students are enabled to evolve tools of assessment for learning suited to the kinds of learning engagement provided to learners and to analyse as well as interpret responses

(Teacher made written tests essentially based on subject content)

Submitted to
National Assessment and Accreditation Council (NAAC)
3rd Cycle of Assessment



**ST. JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN ERNAKULAM
KOCHI-682035, KERALA**

2.4.4 Teacher made written test based on subject content

Tool of assessment	Documents showing different activities	Samples prepared by students	Page Number
Teacher made written tests	Workshop on preparation of Achievement Test	Achievement Test	1-6
	Workshop on the preparation of Diagnostic Test	Diagnostic test	7-16



ST JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN

Kovilvattom Road, Ernakulam, Kochi, Pin – 682035, Kerala
(Affiliated to Mahatma Gandhi University, Kottayam)

Workshop on Achievement Test Preparation

Name of the Event	Workshop on Achievement Test Preparation
Objectives	<ol style="list-style-type: none">1. To identify and explain reasons for performing tests2. To understand testing terminology to communicate with students and colleagues3. To evaluate a tests reliability and validity4. To select appropriate tests5. To administer test protocols properly and safely
Details of Event coordinators	St. Joseph College of Teacher Education For Women, Ernakulam
Dates	2022-23(29/10/2022),2021-22(12/11/2021-13/11/2021),2020-21(29/6/2020-30/6/2020),2019-20(24/6/2019-25/6/2019),2018-19(9/8/2018-10/8/2018)
Time	10.00 am to 12.00 pm
Duration	2 hours
Beneficiaries	Student teachers
Event Venue	St. Joseph College of Teacher Education For Women, Ernakulam

Programme Report

A workshop on Achievement test preparation was organized by the college on 29th October 2022 under the following objectives:to familiarize with preparation and administration of achievement test, to evaluate a tests reliability and validity, to select appropriate tests.The theoretical background of achievement test, objectives of achievement test, its importance were explained by teacher educators.What are the steps and how to prepare blue print was also explained by teacher educators on the first day of the workshop.





After the theoretical explanation of the teacher educator the students prepared a draft test with the help of teacher .Corrections were made and finalized the test. Teacher educators instructed the student teachers about the analytical part of the achievement test. During the internship the student teachers prepared the achievement test on the allotted portions and administered in the concerned class. All the details were reported in the record .statistical analysis and graphical representation of the data also was included in the research.



ACHIEVEMENT TEST



ACHEIVEMNT TEST

BIOLOGY

STANDARD: IX

MAXIMUM MARK :25

MAXIMUM TIME: 40 MINS

GENERAL INSTRUCTIONS: All the questions are compulsory. The instructions for each part is given.

PART- A

I. Name the following

($\frac{1}{2} * 4 = 2$ Marks)

1. The double layered protective membrane of the lungs
2. The volume of air we breathe in and out during normal breathing
3. The condition in which the amount of haemoglobin in the blood decreases.
4. The process of purifying blood with the help of artificial kidneys.

II. Read the statements given below. make corrections, if any in the portion underlined

($\frac{1}{2} * 2 = 1$ Marks)

5. Haemoglobin combines with carbon dioxide to form carboxyhaemoglobin.
6. Oxygen combines with calcium in the haem.

PART-B

III. Answer the following questions in one or two sentences

(1 * 5 = 5 Marks)

7. The nature club of your school is organising an awareness programme against alcohol consumption. Write a slogan that is suitable for this programme.

8. Joe's mother is ill and is showing the following symptoms :

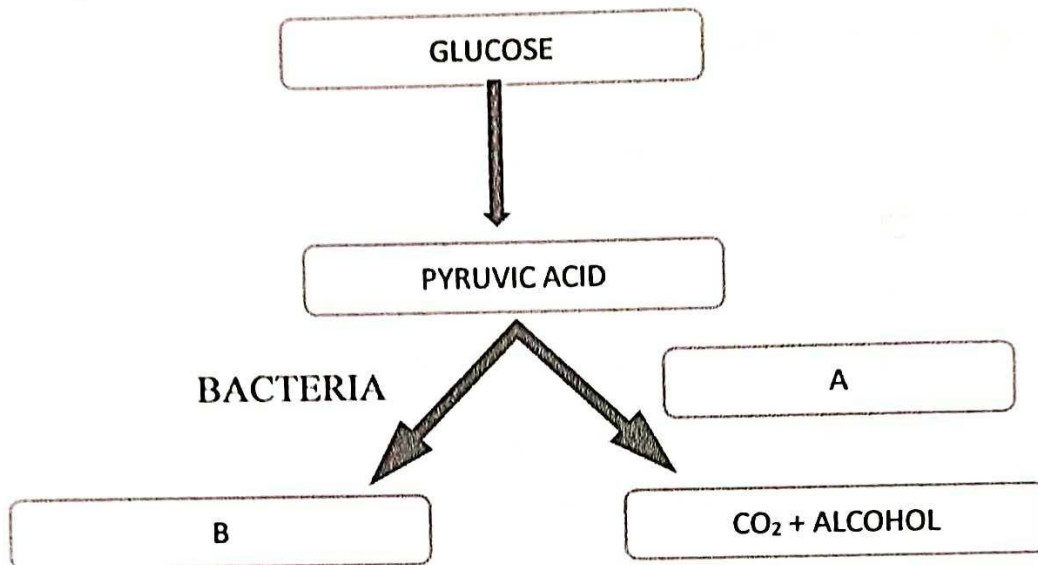
- | | |
|-----------------------------|---------------------|
| → Pain in the lower abdomen | → Blockage of urine |
| → Dizziness | → Vomiting |



Why is Joe's mother ill? Give any one reason for the occurrence of the disease?

9. Give reason as to why glucose, amino acids etc. that are found in the glomerular filtrate is absent in urine.
10. 'A single healthy kidney is enough to purify blood'. In the light of this statement prepare a placard promoting kidney donation.

11. Identify 'A' and 'B'.



PART C

IV. Answer the following questions

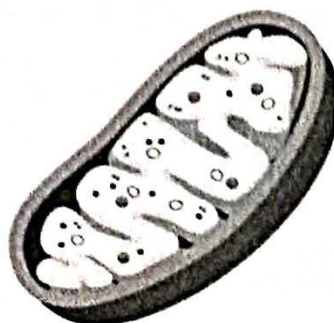
(2 * 5 = 10 Marks)

12. Classify the following organs appropriately under 2 headings

→ Malpighian tubules	→ Gills
→ Book lungs	→ Nephridia

13. 'Smoking is suicide and murder at the same time'. Do you agree with this statement? Justify your opinion.

14.

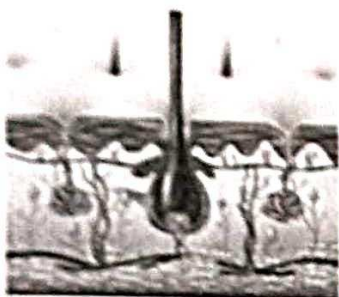


Represent the phase of cellular respiration that takes place in the above organelle in the form of an equation. Predict the number of ATPs produced as well as the environmental conditions required.

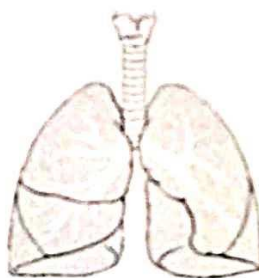
15. Liver is a waste processing unit. How?

16. Observe the diagram and explain how each of the organs participate in the process of excretion.

A.



B.



PART- D

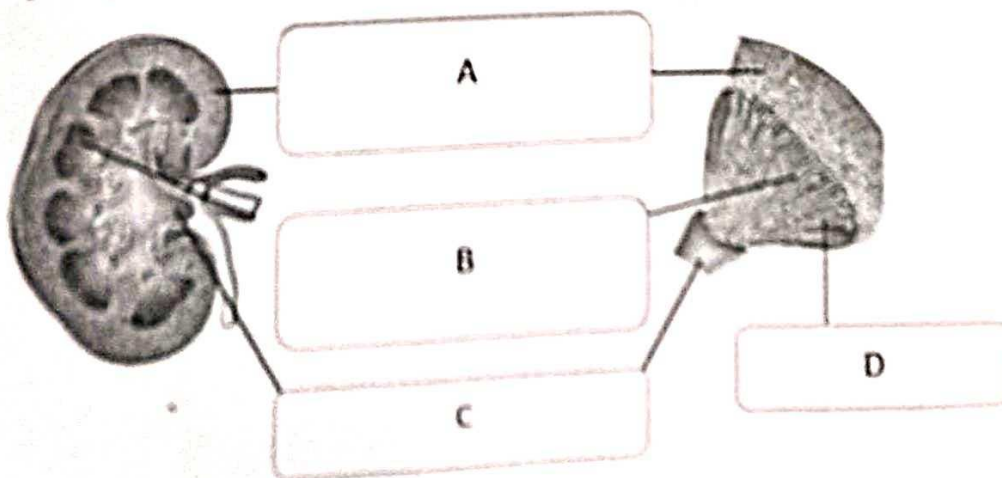
(1*3= 3 Marks)

17. A doctor advised that drinking 2-3 litres of water per day and proper urination will reduce urinary diseases. How is it possible?

PART- E

(1* 4= 4 Marks)

18. Identify the parts and write its peculiarities.



Done



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WORKSHOP ON PREPARATION OF DIAGNOSTIC TEST

Name of the Event	Preparation and evaluation of diagnostic test
Objectives	<ol style="list-style-type: none">1) To identify areas where students may need additional support or intervention.2) To provide a baseline measure of student understanding before instruction begins.3) To identify individual student needs and tailoring instruction accordingly.4) To evaluate the effectiveness of instructional programs and interventions.
Details of Event Coordinators	St. Joseph College of Teacher Education for Women, Ernakulam
Dates	2022-23(12/11/2023),2021-22(16/11/2021),2020-21(27/6/2020).2019-20(10/6/2019),2018-19(4/8/2018)
Time	2-4 PM
Duration	2hrs
Beneficiaries	Student Teachers
Event Venue	Respective schools

REPORT

College organized a training programme on the preparation of diagnostic test under the guidance of Mrs.Anu Cleetus. The diagnostic test preceded an achievement test. The student-teachers were first provided information about the achievement test, its purpose, scope and objectives.They were then asked to conduct the achievement test in their schools and identify the students who performed below average.The students who performed below average marks have taken as the sample for the diagnostic test.The teacher educator provided a deep insight to the student teachers about educational diagnosis, its theory, scope, steps





and purpose. The student teachers were then asked to choose a topic which most of the students found difficult to answer in the achievement test. Followed by this, the student teachers were asked to prepare a diagnostic test to test all types of difficulties that a student encounters while answering the questions related to the chosen topic. The diagnostic test underwent a series of corrections by the teacher-educator. After evaluating the diagnostic test, a diagnostic chart was prepared by the student-teachers under the guidance of the teacher-educator. The teacher-educator gave detailed information regarding how to analyse the diagnostic chart and identify the potential difficulties faced by each student. Based on this the teacher-educator was given an orientation on how to provide remedial lessons to the students and also explained the importance of post-test after the remedial lessons. The report on diagnostic test was submitted on 23-01-2023.



DIAGNOSTIC TEST



DIAGNOSTIC TEST

NAME OF THE SCHOOL: GOVT. GIRLS. H .S.S TRIPUNITHURA

NAME OF THE STUDENT:

SUBJECT:

UNIT: EXCRETION TO MAINTAIN HOMEOSTASIS

LEARNING POINTS: KIDNEY

1. Features of kidney
2. Kidney and associated parts
3. Internal structure of kidney
4. Formation of urine
5. Kidney diseases

1. How many kidneys are present in human beings?

- a) 3 b) 1 c) 2 d) 4

2. Kidneys are..... shaped

- a) round b) bean c) oval d) tubular

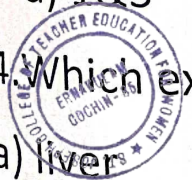
3. Which among the following statements are true about kidneys?

- 1) Kidneys are located in the abdominal cavity
- 2) Left kidney is located slightly higher than right kidney
- 3) Right kidney is located slightly higher than left kidney
- 4) Kidney is covered by a soft membrane

- a) 1 & 3 b) 3 & 4 c) 1, 2 & 4 d) 1, 2 & 3

4. Which excretory organ helps to maintain the homeostasis of body?

- a) liver b) kidney c) sweat gland d) lungs



5. Which blood vessel supplies blood to kidney?
 a) renal vein b) capillaries c) arterioles d) renal artery
6. Which blood vessel carries the filtered blood out?
 a) capillaries b) renal vein c) renal artery d) arterioles
7. The tube which carries urine to the urinary bladder is called.....
 a) ureter b) urinary tract c) urethra d) urinary bladder
- 8.....is the opening through urine expelled out from the body
 a) Urinary bladder b) urethra c) ureter d) Urinary tract
9. Which is the basic structural and functional units of kidney?
 a) capillaries b) medulla c) pelvis d) nephrons
10. Which among the following is not an internal part of kidney?
 a) cortex b) medulla c) renal vein d) renal artery
11. Which is the light coloured outer Part of kidney?
 a) cortex b) medulla c) pelvis d) glomerulus
12. Ultrafilters of nephrons are found on.....
 a) medulla b) cortex c) pelvis d) renal tubule
13. Which is the dark coloured inner part of kidney?
 a) pelvis b) cortex c) medulla d) capillaries
14. Long tubules of nephrons are found on.....
 a) cortex b) pelvis c) renal tubule d) medulla
15. Which is the region in kidney where urine from the filters flows in
 a) medulla b) cortex c) pelvis d) peritubular capillaries



6. How many ultrafilters are found on each kidney?
a) 12 b) 7 c) 20 d) 17

7. Bowmann's capsule isshaped
a) round b) cup c) oval d) bean

8. Which among the following statements are true about bowmann's capsule?

- 1) Bowmann's capsule has double layered walls
- 2) Bowmann's capsule is seen at the end of nephron
- 3) Bowmann's capsule has single layered wall
- 4) Bowmann's capsule is cup shaped

a) 1&3 b) 2&3 c) 1,2&4 d) 1,3&4

9. Capsular space is the space between.....

- a) cortex and medulla
- b) two walls of Bowmann's capsule
- c) medulla and pelvis
- d) afferent vessel and efferent vessel

20. The blood vessel that comes out of Bowmann's capsule is called.....

- a) efferent vessel b) glomerulus
- c) Afferent vessel d) peritubular capillaries

21. Which blood vessel is the branch of renal artery that enters the Bowmann's capsule?

- a) Afferent vessel b) Efferent vessel
- c) Glomerulus d) Peritubular capillaries



22. are the minute capillaries present on Bowmann's capsule

- a) Glomerulus.
- b) Efferent vessel
- c) Afferent vessel
- d) peritubular capillaries

23. Which blood capillaries are seen around the renal tubule?

- a) Glomerulus.
- b) Afferent vessel
- c) Efferent vessel
- d) Peritubular capillaries

24. Peritubular capillaries are the continuation of.....

- a) Afferent vessel
- b) Efferent vessel
- c) Collecting duct
- d) Renal tubule

25. connects the Bowmann's capsule and collecting duct

- a) Renal vein
- b) Renal tubule
- c) Ureter
- d) Peritubular capillaries

26. Renal tubules enters in to.....

- a) Collecting duct
- b) Glomerulus
- c) Efferent vessel
- d) Afferent vessel

27. In which part of nephron, absorption of water takes place?

- a) renal tubule.
- b) collecting duct
- c) peritubular capillaries
- d) glomerulus

28. Which part of nephron collects urine?

- a) glomerulus
- b) peritubular capillaries
- c) renal tubule
- d) collecting duct

29. Urine is carried to the.....

- a) renal tubule
- b) pelvis
- c) renal vein
- d) peritubular capillaries



30. Which among the following is not related to urine formation?

- a) secretion
- b) ultrafiltration.
- c) regeneration
- d) reabsorption

31. The first step in urine formation is.....

- a) reabsorption
- b) ultrafiltration
- c) absorption of water
- d) secretion

32. In which part of nephron ultrafiltration takes place?

- a) glomerulus
- b) renal tubule
- c) peritubular capillaries
- d) collecting duct

33. During ultrafiltration high pressure is developed in the.....

- a) renal tubule
- b) peritubular capillaries
- c) glomerulus
- d) renal artery

34. The difference in the diameter of afferent vessel and..... favours high blood pressure during ultrafiltration

- a) renal tubule
- b) efferent vessel
- c) peritubular capillaries
- d) renal artery

35. Glomerular filtrate is collected in.....

- a) collecting duct
- b) capsular space
- c) renal tubule
- d) glomerulus

36. During urine formation, essential components are reabsorbed to

- a) renal tubule
- b) collecting duct
- c) glomerulus
- d) peritubular capillaries

37. Which among the following components are completely reabsorbed during urine formation?

- a) renal tubule
- b) collecting duct
- c) glomerulus
- d) peritubular capillaries

1) glucose

2) water

3) amino acids

4) sodium

a) 1&2

b) 1&3

c) 2&4

d) 3&4

38. Which among the following components are partially absorbed during urine formation?

1) Na⁺

2) K⁺

3) Ca²⁺

4) water

a) 1,2&3.

b) 3&4.

c) 2&4.

d) 1,3 &4

39. The excess components retained in the blood are secreted to.....

a) collecting duct

b) glomerulus.

c) renal tubule

d) renal artery

40. Which among the following part of nephron is responsible for the absorption of excess water during the formation of urine?

a) renal tubule

b) collecting duct

c) glomerulus

d) peritubular capillaries

41. Which among the following is not a component of urine?

a) water

b) urea

c) amino acids

d) creatinine

42. The process of passing out of urine is called.....

a) secretion

b) micturition

c) absorption

d) filtration

43. Which among the following is not a function of kidney?

a) water balance

b) regulation of PH

c) salt balance

d) energy production

44. The bacterial infection in the inner membrane of urinary bladder is called.....



nephritis
Urinary tract infection

- b) uremia
- d) kidney stone

5. Which among the following is not a kidney disease?

Bronchitis
kidney stone

- b) nephritis
- d) uremia

6. Inflammation of kidneys due to infection or intoxication is called.....

kidney stone
urinary tract infection

- b) uremia
- d) nephritis

7. Which among the following disease is occur as a result of deposition of crystals of calcium salts in kidney?

nephritis
uremia

- b) kidney stone.
- d) emphysema

8. Appearance of turbid and dark coloured urine is a symptom of.....

uremia
kidney stone

- b) nephritis
- d) urinary tract infection

9. Blockage of urine is a major symptom of.....

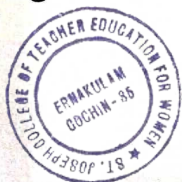
nephritis
uremia

- b) kidney stone
- d) urinary tract infection

10. Which among the following is not a reason for uremia?

diabetes.
high blood pressure

- b) nephritis
- d) respiratory disorders



Done

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