

## UNIVERSITY OF EDUCATION, WINNEBA INSTITUTE FOR TEACHER EDUCATION AND CONTINUING PROFESSIONAL DEVELOPMENT (ITECPD)



#### END OF FIRST SEMESTER EXAMINATIONS, APRIL, 2024

LEVEL 300

**COURSE CODE: JBI 352** 

COURSE TITLE: PREPARING TO TEACH JHS SCIENCE

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

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## **GENERAL INSTRUCTIONS:**

#### GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- The Section is made up of five essay type questions.
- Answer any THREE questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

# Instruction: Answer any three (3) questions in the answer booklet provided.

- 1. a) Explain the following concepts:
  - (i) Absorption
  - (ii) Assimilation

(iii) Emulsification

6 marks

b) In the test for a particular food substance, a student-teacher went through the following steps below. Use the steps to answer the questions that follow;

Step	Activity and Observation
1	Crush the food substance and add 1cm3 of water to it
2	1cm3 of Benedict solution was added but the blue
_	colour of the Benedict solution remained.
3	1cm3 of dilute Hydrochloric acid was added and
	heated in boiling water for about three minutes

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5	2cm³ of Benedict solution was added and he five minutes and an orange-red ppt was obs	served.
2 and 5 respective	r the difference in results obtained in steps ly.	2 marks
in steps 2, 3, and		3 marks
hydrochloric acid state the implicat (iv) Identify any othe used in steps 2 ar c) Your mentor used der teaching learners of a	dent-teacher decided to add saliva instead of d. Why do you think he wanted to do that, and ion of that to the activity in step 4. It reagent that can be used in place of the one add 4.  Immonstration method instead of activity method basic school science. Discuss <b>two (2)</b> condition mentor to use demonstration method.	4 marks  1 mark  in ons 4 marks
(i) Content (ii) Learnin (iii) Exemp b) <b>Three</b> colourless so respectively 8.4, 2 would you assist B. acidic solution, alk c) Discuss <b>four (4)</b> me	ng Indicator blar blutions labelled A, B and C whose pH values a and 7 are placed on a bench in the lab. How asic 7 learners to identify which of them is an aline solution and a neutral solution erits of teaching science to cognitively improve	6 marks
	of scientific concepts at the Basic level.  ujor function of gametes in reproduction in hum	
b) Describe the scient a dam safe for drinl c) Explain Scheme of		4 marks 14 marks 2 marks
b) Outline all the core	3) phases of the lesson plan. competencies specified in the curriculum. will teach the concept of Acids to JHS 1	6 marks 6 marks

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5 a) Discuss three (3) criteria that must be considered for selecting curriculum content for a lesson.

6 marks

b) Describe how you will assist JHS 1 learners to test for protein.

8 marks

c) Explain the following process skills:

- (i) Planning
- (ii) Observing
- (iii) Classifying

6 marks

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