051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/03/6/A

Perform Taxonomic Studies

Nov/Dec 2024



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

Candidate's]	Name					
Candidates C	CDACC Registration No.					
Assessor's Na	ame & Reg. code					
Assessor's Ro	eg. code					
Unit(s) of Co	mpetency					
Venue of Ass	essment					
Date of assess	sment					
Indicate the m	narks available and marks obt	ained, respectively.	Award mo	ırks appropi	riately as guided in	
the items for e	evaluation indicated. Give a b	rief comment where	necessary	' .		
	Itama ta ha avaluatada		Marks	Marks	Comments	
Items to be evaluated:			allocated obtained		Comments	
	OBSER	RVATION CHECK	KLIST	<u>l</u>		
i. Wore	the mask correctly	-OFT				
ii. Wore	closed flat shoes	wet.co				
iii. Wore gloves correctly						
iv. Wore lab coat		4				
(Award 1 ma	rk for each correct item, 1 m	ark × 4)				
	Sub total		4			
Task One: S	pecimen Y Observation					
i. Demo	nstrated how to use a microsco	ope				
a.	Plug into power source and	switched on				
(award 1 mark or 0)						
b.	b. Aligned the eye piece, objective and power					
source to illuminate the microscope		9				
	(award 2 mark or 0)					
c. Mounted specimen Y						
	(award 3 mark or 0)					
d.	Started with low power mag	nification lens and				
	proceed to medium, then hig	h-power lens				
	according the SOPs					

(award 3 ma	rk or 0)		
ii. Identified the specim			
(Award 1 mark or 0)	(Award 1 mark or 0)		
iii. Mentioned the kingd	om in which specimen Y belongs		
(Award 1 mark or 1)		1	
iv. Gave correct differen			
and Z.			
Y (bread mould)	Z (mushroom)		
Ascomycetes	Basidiomycetes		
Non-edible	Edible		
Can cause diseases	Most are not pathogenic		
Cannot grow on soil	Grow on soil substrate		
substitute	~		
Small sized	Large sized		
(Award 1 mark or 0	for each difference)		
	Sub-Total	15	
Task Two: observed the	morphology of specimen X		<u>'</u>
i. Observed the specim	en X		
a. Placed specin	nen X on a white tile		
(Award 1 ma	(Award 1 mark or 0)		
b. Made a general observation			
(Award 1 mark or 0)		1	
c. Used a hand lens to observe the upper part of			
the specimen			
(Award 1 mark or 0)		1	
d. Turned the specimen upside down and observed			
the lower side	e of the leaf	1	
(Award 1 ma	rk or 0)		
		I	i

	Features:			
	a. Compound leaves/Bi-pinnate	1		
	b. Deeply serrated margin on the leaves	1		
	c. Has sori on the lower part of the leaves	1		
	d. Green colored leaves	1		
	e. Oppositely arranged leaves	1		
	f. Leaf stalk	1		
	(Award 1 mark or 0 for each observable feature)			
iii.	Gave the correct name of the male and female			
	reproductive parts of specimen X			
	Male: antheridia			
	(Award 1 mark or 0)	1		
	Female: Archegonia			
	(Award 1 mark or 0)	1		
iv.	Described the sexual reproduction of plant X			
	(Award 2 mark for each correct item, 2x5)			
	Sub Total	11		
Tack		·		
Lask	Three: observed the morphology of specimen M and N	1		
i.	Three: observed the morphology of specimen M and N Observed the specimen M			
	Observed the specimen M	1		
i.	Observed the specimen M			
i.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0)			
i. a.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0)	1		
i. a.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0) Made a general observation and noted some features (Award 1 mark or 0)	1		
i. a. b.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0) Made a general observation and noted some features (Award 1 mark or 0)	1		
i. a. b.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0) Made a general observation and noted some features (Award 1 mark or 0) Used a hand lens to observe the dorsal part of the specimen (Award 1 mark or 0)	1 1		
i. a. b.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0) Made a general observation and noted some features (Award 1 mark or 0) Used a hand lens to observe the dorsal part of the specimen (Award 1 mark or 0)	1 1		
i. a. b.	Observed the specimen M Placed specimen M on a white tile using a pair of forceps (Award 1 mark or 0) Made a general observation and noted some features (Award 1 mark or 0) Used a hand lens to observe the dorsal part of the specimen (Award 1 mark or 0) Turned the specimen on the ventral side and observed using a hand lens (Award 1 mark or 0)	1 1 1 1		

ii.	Observed the specimen N			
a.	Placed specimen N on a white tile using a pair of	1		
	forceps(Award 1 mark or 0)			
b.	Made a general observation and noted some	1		
	features (Award 1 mark or 0)			
<i>c</i> .	Used a hand lens to observe the dorsal part of the	1		
	specimen (Award 1 mark or 0)			
d.	Turned the specimen on the ventral side and			
	observed using a hand lens (Award 1 mark or 0)	1		
е.	Observed the head of the specimen and noted			
	features (Award 1 mark or 0)	1		
iii.	Gave the correct identity of specimen M and N			
	M:Millipede			
	(Award 1 mark or 0)			
	(Award 1 mark or 0) N: Centipede (Award 1 mark or 0)	1		
	(Award 1 mark or 0)	1		
	Subtotal	12		
	GRAND TOTAL	42		

ASSESMENT OUTCOMES					
The candidate was found to be: (Please tick ($$) a	s appropria	te)			
Competent		Not yet competent			
(The candidate is competent if she/he scores 50	% or highe	r)			
Feedback from candidate:					
Feedback to candidate:					
Candidate's signature:	Date:				
Assessor's signature:	Date:				

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