BCB744 Biostatistics Exam – Assessment Template

Smit, A. J.

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Student imormation	
Student Name:	
• Student ID:	-
I. Task-by-Task Assessment & Scoring	
Task 1: Initial Processing (Weight: 10%)	
Components:	
• 1.1: Reading NetCDF	
• 1.2: Restructuring Data	
Scoring Scheme (per component):	
• Correct output shown: assign 100	
• Penalty: Incorrect variable naming (max -30):	
• Penalty: Poor presentation or formatting (max -20):	
Task Summary:	
• Average Task 1 Raw Score (0–100):	
• Task 1 Weighted Score (/10):	
• Final Task 1 Score (\times 0.10):	
Narrative Feedback (Task 1):	

Task 2: Exploratory Data Analysis (Weight: 10%)

Component 2.1: Weighted Mean Time Series (Two Parts)

• (1) Correct summary plot for weighted mean time series: assign 35
$-$ Penalty: Missing year \times quarter aggregation (max -10):
- Penalty: No exclusion of passes = 0 or area = NA (max -10):
- Plot correctness: assign 15
- Penalty: Poor formatting (max -10):
• (2) Correct pixel-level temporal analysis: assign 35
- Penalty: Fewer than 100 samples (max -10):
– Penalty: Missing year \times quarter \times pixel structure (max -10):
- Plot correctness: assign 15
- Penalty: Poor formatting (max -10):
Component 2.1 Score (0–100):
Component 2.2: Summary Statistics & Visualisations
• (1) Statistical summaries: assign 50
- Penalty: Incorrect grouping (max -15):
- Interpretation quality: (max 20):
• (2) Plotting: assign 30
- Penalty: Poor formatting (max -20):
Component 2.2 Score (0–100):
Component 2.3: Observation Density Map
 Plot correctness: assign 100 Penalty: Poor formatting (max -50):
Component 2.3 Score (0–100):
Task Summary:
• Average Task 2 Raw Score (0–100):

• Task 2 Weighted Score (/10):
• Final Task 2 Score (× 0.10):
Narrative Feedback (Task 2):
Took 2. Information Statistics Part I (Weight, 20%)
Task 3: Inferential Statistics – Part I (Weight: 20%)
Components:
• 3.1: Hypothesis Structure: Raw Score:
• 3.2: Model Choice & Implementation: Raw Score:
• 3.3: Justification & Assumptions: Raw Score:
• 3.4: Interpretation & Presentation: Raw Score: — Penalty: Poor writing or code/text blending:
Task Summary:
• Average Task 3 Raw Score (0–100):
• Final Task 3 Score (× 0.20):
Narrative Feedback (Task 3):
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Task 4: Assigning Kelp Observations (Weight: 20%)
Components:
• 4.1: Coastal Sections Assignment (70% of Task 4): Raw Score:
• 4.2: Biogeographical Provinces Assignment (30%): Raw Score:
Weighted Average Task 4 Score:
• (4.1 ×0.70 + 4.2 ×0.30):
Final Task 4 Score (× 0.20):
Narrative Feedback (Task 4):

Task 5: Inferential Statistics – Part II (Weight: 30%) Components: • 5.1: Section-wise Differences: Raw Score: _____ - Bonus: TukeyHSD (+5): $_$ - Penalty: Overcomplicated method (e.g., unmotivated LMM): _____ • 5.2: Province-wise Differences: Raw Score: - Bonus: TukeyHSD (+5): $_$ - Penalty: Overcomplicated method: _____ • 5.3: Interaction (Section × Province): Raw Score: Penalty: Overcomplicated method: _____ • 5.4: Temporal Trend by Province: Raw Score: - Penalty: Overcomplicated method: • 5.5: Seasonal Variability across Provinces: Raw Score: Penalty: Overcomplicated method: __ Task Summary: • Average Task 5 Raw Score (0–100): ___ • Final Task 5 Score (× 0.30): _____ Narrative Feedback (Task 5): Task 6: Final Write-up (Weight: 10%)

Scoring Scheme:

Clarity & Communication (report organisation, flow, language): ______/70
Critical Thinking (limitations, implications, insight): ______/30
Penalty: AI-generated text (-50%) or similar issues: ______
Total Task 6 Score (after deductions): _____
Final Task 6 Score (× 0.10): _____
Narrative Feedback (Task 6): _____

II. Final Mark Calculation

Task	Weighted Score
Task 1	/ 10
Task 2	/ 10
Task 3	/ 20
Task 4	/ 20
Task 5	/ 30
Task 6	/ 10
Subtotal	/ 100

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• Formatting / Document Structure (-0 to -15%):	
• Excess Output (-0 to -15%):	
Total Global Penalty (%): (max 40%) Final Exam Mark: % > Calculation: Subtotal × (1 - Penalty % / 100)	
III. Assessor Summary & Recommendations	
• Strengths:	
• Weaknesses:	
• Recommendations for Improvement:	