

R7725

Sub. Code

91BPEL

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2022

First Semester

Integrated Marine Biology

PROFESSIONAL ENGLISH FOR LIFE SCIENCES - I

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Mention any two co-operative behaviours in a group work.
2. Give example for Fact and Opinion.
3. Why is role play important for developing speaking skills?
4. What is scanning?
5. Fill in the blanks with appropriate word from the bracket.
(costly, beautiful, pure, white)
(a) I love _____ dress.
(b) We have not got _____ milk.
6. What are the three types of brainstorming?
7. Write the difference between creativity and imagination.
8. Give picture representation of like and dislike.

9. Write any two steps of making PPT.
10. Punctuate the following sentences:
- (a) Look at that Cow
- (b) Hi I am going to tour

Part B

(5 × 5 = 25)

Answer any **five** of the following questions.

11. Write five steps for opening a new file in a computer.
12. State True or False:
- (a) Lok Sabha gets dissolved every five years.
- (b) Rajyasabha is not a permanent body.
- (c) The verdict of Supreme Court is ultimate.
- (d) The first Speaker of free India is Sarojini Naidu.
- (e) The Press needs to play the role of a watch dog.
13. Attempt a paragraph with your immediate reaction on seeing the picture given below.



14. Rohit calls up Rajat to make a plan for the weekend. Complete the dialogue between Rohit and Rajat by filling in the gaps.

Rohit : (i) This weekend?

Rajat : I don't have any special plan.

Rohit : How do you like the idea (ii) the zoo?

Rajat : That sounds good, But I (iii) my parent's permission.

Rohit : I'll come to your house this evening and request your parents to allow you to join me to see the zoo.

Rajat : Ok.

Rohit : (iv) in the evening?

Rajat : Yes. They will be at home.

Rohit : (v)

15. Match the following words with their meaning:

- (a) Quay - possessing the skill of reading and writing
- (b) Literacy - the principles underlying all knowledge
- (c) Philosophy - a low ranking judicial officer
- (d) Magistrate - inner struggle
- (e) Conflict - a landing place built along a coastline.

16. Write a brief note on the personality you find in the picture:



17. Write a paragraph on Interview skills.
18. Write clear instruction to the stranger to reach Science Campus, Alagappa University from Karaikudi New Bus Stand.

Part C

(3 × 10 = 30)

Answer any **three** questions.

19. Write an essay on the role of trees in the rainforest.
20. The step is to fill the bath with water. Draw a flow chart for having a bath. Begin with Start and End box.
 - (a) Turn on the hot and cold taps.
 - (b) Is it too hot or cold? If it is, go to step 3, otherwise go to step 4.
 - (c) Adjust the hot and cold taps and go back to step 2.
 - (d) Wait for 2 minutes.
 - (e) Is the bath full? If it is, go to step 7, otherwise go to step 6.
 - (f) Go back to step 4.
 - (g) Turn off the hot and cold taps.
21. Sketch the mind map for the following.
 - (a) Micro-organisms
 - (b) Genetic Science
22. Write the basic instructional design for oral presentation through short films.
23. Explain the purpose of Punctuation.

R7726

Sub. Code

548101

M.Sc DEGREE EXAMINATION, NOVEMBER – 2022

First Semester

Integrated Marine Biology

PHYSICAL OCEANOGRAPHY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

1. Write a short note on JGOFS.
2. Write a short note on Argo float.
3. Define density of seawater.
4. What is eddy?
5. Write short note on rip current.
6. Define tide.
7. Define estuary.
8. Define shore line.
9. What is geostationary satellite?
10. Define cyclone.

Part B

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Discuss about finding of challenger expedition.

Or

- (b) Write a detailed note on post war development in oceanography.

12. (a) Write a detail note thermal property of seawater.

Or

- (b) Explain about colligative property of seawater.

13. (a) How ocean waves modified in the shallow depth.

Or

- (b) Give an account on flood tide.

14. (a) Write a note on type of estuaries.

Or

- (b) Write detail note on El Nino and its impacts.

15. (a) Write detail note on tropical cyclone.

Or

- (b) How satellite used in meterology.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Write a note on historical review of development of Oceanography.

17. Write a detail note on physical property of seawater.

18. Write detail note on ocean currents.
 19. Discuss about reasons for sea level rise and its impacts.
 20. Write a detail note on general circulation model of Earth atmosphere.
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R7727

Sub. Code

2MB1A1

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2022

First Semester

Integrated Marine Biology

Allied — I : GENERAL CHEMISTRY — I

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Define alloys. Write the alloys of copper and nickel.
2. Write any two applications of water gas and producer gas.
3. What is meant by ligand?
4. Write the catalytic applications of metal complexes.
5. Define hybridization. Give an example for sp^3 , sp^2 , sp hybridizations.
6. What are the sources of free radicals?
7. Write the reducing property of glucose.
8. Define primary and secondary structure of proteins.
9. Classify the face active agents.
10. Write the synthesis of soap.

Part B

(5 × 5 = 25)

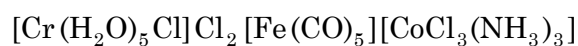
Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the zone refining method.

Or

- (b) What is meant by amalgam? Write the application of amalgam in organic reactions.

12. (a) Name the following complexes.



Or

- (b) Explain the M-C bonding in metal carbonyls.

13. (a) Explain *cis* and *trans* isomerism with suitable examples.

Or

- (b) Write note on elimination reaction.

14. (a) Explain the structure of sucrose.

Or

- (b) Write short notes on analgesics and antibacterial.

15. (a) Differentiate resins and plastics.

Or

- (b) Explain in details about anionic and cationic detergents.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Write the preparation and properties of producer gas and natural gas.
 17. Explain the structure of haemoglobin and myoglobin.
 18. What is meant by reaction intermediate? Explain the generation and structure of carbocation and carbanion.
 19. Explain the classification, properties and functions of amino acids.
 20. Write the properties of Bakelite, nylon-66, urea-formaldehyde resin.
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