

R-4522

Sub. Code

4532T2/
9HM2T1/
921T

M.A./M.Sc./B.Sc. DEGREE EXAMINATION, APRIL 2021

Second Semester

Integrated Home Science/Integrated Marine
Biology/Catering Science and HM

பொது தமிழ் தாள் – II இடைக்கால இலக்கியமும் சிறுகதையும்

(Common for M.A. Integrated Home Science/
M.Sc. Integrated Marine Biology/B.Sc. Catering Science
and Hotel Management)

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

பகுதி அ

(10 × 2 = 20)

அனைத்து வினாக்களுக்கும் விடை எழுதுக.

1. திருநாவுக்கரசர் - குறிப்பெழுதுக.
2. “அன்பும் சிவமும் ஒன்றென்றவர்” யார்?
3. சொல்லின் வகைகள் யாவை?
4. ஆகுபெயர் என்றால் என்ன?
5. நீவிர் அறிந்த சிறுகதையாசிரியர்களின் பெயர்களைக் குறிப்பிடுக.
6. சிறுகதை குறிப்பு வரைக.

7. தமிழ்ச் சிறுகதை உலகின் முடிகூடா மன்னன் என அழைக்கப்பட்டவர் யார்?
8. கலிங்கத்துப் பரணியின் ஆசிரியர் யார்?
9. சிறுகதைக்குரிய பண்புகள் யாவை?
10. சிறுகதைக்கும் புதினத்திற்கும் உள்ள வேறுபாடுகளை எழுதுக.

பகுதி ஆ

(5 × 5 = 25)

அனைத்து வினாக்களுக்கும் விடை எழுதுக.

11. (அ) குற்றாலக்குறவஞ்சியில் வசந்தவல்லி பந்தடிக்கும் காட்சிகளைப் புலப்படுத்துக.

(அல்லது)

(ஆ) திருவாசகத்தின் மேன்மையை வெளிக்கொணர்க.

12. (அ) நும் பாடப்பகுதியில் உள்ள சிறுகதைகளின் மையக் கருத்துக்களைப் புலப்படுத்துக.

(அல்லது)

(ஆ) நும் பாடப்பகுதியில் உள்ள சிறுகதைகளின் வாயிலாக வட்டார வழக்குச் சொல்லாடல்களை வெளிப்படுத்துக.

13. (அ) பெயர்ச் சொல்லுக்குரிய இலக்கணத்தைச் சான்றுடன் விளக்குக.

(அல்லது)

(ஆ) இடைச்சொல்லுக்குரிய இலக்கணத்தைச் சான்றுடன் விளக்குக.

14. (அ) திருஞானசம்பந்தரின் வேறுபெயர்கள் யாவை? விளக்குக.

(அல்லது)

(ஆ) பிள்ளைத்தமிழ் சிற்றிலக்கியம் குறித்து எழுதுக.

15. (அ) சிறுகதைக்குரிய இலக்கணத்தை விளக்குக.

(அல்லது)

(ஆ) நும் பாடப்பகுதியில் அமைந்த சிறுகதைகளுள் ஒரு சிறுகதை உணர்த்தும் உள்ளடக்கப் பொருண்மையை விளக்குக.

பகுதி இ

(3 × 10 = 30)

எவையேனும் மூன்று வினாக்களுக்கு விடை எழுதுக.

16. தமிழ்விடு தூது உணர்த்தும் தமிழ் மொழியின் பெருமைகள் குறித்துக் கட்டுரை வரைக.
17. நும் பாடப்பகுதியில் உள்ள சிறுகதைகளின் வாயிலாக சமூகச் சிந்தனைகளை வெளிக்கொணர்க.
18. வேற்றுமை என்றால் என்ன? அதன் வகைகளை உரிய சான்றுகளுடன் விளக்குக.
19. தமிழ் இலக்கிய வரலாற்றில் சிறுகதை இலக்கியத்தின் பங்களிப்பு குறித்துக் கட்டுரை வரைக.
20. உமக்கு ஏற்பட்ட வாழ்வியல் அனுபவமொன்றைச் சிறுகதையாகப் படைத்துக் காட்டுக.

M.Sc., DEGREE EXAMINATION, APRIL-2021

Integrated Marine Biology

Second Semester

FRENCH –II: CULTURE & CIVILISATION - II

(CBCS – 2019 Onwards)

Time: 3 Hours

Maximum: 75 Marks

SECTION – A
Answer All Questions

(10 X 1 = 10)

Choisissez la meilleure réponse :

1. Le Louvre est _____

- a] un fromage b] un vin c] un parfum d] un musée

2. _____ homme.

- a] ce b] cet c] cette d] ces

3. Quatre –vingt –douze : _____

- a] 92 b] 72 c] 82 d] 93

4. Je mange _____ pain.

- a] des b] de la c] du d] de

5. _____ stylo.

- a] Quelles b] Quelle c] Quels d] Quel

6. La Tour Eiffel est _____

- a] un café b] un parfum c] un monument d] un fromage

7. _____ banane.

- a] Les b] La c] Le d] L'

8. _____ pomme de terre.

- a] un b] une c] des d] de

9. La France est la _____ destination touristique mondiale depuis 1990.

- a] deuxième b] première c] troisième d] Quatrième.

10. J' _____ [apprendre] le français à l'université.

- a] apprend b] apprends c] apprenons d] apprenez

SECTION –B

(5 X 7 = 35)

Answer All the Questions, choosing either (a) or (b)

11 .a] Écrivez l'heure :

- i. 5 :25 am
- ii. 6 :30 am
- iii. 8 :45 am
- iv. 11 : 45 am
- v. 4 :00 pm
- vi. 7 :15 pm
- vii. 12 pm

[où]

b] Écrivez en lettres les nombres suivants .

- i. 66
- ii. 74
- iii. 83
- iv. 91
- v. 96
- vi. 57
- vii. 89

12 .a] Écrivez le nom des aliments.

[où]

b] Nommez les commerces et les commerçants.

13. a] Complétez avec le verbe entre parenthèses.

- i. Les Russes _____[célébrer] Noël la nuit du 6 au 7 janvier.
- ii. Je ne _____[se promener] jamais seule.
- iii. Tu me _____[rappeler] vers 5 heures ?
- iv. Est –ce que vous _____[projeter] un nouveau modèle de VTT ?
- v. Nous _____[acheter] toujours des produits frais, puis ma mère les _____[congeler]
- vi. Nous _____[manger] du pain.

[où]

b] Associez un plat avec sa région.

- | | |
|-----------------------------|-----------------------------|
| i. Le bœuf bourguignon | - a] La ville de Nice |
| ii. Le cassoulet toulousain | - b] L'Alsace |
| iii. La ratatouille niçoise | - c] La Bourgogne |
| iv. La quiche Lorraine | - d] La ville de Toulouse |
| v. La choucroute alsacienne | - e] La Lorraine |
| vi. La bouillabaisse | - f] Normandie |
| vii. Le camembert | - g] La ville de Marseille. |

14.a] Écrivez le contraire :

- i. Grosse
- ii. Long
- iii. Petit
- iv. Laide
- v. Paresseuse
- vi. Devant
- vii. Sur

[ou]

b] Complétez avec un adjectif démonstratif.[ce, cet, cette, ces]

- i. _____ musiciennes
- ii. _____ film de science –fiction.
- iii. _____ appartement.
- iv. _____ université.
- v. _____ artiste
- vi. _____ cadeaux
- vii. _____ arbre

15.a] Conjuguez les verbes au passé composé.

- Qu'est-ce que vous _____ [faire] ce week-end ? Vous _____ [aller] à la plage ?
_ Non, nous _____ [rester] en ville . Nous _____ [aller] au parc d'attractions
Avec les enfants et le soir nous _____ [inviter] des amis à la maison pour
le dîner . Dimanche ma femme _____ [visiter] le musée Picasso et avec les
enfants. Nous _____ [voir] un beau film au cinéma.

[où]

b] Conjuguez les verbes entre parenthèses au futur proche.

- i. Cet hiver Alain _____ [faire] une exposition pendant le << mois de la photo>>
- ii. Cet été , je _____ [ne pas partir]en vacances avec mes amis.
- iii. Je _____ [rester] chez moi.
- iv. Demain , nous _____ [voir] le nouveau spectacle de cet artiste.
- v. Est-ce que vous _____ [aller] au festival de cinéma de Marrakech cette année ?
- vi. Quand est-ce qu'elle _____ [acheter] les billets pour le théâtre ?
- vii. Vous _____ [sortir] ?On a réservé le restaurant pour 20 h 30.

SECTION –C

(3 X 10 = 30)

Answer Any Three Questions

16. Complétez la liste des ingrédients avec les mots ci- dessous .

[canette, bouteille, morceau , sachet , paquet, pot , tablette , douzaine , boîte , pincée]

- i. Un _____ de confiture
- ii. Un _____ de biscuits,
- iii. Une _____ de sel
- iv. Un _____ de sucre
- v. Une _____ de chocolat
- vi. Une _____ de coca
- vii. Un _____ de levure
- viii. Une _____ de conserve
- ix. Une _____ d'eau
- x. Une _____ d'œufs.

17. Lisez l'article. Répondez aux Questions.

Comment les Français passent leur temps libre ?

Voici une enquête intéressante. sans grande surprise , le cinéma est le loisir préféré. C'est une véritable passion pour les Français. En effet, 25 % des personnes interrogées vont régulièrement dans les salles de cinéma.

La musique arrive deuxième dans le classement .21% des Français fréquentent les salles de concert et beaucoup apprennent à jouer d'un instrument : la flûte, le violon ou le piano.19 % des français préfèrent la photographie. Pourquoi ? Aujourd'hui, il est si facile de prendre des photos avec son téléphone portable ou son Smartphone ! Plus besoin de matériel cher ou Complicé. De plus , beaucoup de sites Internet permettent de mettre ses photos personnelles en ligne très facilement.

Le voyages arrivent en cinquième position [14 %] et les activités sportives représentent 7% de l'activité des Français. Ah ! Les Français et le sport , c'est toute une histoire !

1.Ce document ...

- a] donne des conseils pour le temps libre.
- b] décrit une journée –type des Français.
- c] parle des loisirs des Français.

2. Le cinéma est appréciée par

- a] Un Quart des personnes interrogées.
- b] un tiers des personnes interrogées.
- c] la moitié des personnes interrogées.

3. Que font les Français qui sont intéressés par la musique ? [2 réponses]

- a] Ils achètent des CD.
- b] Ils prennent des cours.
- c] Ils assistent à des spectacles.
- d] Ils écoutent de la musique à la radio ou sur internet.

4. En quelle position est classée la photographie ?

- a] Deuxième.
- b] Troisième.
- c] Dernière.

5. En quatrième position , il y a

- a] le jardinage.
- b] le sport
- c] on ne sait pas.

6. Les Français sont très sportifs.

- a] Vrai
- b] faux
- c] on ne sait pas

18. Traduisez en anglais .

- a. L'année dernière , Sophie est allée à Londres pour participer à un festival de musique pop.
- b. Dans deux jours ,je vais au théâtre avec mon amie .
- c. Hier ,j 'ai vu le dernier film de Tarantino mais je ne me suis pas amusée.
- d. Nous n'avons pas réussi à réserver la visite guidée du musée.
- e. Il y a trois jours ,ma sœur a acheté une tenue de soirée pour la fête du Lycée.
- f. La directrice a beaucoup apprécié ton article.

19. Écrivez la recette du plat de votre choix.

20. Vous aller manger dans un restaurant avec votre ami . Écrivez le dialogue entre vous et Le serveur.

R5393

Sub. Code

922CE

ALL U.G., DEGREE EXAMINATION, APRIL –2021

Second Semester

Part-II-COMMUNICATIVE ENGLISH-II

(Common for all UG Programmes)

(CBCS – 2020 Onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all the** questions.

1. Write two expressions used in accepting a complaint.
2. Write two expressions used when one gently disagrees
3. Suggest few tips to your friend while preparing a welcome speech
4. Combine the sentences using conjunctions given in brackets:
 - (a) You will pass. Work hard. (if)
 - (b) I will call you. I finish my work. (when)
5. What are some tips to make a good presentation?
6. How to overcome the stage fright? write few ideas
7. What should be informed to a person before the meeting begins?
8. Write two expressions To seek clarification.
9. Introduce yourself

10. What skills are expected from an interviewee in any interview?

Part B

(5 × 5 = 25)

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

11. (a) In each of the following sentences, a word or phrase has been underlined. From the choices given, select the closest antonym for it.
- (i) The detectives found the evidence very illuminating.
- (1) delightful
 - (2) unclear
 - (3) too many
 - (4) sad
- (ii) My physics teacher used an interesting experiment to teach us that magnetic like poles repel.
- (1) rebel
 - (2) go away
 - (3) attract
 - (4) mix
- (iii) The plane could not take off at the scheduled time.
- (1) taken in
 - (2) give off
 - (3) give on
 - (4) land

(iv) The edges of the furniture were smooth.

- (1) rough
- (2) silky
- (3) spiky
- (4) sharp

(v) The explorer undertook a very arduous journey.

- (1) difficult
- (2) dangerous
- (3) easy
- (4) long

Or

(b) Write a paragraph on the proverb given, in about 10 lines:

"As you sow, so will you reap"

12. (a) Fill in the blanks with suitable conjunctions --and, or, but, although, till, because, though.

- (i) Prem called out to her to stop, _____ she continued walking.
- (ii) How does the fruit taste? sweet _____ sour?
- (iii) Is Rani playing _____ studying?
- (iv) John _____ David went to the library yesterday.
- (v) I lost the prize _____ I tried my best

Or

(b) Fill the blanks with the appropriate interjection.

(i) _____ What are you doing there?

(ii) _____ He is dead.

(iii) _____ We have won the game.

(iv) _____ Have they gone?

(v) _____ I got such a fright.

13. (a) What are some Common Barriers for Effective Presentation?

Or

(b) Prepare an effective Power Point Presentation (PPT) for the following topic

Social Media

14. (a) Write expressions for the following that helps you to participate in a meeting both online and offline.

(i) To ask for inputs

(ii) Concluding Remarks

(iii) To Interrupt

(iv) To seek clarification

(v) To add a point

Or

(b) View this picture and offer your comments.



15. (a) Write a letter of application to the Principal of an arts and science college, applying for the post of an Assistant Professor.

Or

- (b) Fix the following nouns in the correct column.

a favour	a look	someone's temperature
a phone call	nothing	money
taxi	an effort	your best
furniture	the washing up	the dishes
your hair	your time	homework

DO HAVA MAKE TAKE

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. (a) Choose the appropriate adverb from the options given:
- The aeroplane landed _____ on the runway. (shyly/safely/delightfully)
 - The judge told him to answer the questions _____ (truthfully/sleepily/casually)
 - The cab driver drove _____. I was scared. (gently/recklessly/funnily)
 - If you want to be fit, eat _____ (greedily/healthily/frugally)
 - Misers save money by living _____. (frugally/lavishly/cheerfully)

- (b) Fill in the blanks with the appropriate word:
- (i) She is _____ the sweetest of the four girls (by chance/by far/by and by)
 - (ii) Of the three businessmen, Suraj is _____ the wealthiest (easier, easiest, easily)
 - (iii) After her parents arranged individual tuition she learnt _____ quickly (a bit more, little, nicely)
 - (iv) You can cook _____ quickly if you have a three-burner stove. (far, far more, far and more)
 - (v) You can make it _____ more interesting with visuals. (a great deal /deal/ great)

17. Prepare a two-minute speech to be given on the following informal occasion.

Teacher's day celebrations

18. For each the words given in bold and underlined in the following sentences identify their equivalent phrases from the list given at the end.
- (a) One of the first things a scholar is taught that is that it is wrong to plagiarise.
 - (b) One of the guiding principles of any kind of writing is to write about the events chronologically.
 - (c) We must realise that however clever or intelligent we may be we are never infallible.
 - (d) That school has a very well equipped gymnasium.
 - (e) We were very lucky to get a chef who was familiar with different kinds of cuisine.
 - (f) Female foeticide has been one of the major issues in our country.
 - (g) King Edward VIII's decision to abdicate the throne has become legendary.

- (h) In the stories by Richmal Crompton, William Brown's father often told him that he was incorrigible.
- (i) The box contained an assortment of chocolates.
- (j) Many spiritual leaders tell us that it is important to introspect.

[Incapable of making mistakes or being wrong,

Professional cook,

To renounce the throne,

Beyond reform,

To pass off another's work as one's own

Remarkable and therefore very famous,

Look inwards to examine one's motives,

A collection of different types of the same thing,

Killing of an unborn child (in the womb),

**A room equipped for gymnastics, games and physical
exercise,**

In the order in which the events occurred]

19. Write down the positive and negative connotations for the following words

Youthful, poised, utilize, merry, juvenile, probe. choosy, lean, forceful economic

20. Choose the most suitable collocations

- (a) The mobile phone is faulty / wrong
- (b) My motorcycle is quite old. So, getting spare/exchange parts is difficult.
- (c) When you are parking in the parking lot, you should not leave the engine working / running.
- (d) The fireman had to wear the breathing masks / apparatus while putting out the forest fire.
- (e) I had to walk six flights of stairs because the lift was out of order/ service.

- (f) Can I ring you again / call you back?
 - (g) Could you please put it into the contract, please? I would like to have it in ink / black and white.
 - (h) The flora and fauna / flowers and animals of this island are unique.
 - (i) The important role of detective / investigative journalism is uncovering corruption.
 - (j) Please do not sing out of tune / off the tune.
-

R5578

Sub. Code

92BPEL

M.Sc. DEGREE EXAMINATION, APRIL – 2021.

Second Semester

Integrated Marine Biology

PROFESSIONAL ENGLISH FOR LIFE SCIENCE – II

(CBCS – 2020 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Write few safety measures to be followed in public transports during the period of COVID 19.
2. Differentiate between fact and opinion from the below given sentences.
 - (a) Strawberries taste better than blueberries.
 - (b) The leaves of growing plants are usually green.
3. Draw sleeping and crying emojis.
4. Rearrange the following sentence in correct order
in/ disturbs/cycle/change/rain/temperature/the/the

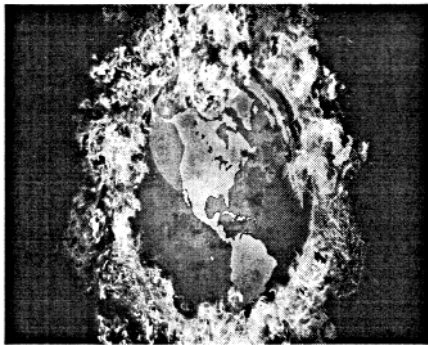
5. Choose the correct one-word substitution for the explanations given below.

(Physicist/Astrologer)

A scientist who specializes in the field of physics.

A person who uses astrology to tell others about their character or to predict their future.

6. Why was the UN established?
7. What happened in the year 1919?
8. Abbreviate the following
- (a) ISRO (b) WHO
9. The term "republic" is derived from the Latin word 'respublics' which means "concern of the people". Write any two words related to 'Republic.'
10. Write a suitable caption for the following image.



Part B

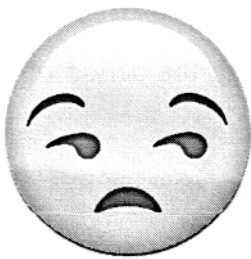
(5 × 5 = 25)

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

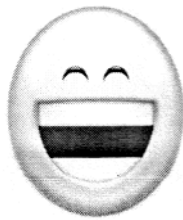
11. Here are some expressions of emotions and feelings and below the expressions there are emojis. Match the expressions with the corresponding emojis.

- (a) Sick
- (b) Sad eyed
- (c) Freezing
- (d) Evil
- (e) Laughing

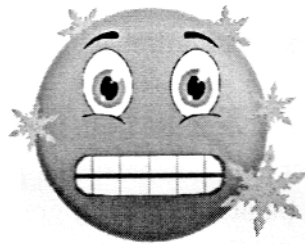
A.



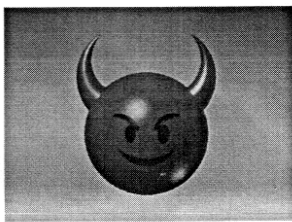
B.



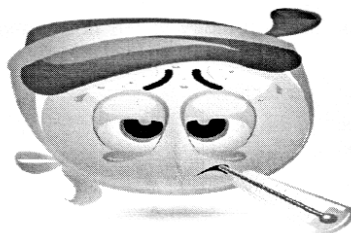
C.



D.



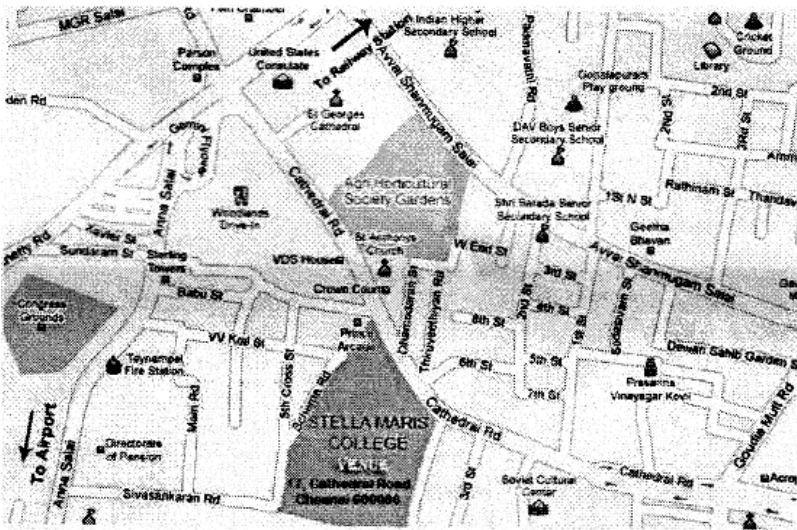
E.



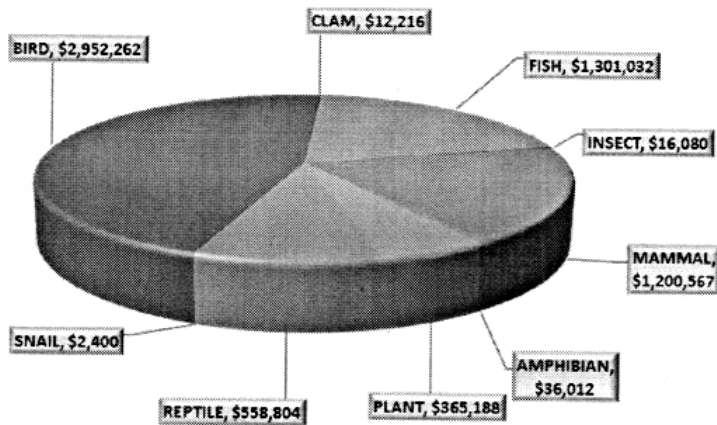
12. Write a note on the personality given below:



13. Write FIVE clear instructions to a stranger to reach the Stella Maris College from the Prasanna Vinayagarkovil.

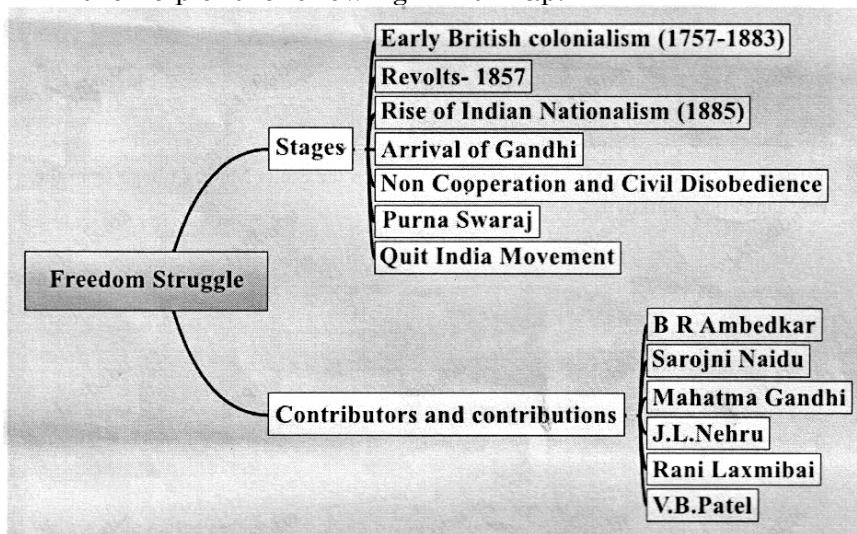


14. Observe the following pie-chart. Match correctly the items with their category. An example is given for you.



Example: Amphibian- Frog, Toad

- (a) Reptile- Peacock, Parrot
 - (b) Mammal- Snake, Lizard
 - (c) Plant- Cat, Dog
 - (d) Bird- Salmon, Tuna
 - (e) Fish- Aloe vera, Marigold
15. Write a paragraph on the Indian freedom struggle with the help of the following Mind Map.



16. Here is a conversation between a Doctor and a Patient buying shoes. Frame the questions for the answers.

Patient: _____

Doctor: Yes, of course. How are you feeling today?

Patient: _____

Doctor: Oh, sorry to know, are you taking the medicine that I prescribed you?

Patient: _____

Doctor: Keep patience, it's only a week. You need to wait more and check the improvement because your problem is so tough and uncommon.

Patient: _____

Doctor: Have you finished the medicines that I prescribed?

Patient: _____

Doctor: Then, I am giving some tests here, go to the test room and do these, and I will prescribe a few more medicines after seeing the test result. Now take this paper and go for tests.

Patient: _____.

Doctor: You are welcome.

17. "Health is Wealth"- Expand the proverb in a paragraph.
18. Write five instructions for creating a PowerPoint presentation.

Part C

(3 × 10 = 30)

Answer any THREE of the following questions.

19. Look at the following picture, understand the situation and write a passage of ten sentences.



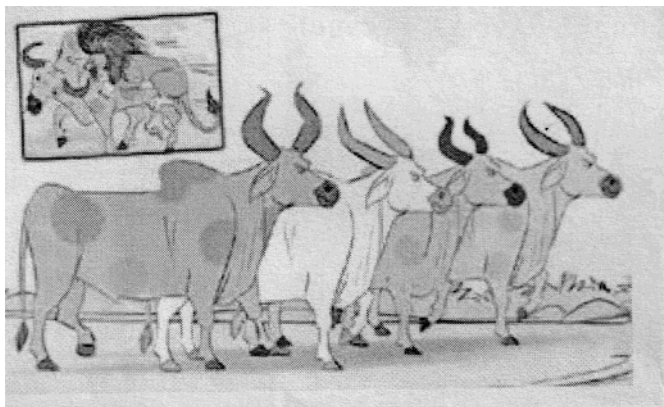
20. Read the following extract answer the questions given below in a sentences or two.

Nature writing is nonfiction or fiction prose or poetry about the natural environment. Nature writing encompasses a wide variety of works, ranging from those that place primary emphasis on natural history facts (such as field guides) to those in which philosophical interpretation predominate. It includes natural history essays, poetry, essays of solitude or escape, as well as travel and adventure writing. Nature writing often draws heavily on scientific information and facts about the natural world; at the same time, it is frequently written in the first person and incorporates personal observations

of and philosophical reflections upon nature. Modern nature writing traces its roots to the works of natural history that were popular in the second half of the 18th century and throughout the 19th. An important early figure was the “parson-naturalist” Gilbert White (1720 — 1793), a pioneering English naturalist and ornithologist. He is best known for his *Natural History and Antiquities of Selborne* (1789).

Answer the following

- (a) What does Nature writing emphasize?
 - (b) Based on the passage what is the period to which the modern nature writing can be traced.
 - (c) Summarize the above passage in two or three lines.
 - (d) Which word aptly describes the word “reflections” as used in the passage?
 - (e) According to the passage, what kind of works are written as part of nature writing?
21. Discuss the effects of COVID-19 on society (e.g. human interactions, career choices, tourism...)
22. Write a story in your own words on the familiar theme of ‘The Lion and four bulls’ based on the picture given below.



23. Prepare a Power Point Presentation (PPT) on the following passage with the minimum of FIVE slides.

Unemployment refers to a situation in which a skilled and talented people wanted to do a job. But cannot find a proper job due to several reasons. Now we know what is unemployment but unemployment does not only mean that the person does not have a job. Likewise, unemployment also includes people working in areas out of their expertise. The various types of unemployment include disguised unemployment, seasonal unemployment, open unemployment, technological unemployment, structural unemployment. Besides, some other unemployment is cyclic unemployment, educated unemployment, underemployment, frictional unemployment, chronic unemployment, and casual unemployment. Above all, seasonal unemployment, under unemployment, and disguised unemployment are the most common unemployment that is found in India. In a country like India, there is much reason for a large section of the population for being unemployed. Some of these factors are population growth, slow economic growth, seasonal occupation, slow growth of the economic sector, and fall in the cottage industry. Moreover, these are the major reason for unemployment in India. Also, the situation has become so drastic that highly educated people are ready to do the job of a sweeper. Besides, the government is not doing his work seriously. Apart from all these, a large portion of the population is engaged in the agricultural sector and the sector only provides employment in harvest or plantation time. In addition, the biggest reason of unemployment in India is its vast population which demands a large number of jobs every year which the government and authorities are unable to provide. If things will go on like the current scenario then unemployment will become a major issue. Apart from this, the following things happen in an economy which is an increase in poverty, an increase in crime rate, exploitation of labor, political instability, mental health, and loss of skills. As a result, all this will eventually lead

to the demise of the nation. The government has taken the problem very seriously and have taken measures to slowly reduce unemployment. Some of these schemes includes IRDP (Integrated Rural Development Programme). DPAP (Drought Prone Area Programme), Jawahar Rozgar Yojana, Employment Assurance Scheme, NRY (Nehru Rozgar Yojana), Training for self-Employment, PMIUPEP (Prime Minister's Integrated Urban Poverty Eradication Program), employment exchange, Employment Guarantee Scheme, development of organized sector, small and cottage industries, employment in forging countries, and Jawahar Gram Samridhi Yojana and few more. Besides, these schemes the government also make some rules flexible, so that employment can be created in the private sector also. To conclude, we can say that the problem of unemployment in India has reached a critical stage. But, now the government and local authorities have taken the problem seriously and working on it to reduce unemployment. Also, to completely solve the issue of unemployment we have to tackle the main issue of unemployment that is the vast population of India.

R-4526

Sub. Code

9HM2S1/9BV2G1/7BES2

UG DEGREE EXAMINATION, APRIL – 2021

Second Semester

ENVIRONMENTAL STUDIES

**(Common for B.Sc. Catering Science and Hotel Management/
B.Voc., Fashion Technology/B.Voc., Software Development/
M.Sc. Integrated Marine Biology/B.Sc. Yoga/BFA painting/
BPA Bharathanatyam/BPA Music (Vocal))**

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Section A

(10 × 2 = 20)

Answer **all** the questions.

1. Sustainable utilisation.
நிலையான பயன்பாடு.
2. What is meant by natural gas?
இயற்கை எரிவாயு என்றால் என்ன?
3. Define biotic resources.
உயிரியல் ஆதாரங்களை வரையறுக்க.
4. Public awareness.
விழிப்புணர்வை வரையறுக்கவும்.
5. Give an examples of an inverted pyramids.
பிரமிடுகள் எதிர்மறை வரிசைகளை எழுதுக.
6. Define Grassland.
புல்வெளி பற்றி எழுதுக.
7. Define IUCN.
ஐயுசிஎன் வரையறு.
8. What is meant by In-situ conversion of biodiversity?
அகச்சூழல் பாதுகாப்பு - வரையறு.
9. Define pollution.
மாசுபாடு பற்றி வரைக.
10. Mention any two controlling measures on indoor air pollution.
உட்புற காற்று மாசுப்பாட்டை கட்டுப்படுத்தும் இரண்டு காரணிகள்.

Section B

(5 × 5 = 25)

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

11. (a) Give an account on importance of environmental science.

சுற்றுச்சூழல் அறிவியலின் முக்கியத்துவம் பற்றி சுருக்கமாக எழுதவும்.

Or

- (b) What are the importance of environment is essential for public awareness?

சூழல் பற்றிய முக்கியத்துவம் பற்றி விழிப்புணர்வு ஏன் அவசியம்?

12. (a) What are the causes of deforestation?

காடுகளை அழிக்கும் காரணங்கள் என்ன?

Or

- (b) What are the effects and causes of land degradation?

நிலசீரழிவு ஏற்படுத்தும் விளைவுகளை ஒரு குறிப்பு எழுதவும்.

13. (a) Give an account on function of ecosystem.

சுற்றுச்சூழலின் செயல்பாடுகளை சுருக்கமாக எழுதவும்.

Or

- (b) Bring out the importance of maintaining balanced ecosystem.

சுற்றுச்சூழல் பராமரிப்பின் முக்கியத்துவம் பற்றி எழுதுக.

14. (a) Describe various causes and depletion of biodiversity.

பல்லுயிரியலின் வீழ்ச்சியின் பல்வேறு காரணங்களை விவரிக்கவும்.

Or

- (b) What is meant by Green house effect and its causes.

பசுமைக்குடில் என்றால் என்ன அதன் காரணங்கள் மற்றும் விளைவுகளை எழுதுக.

15. (a) Discuss about the solid waste management.

திடக்கழிவு மேலாண்மை பற்றி சிறு குறிப்பு வரைக.

Or

- (b) How to control the measures of air pollution?

காற்று மாசுபாட்டை எவ்வாறு கட்டுப்படுத்துவது என்பதை தெரியப்படுத்தவும்

Section C

(3 × 10 = 30)

Answer any **three** questions.

16. Write in detail about the Public awareness on environment.

சுற்றுச்சூழலின் பொதுவான விழிப்புணர்வுப்பற்றி மக்களின் கருத்துக்களை விரிவாக எழுதவும்.

17. Describe in detail about renewable and non-renewable resources.

புதுப்பிக்கத்தக்க மற்றும் புதுப்பிக்க இயலாத ஆற்றல் வளங்களை விரிவாக விளக்குக.

18. Elaborately about the concept and structure and function of ecosystem.

சுற்றுச்சூழல் மாசுபாட்டின் குறிப்பு அதன் அமைப்பு செயல்பாட்டினை தெளிவாக விரிவாக எழுதவும்.

19. Explain in detail about the values of biodiversity.

பல்லுயிரியத்தின் மதிப்பினை விரிவாக, தெளிவாக பட்டியலிடுக.

20. Describe an environmental friendly method applied profitably dispose of human waste and cattle waste.

மனித கழிவுகளையும் மற்றும் கால்நடை கழிவுகளை சுற்றுச்சூழல் கெட்டுவிடாமல் அகற்றும் முறைகளை விரிவாக எழுதவும்.

R-4659

Sub. Code

548201

M.Sc. DEGREE EXAMINATION, APRIL 2021

Second Semester

Integrated Marine Biology

BIOLOGICAL OCEANOGRAPHY

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is marine biodiversity?
2. Define Holoplankton.
3. Harmful Algal Blooms.
4. Note on Bay of Bengal.
5. What is secondary productivity?
6. Define bioindicators.
7. What is seagrass and its importance?
8. What is sand dune?
9. Explain about the mutualism.
10. Note on parasitism relationship in the ocean.

Part B

(5 × 5 = 25)

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

11. (a) Explain factors affecting life in the sea.

Or

- (b) Describe coastal environment with diagram.

12. (a) How do you estimate of primary productivity?

Or

- (b) Describe on harmful algal bloom.

13. (a) Give an account on distribution of plankton.

Or

- (b) Write a note on factors affecting secondary productivity.

14. (a) Explain about economical importance of seaweeds.

Or

- (b) Write detail note on of saltmarsh vegetation.

15. (a) Describe the impotence of symbiosis.

Or

- (b) Elaborate the parasitism and its impacts.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Describe the classification of marine environment and marine organism.
17. Write an essay on impact of red tide on humans.

18. Describe about factors affecting the primary productivity.
 19. Explain the distribution adaptation and ecological role of mangroves.
 20. Write an essay on animal association in the marine environment.
-

R-4660

Sub. Code

548202

M.Sc. DEGREE EXAMINATION, APRIL 2021

Second Semester

Integrated Marine Biology

ECOLOGY AND ZOOGEOGRAPHY

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Nekton
2. Endemism
3. Food-web
4. Ecological pyramid
5. Dispersal
6. Interspecific
7. Stability
8. Resilience
9. Over-exploitation
10. Biodiversity.

Part B**(5 × 5 = 25)**

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

11. (a) Describe pelagic environment.

Or

- (b) Write note on estuaries.

12. (a) Discuss the recycling of nutrients in marine ecosystem.

Or

- (b) Expound the marine ecosystem services.

13. (a) Comment on the carrying capacity of an ecosystem.

Or

- (b) Write briefly the density dependent factors in a population.

14. (a) Explain animal association in the sea.

Or

- (b) Write note on diversity and stability of a marine community.

15. (a) Discuss the biodiversity assessment techniques.

Or

- (b) Write note on alien species.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Give an account of the planktonic adaptations in marine environment.
 17. Write briefly the characteristics of a marine ecosystem.
 18. Expound the prey-predator relationship in an ecosystem.
 19. Illustrate the fouling and boring community in a marine ecosystem.
 20. Describe the major threats to marine biodiversity.
-

R-4661

Sub. Code

9MB2A1

M.Sc. DEGREE EXAMINATION, APRIL 2021

Second Semester

Integrated Marine Biology

Allied II — GENERAL CHEMISTRY — II

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All question carry equal marks

1. Who invented dynamite?
2. How does corrosion occur in metals?
3. Define sublimation.
4. Write the principle of ion exchange chromatography.
5. What are the three main types of fertilizers?
6. Write the importance of Rhizobium.
7. What is the difference between L and D amino acids?
8. Define proteins.
9. What is the percentage composition of blood?
10. How terylene is formed?

Part B**(5 × 5 = 25)**

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

11. (a) Write short notes on TNT and picric acid.

Or

- (b) Discuss the manufacturing process of paper.

12. (a) Write the principle and application of steam distillation.

Or

- (b) Write short notes on paper chromatography.

13. (a) Why is phosphorus importance for plant growth? Explain.

Or

- (b) Discuss the different types of biofertilizers.

14. (a) What are the three types of RNA? Explain.

Or

- (b) Write the classification amino acids.

15. (a) Discuss the determination of blood groups and matching.

Or

- (b) Write short note on vulcanization.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Discuss briefly the manufacturing process of match's.
 17. Discuss briefly the principle, instrumental working and application of gas chromatography.
 18. What is the effect of nitrogen? Explain.
 19. Discuss the differences between DNA and RNA.
 20. Write the preparation and uses of
 - (a) Phenolphthalein
 - (b) Indigo. (5+5)
-

R5413

Sub. Code

**4534T4/
941T**

**M.A. INTEGRATED HOME SCIENCE / M.Sc.
INTEGRATED MARINE BIOLOGY DEGREE
EXAMINATION, APRIL – 2021**

Fourth Semester

(பொதுத் தமிழ் - தாள் 4) பண்டைய இலக்கியமும் நாடகமும்

(Common for M.A. Integrated Home Science/M.Sc., Integrated
Marine Biology)

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

பகுதி அ

(10 × 2 = 20)

அனைத்து வினாக்களுக்கும் விடையளி.

1. சிறுபாணாற்றுப்படை சுட்டும் நகரங்கள் இரண்டை எழுதுக.
2. வெள்ளிவிதியார் பாடலில் தலைவி, தலைவனிடம் யாரைத் தூதாக விடுக்கிறார்?
3. 'இம்மை மாறி மறுமை ஆயினும்' என்ற குறுந்தொகை பாடலில் தலைவி கூறும் செய்தி யாது?
4. பிசிராந்தையாரின் நண்பர் யார்?
5. திருமணநிகழ்வில் அளிக்கப்பட்ட விருந்துணவாக அகநானூறு எதனைச் சுட்டுகின்றது?
6. அரியவற்றுள் எல்லாம் அரிதாகத் திருக்குறள் சுட்டும் கருத்து யாது?
7. கற்கும் முறை பற்றி நாலடியார் கூறும் செய்தி யாது?

8. நீதிதேவன் மயக்கம் நாடகத்தின் மையப் பொருள் யாது?
9. அகத்திணைகள் இரண்டைச் சுட்டுக.
10. 'கற்பு' என்பதன் இலக்கணம் யாது?

பகுதி ஆ

(5 × 5 = 25)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

11. (அ) சிறுபாணாற்றுப்படை வாயிலாக நல்லியக்கோடன் பரிசிலார்க்கு விருந்தோம்பிப் பரிசில் அளித்த சிறப்பினை விவரி.

(அல்லது)

(ஆ) வெள்ளிவீதியார் பாடல்களின் மூலம் தலைவி படும் துயரத்தை விவரி.

12. (அ) சோழன் நல்லுருத்திரனின் முல்லைக்கலி பாடல் உணர்த்தும் செய்திகளை விளக்குக.

(அல்லது)

(ஆ) பிசிராந்தையார் செவியறிவுத்தலாகப் பாண்டியன் அறிவுடை நம்பிக்கு கூறிய கருத்துக்களை ஆராய்க.

13. (அ) நாலடியார் உணர்த்தும் வாழ்வியல் செய்திகளை விவரி.

(அல்லது)

(ஆ) பெரியாரைத் துணை கோடலாக வள்ளுவர் கூறும் கருத்துக்களை விவரி.

14. (அ) அகத்திணைகள் இரண்டின் சிறப்பை விளக்குக.

(அல்லது)

(ஆ) உள்ளுறை பற்றிய செய்திகளை விளக்குக.

15. (அ) நீதிதேவன் மயக்கம் நாடகத்தின் கதைச்சுருவினை விளக்குக.

(அல்லது)

(ஆ) நாடகத்தின் தோற்றம் வளர்ச்சி குறித்து ஆராய்க.

பகுதி இ

(3 × 10 = 30)

எவையேனும் மூன்று வினாக்களுக்கு மட்டும் விடையளிக்க.

16. சங்க அக, புற இலக்கியங்கள் உணர்த்தும் வாழ்வியல் செய்திகளை விளக்குக.
17. சிறுபாணாற்றுப்படை காட்டும் கடையெழு வள்ளல்களின் சிறப்பினை ஆராய்க.
18. திருக்குறள், நாலடியார் உணர்த்தும் அறவியல் கருத்துக்களை ஆராய்க.
19. தமிழ் இலக்கணம் சுட்டும், களவு, கற்பு குறித்த செய்திகளை விவரி.
20. ஓரங்க நாடகம் ஒன்றினைப் படைப்பாக்கம் செய்க.

R5414

Sub. Code

4534E4/942E

**M.A. INTEGRATED HOME SCIENCE/ M.Sc.
INTEGRATED MARINE BIOLOGY DEGREE
EXAMINATION, APRIL – 2021.**

Fourth Semester

English IV

ENGLISH FOR ENRICHMENT-IV

(CBCS – 2019 onwards)

**(Common for M.A. Integrated Home Science/M.Sc.
Integrated Marine Biology)**

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Who are Professor Higgins and Colonel Pickering?
2. What is the relationship between Eliza and Doolittle?
3. Why was Swaminathan apprehensive of Mondays?
4. What did Swaminathan tell his grandmother about Rajam?
5. Why does Antonio lend money to Bassanio, even though Bassanio never repays him?
6. How does Romeo's react when he first sees Juliet?
7. Add the appropriate tag to the following sentences.
 - (a) A few people knew the answer.
 - (b) The garden looks very attractive.

8. Rewrite as directed:
- (a) It is a horrible night. (Transform into Exclamatory sentence)
 - (b) Why waste time in this fruitless occupation? (Transform into Assertive sentence)
9. What are four essential components of a group discussion test?
10. Who holds a group discussion?

Part B

(5 × 5 = 25)

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

11. (a) What characteristics does Eliza demonstrate when she present herself to Higgins for speech lessons?

Or

- (b) Comment on the dramatic importance of phonetics in the play *Pygmalion*.

12. (a) What were the reasons of animosity between Mani and Rajam?

Or

- (b) How did Rajam bring about reconciliation between his fighting friends?

13. (a) Account for the popularity of the balcony scene in *Romeo and Juliet*.

Or

- (b) Write a note on the major conflict in the play *The winter's Tale*.

14. (a) Correct the following sentences, If necessary.
- (i) I live in 40 Alexandra street.
 - (ii) My most favourite season is the autumn.
 - (iii) The message between the lines are that we need to finish before Monday.
 - (iv) The board want to make the decision by next Thursday.
 - (v) Each of our staff members have to fill in an evaluation form.

Or

- (b) Rewrite as directed:
- (i) Rama ordered Arjun to go away. (Change into Direct speech)
 - (ii) He is an intelligent boy. (Change into Negative sentence without changing the meaning)
 - (iii) I saw a bird and it was wounded.(Convert into a Simple sentence)
 - (iv) Search the pockets and you will find the watch. (Convert into a complex sentence)
 - (v) If you run, you will be in time. (Convert into a Compound sentence)

15. (a) A rolling stone gathers no moss. Expand the proverb.

Or

- (b) How would you make a conversation meaningful and effective? Illustrate with examples.

Part C

(3 × 10 = 30)

Answer any **Three** questions.

16. Make an assessment of the role played by Professor Higgins in *Pygmalion*.
 17. Describe the tone and attitude of the narrator toward Swami and the other characters.
 18. Discuss how the trial scene reveals a conflict between justice and mercy in *The Merchant of Venice*.
 19. Illustrate the principles and rules governing concord in English with examples.
 20. Discuss the advantage of being a starter of a Group Discussion.
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R5485

Sub. Code

548401

M.Sc. DEGREE EXAMINATION, APRIL – 2021

Fourth Semester

Integrated Marine Biology

CELL AND MOLECULAR BIOLOGY

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

Each answer should be in about 10 words.

1. Gap junction.
2. Mesosome
3. Sub units of parson
4. Ribophorin
5. Proto oncogene
6. Spindle
7. Nucleotide
8. Okazaki fragment
9. Palindromic sequence
10. Operator gene.

Part B

(5 × 5 = 25)

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

All questions carry equal marks.

Each answer should be in about 500 words.

11. (a) Describe the various steps involved in cytological techniques.

Or

- (b) Describe the structure of plasma membrane and its functions.

12. (a) Briefly discuss the various types of Ribosomes and functions.

Or

- (b) Explain the structure and function of nucleus.

13. (a) Elaborate the prophase stage of first meiotic division.

Or

- (b) Define cancer and add a note on its properties and treatment.

14. (a) Describe the chemical structure of nitrogenous bases.

Or

- (b) Write a short note on transduction and conjugation.

15. (a) Comment on genetic code.

Or

- (b) Brief about lac operon model.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

Each answer should be in about 1000 words.

16. Describe the principles and working mechanism of electron microscopes.
 17. Discuss in a detailed manner about cellular respiration and energy budget.
 18. Explain the molecular understanding about oncogenes and tumor suppressor genes.
 19. Write an essay on replication of DNA.
 20. Elaborate the steps involved in protein synthesis and add a note on post translational modifications of protein.
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R5486

Sub. Code

548402

M.Sc. DEGREE EXAMINATION, APRIL – 2021

Fourth Semester

Integrated Marine Biology

DEVELOPMENTAL BIOLOGY

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

All questions carry equal marks.

Each answer should be in about 10 words.

1. Sertoli cells
2. Amphimixis
3. Rathke's pocket
4. Amniota
5. Neural induction
6. Autotomy
7. Thyroxine
8. Haemochorial placenta

9. Axial gradient
10. Heteromorphosis.

Part B

(5 × 5 = 25)

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

All questions carry equal marks.

Each answer should be in about 500 words.

11. (a) Tabulate the differences between spermatogenesis and oogenesis.

Or

- (b) Differentiate epiboly and emboly.

12. (a) Explain the development of ear in frog.

Or

- (b) Give an account on extra-embryonic membranes in chick.

13. (a) Differentiate between the terms induction and evocation.

Or

- (b) Write a short note on morpholactic regeneration.

14. (a) Discuss the role of hormones in amphibian metamorphosis.

Or

- (b) Explain the physiology of foetal membranes.

15. (a) Write a short note on nuclear transplantation in acetabularia.

Or

- (b) Comment on regeneration in planaria.

Part C

(3 × 10 = 30)

Answer any **three** questions.

All questions carry equal marks.

Each answer should be in about 1000 words.

16. Give a detailed account on fertilization.
17. Explain the organogenesis of brain of frog.
18. Discuss the role of organizer in amphibian metamorphosis.
19. Write an essay on placenta in mammals.
20. Elaborate on epimorphic regeneration with suitable example.
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R5487

Sub. Code

9MB4A1

M.Sc. DEGREE EXAMINATION, APRIL – 2021

Fourth Semester

Integrated Marine Biology

**ALLIED IV – TAXONOMY OF ANGIOSPERMS,
ECONOMIC BOTANY AND EMBRYOLOGY OF
ANGIOSPERMS**

(CBCS – 2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is binomial system of classification?
2. Classification.
3. Pollinium.
4. Zygomorphic.
5. Mention any two health benefits uses of sandal wood oil.
6. Mention any two health benefits uses of Soybean oil.
7. Hemi anatropous.
8. Endothecium.
9. Helobial type.
10. Double fertilization.

Part B

(5 × 5 = 25)

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

11. (a) Discuss about the signification of taxonomy.

Or

- (b) Comment on the artificial system of classification.

12. (a) Explain the general character and floral diagram of *Euphorbia hirta*.

Or

- (b) Briefly explain about the cyathium inflorescence of Euphorbiaceae.

13. (a) Describe about the economic importance of cocoa.

Or

- (b) List out the economic importance of oil obtained from Olive trees.

14. (a) Briefly explain about the development of Megasporangium.

Or

- (b) Add a note on Campylotropous ovule and Amphitropous ovule.

15. (a) Write short notes on the significance of Syngamy.

Or

- (b) Explain about the development of nuclear type of endosperm.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail about the three broad categories of Bentham and Hooker's system of classification.
 17. Discuss the characters, distribution and economic importance of Euphorbiaceae.
 18. Give an account on the economic importance of fibres obtained from jute and cotton.
 19. Write an essay on structure and development of embryo sac.
 20. Describe in detail about structure and development of dicot embryo.
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