



# GURUDEV ARTS & SCIENCE COLLEGE

( Affiliated to KANNUR UNIVERSITY )

Managed by the Catholic Diocese of Bathery

## Criterion 1

### Curriculum Aspects

#### 1.2: Academic Flexibility

##### **1.2.2: Add on /Certificate programs**

Submitted to National Assessment and Accreditation Council (NAAC)

## **ADD ON COURSE 2023-2024**

### **TITLE:**

Essential laboratory techniques in Microbiology, Molecular Biology and Clinical Biochemistry.

### **COURSE OVERVIEW:**

This is an effective course for life science students. The course introduces different modern laboratory techniques and their applications in new gen diseases. It will provide a hands-on experience which will help the students in their higher education and future job opportunities.

### **OBJECTIVE:**

To provide students with hands-on experience in essential laboratory techniques in Microbiology, Molecular Biology and in Clinical Biochemistry.

### **COURSE OUTCOME:**

Participants will gain practical skills and insights into essential techniques used in health care sector.

### **COURSE DETAILS:**

- i. Theory      ii. Practical      iii. Discussion

### **COURSE CONDUCTING AUTHORITY:**

Department of Microbiology and Biochemistry, Gurudev Arts and Science College in association ACCRED-IT Health Academy, Payyanur.

### **COURSE SYLLABUS**

#### **Clinical Biochemistry**

- Sample collection techniques
- Processing of routine biochemical tests
- Normal value and clinical indications
- Quality Control Programme

#### **Molecular Biology**

- Sample collection and Transportation
- RNA Extraction
- Master mix preparation
- Template addition
- PCR technique
- Report Interpretation



### **Microbiology Laboratory Techniques**

- Overview of microbiology laboratory safety
- Importance of personal protective equipment (PPE)
- Procedures for handling biohazardous materials
- Infection control measures
- Principles of waste segregation
- Proper disposal of microbiological waste
- Sample receiving and rejection criteria
- Sample transportation and storage
- Machines and Equipment's in Microbiology
- Proper usage and maintenance
- Overview of sterilization techniques
- Autoclaving
- Importance of sterility in microbiological work
- Introduction to basic staining techniques
- Microscopic examination and interpretation
- Preparation of different culture media
- Inoculation methods and aseptic techniques
- Incubation and monitoring
- Overview of biochemical tests for identification
- Principles of AST and interpretation of results
- Guidelines for accurate reporting
- Quality Control in Microbiology
- Case studies and practical exercises

### **COURSE FEE:**

1000/-

### **COURSE ELIGIBILITY:**

Students pursuing BSc Microbiology/Biochemistry of Gurudev Arts and Science College.

### **INTAKE:**

Maximum of 40 students

### **EVALUATION AND GRADING:**

Active participation and individual preparation in the class are important for the successful completion of the course. Grades will be determined by the results of written examination and class participation.

### **LEARNING METHOD:**

offline / Lab

### **COURSE COORDINATORS:**

M Dharanya Krishnan  
Dept of Microbiology  
Gurudev Arts and Science College  
Ph: 9995659131

Reshma Babu  
Academic Consultant  
Accredit Academy  
Ph: 7306223177





**ACCRED-IT**  
SHINE LIKE A NORTH STAR

**unomed**  
Medical Center  
Diagnostics | Pharmacy | Clinic

# CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

SREELEKHA. M. H

HAS SUCCESSFULLY COMPLETED THE ADD-ON COURSE BIOCHEMISTRY IN  
ADDITIONAL TO HIS/HER REGULAR UG/PG PROGRAMME.

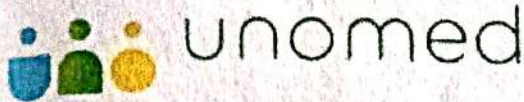
**MUHAMMED SAFEER M.T.P**  
ACADEMIC DIRECTOR



**SHAFEEQUE AHAMMED T.A**  
TECHNICAL DIRECTOR



11/2/2023



To,  
The Principal  
GURUDEV ARTS AND SCIENCE COLLEGE  
MATHIL, PAYYANUR

Respected Sir,

I am writing this letter to express my gratitude for allowing us to conduct three days **Add on Course** (13-12-23 to 15-12-23) for the second year and the final year Biochemistry students (29 Students) of your esteemed college. It was a great opportunity for us to interact with the students and share our knowledge with them.

Their participation and engagement in the class were commendable. We believe that this would not have been possible without the support and encouragement of the faculties.

I would like to extend my appreciation to the dedicated faculty who accompanied the students throughout the programme – Ms. Rakhi R C (13-12-2023- 15-12-2023).

We are grateful for the opportunity to work with such dedicated team. We hope that this collaboration will continue in the future and that we can work together to provide more opportunities for the students of your college.

Thank you once again for your support and cooperation.

Sincerely,

Reshma Babu

Academic Consultant

Accred-It Academy

+917306223177





To,

Ms. Rajna V  
Head, Dept. of Biochemistry  
Gurudev Arts and Science College  
Mathil, Payyannur  
Kannur, Kerala

Sub : Permission to visit our organization

Respected Madam,

It is informed that, permission for second and final year Biochemistry Students of your esteemed college to visit Unomed Diagnostics Center on 13<sup>th</sup> December to 15<sup>th</sup> December 2023.

The purpose of the visit is to provide the students with an opportunity to gain practical insights and hands on experience in the field of their study.

Date : 13/12/2023 to 15/12/2023

Duration : 3 Days

Purpose : Add on course

Number of Students : 29

Faculty Assigned : Rakhi R C

I, Reshma Babu as the Academic Consultant of Accred-it Academy, hereby confirm that we will facilitate and supervise the students during their visit to ensure a safe and productive learning experience. We understand the importance of practical exposure in enhancing the students' understanding of their academic curriculum.

We appreciate your cooperation and support in facilitating this educational opportunity for the students. We believe that this practical exposure will significantly contribute to their academic and professional development.

We look forward to a successful collaboration and a fruitful visit.

Thanking you,

Yours Sincerely,

Reshma Babu  
Academic Consultant

Accred-It Academy

+917306223177





**GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL  
BIOCHEMISTRY ADD ON COURSE STUDENT'S LIST**

Sl. No.	Reg No	NAME
1	GD22CBCR01	ADITHYAN PV
2	GD22CBCR02	AJAY KRISHNAN
3	GD22CBCR03	MUHAMMAD SHINAD ABDUL KADER
4	GD22CBCR04	AMRUTHA P
5	GD22CBCR05	NANDANA PRAVEEN
6	GD22CBCR07	ABHINAND VP
7	GD22CBCR08	DEVIKA K
8	GD22CBCR09	GEETHIKA P
9	GD22CBCR10	NANDANA KK
10	GD22CBCR11	SANDRA R
11	GD21CBCR01	ABHINAV. C
12	GD21CBCR03	AMALRAJ M
13	GD21CBCR04	ANANTHU K AJAYAN
14	GD21CBCR05	ASWIN BHARATH
15	GD21CBCR06	ANAMIKA K
16	GD21CBCR07	SRUTHI KRISHNAKUMAR
17	GD21CBCR09	ATHUL. P
18	GD21CBCR10	SREEHARI. N. V
19	GD21CBCR11	VISHNU. M
20	GD21CBCR12	AISHWARYA. P
21	GD21CBCR13	ASHIJA. A. S
22	GD21CBCR14	DONIYA BIJU



23	GD21CBCR15	GEETHU. K. P
24	GD21CBCR17	NIMISHA. K
25	GD21CBCR18	SANGEERTHANA SADANANDHAN. M
26	GD21CBCR19	SABHANA. M. K
27	GD21CBCR20	SREELAKSHMI. C
28	GD21CBCR21	SREELEKHA. M. H
29	GD21CBCR22	ADHIL. C. G



**GURUDEV ARTS AND SCIENCE COLLEGE, MATHIL**  
**DEPARTMENT OF BIOCHEMISTRY**

**2023-2024**

**ADD ON COURSE**

**Topic : 'Biochemical and Biotechnological Techniques'**

**Date : 13-12-2023 to 15-12-2023**

**Time : 9:30AM - 4:00PM**

Add on course on 'Biochemical and Biotechnological Techniques' was conducted by Department of Biochemistry in association with Unomed Diagnostic Centre, Payyanur. The course helped the students in knowing more about the tools and techniques in Biochemistry and also about research works. It gave the guidelines about career opportunities in the subject.

The Add on Course was set out to Unomed Diagnostic Centre, Payyanur. The crew with 29 students ( II<sup>nd</sup> and III<sup>rd</sup> Year Biochemistry Students) and a teacher started from Gurudev Arts and Science College on 13<sup>th</sup> December. It was an Add-on Course of three days at Payyanur. Reshma Babu (Academic Consultant, Unomed Diagnostic Centre) guided the students. Students completed the three days of Add on Course at Unomed Diagnostic Centre by visiting the Microbiology, Biotechnology and Biochemistry Departments.





## ATTENDANCE DETAILS

S. No.	Reg. No:	Name	Date				
			18/11/2023	25/11/2023	27/11/2023	28/11/2023	29/11/2023
	GD21CBCR01	ABHINAV. C	x	x	x	x	x
	GD21CBCR03	AMALRAJ M	x	x	x	x	x
	GD21CBCR04	ANANTHU K AJAYAN	x	x	x	x	x
	GD21CBCR05	ASWIN BHARATH ANAMIKA. K	x	x	x	x	x
	GD21CBCR06	ANAMIKA K	x	x	x	x	x
	GD21CBCR07	SRUTHI KRISHNAKUMAR	x	x	x	x	x
	GD21CBCR09	ATHUL. P	x	x	x	x	x
	GD21CBCR10	SREEHARI. N. V	x	x	x	x	x
0	GD21CBCR11	VISHNU. M	x	x	ab	x	x
1	GD21CBCR12	AISHWARYA. P	x	x	x	x	x
2	GD21CBCR13	ASHIJA. A. S	x	x	x	x	x
3	GD21CBCR14	DONIYA BIJU	x	x	x	x	x
4	GD21CBCR15	GEETHU. K. P	x	x	x	x	x
5	GD21CBCR16	NAJLA MUTHALIB	x	x	x	x	x
6	GD21CBCR17	NIMISHA. K	x	x	x	x	x
7	GD21CBCR18	SANGEERTHANA SADANANDHAN. M	x	x	x	x	x
8	GD21CBCR19	SABHANA. M. K	x	x	x	x	x
9	GD21CBCR20	SREELAKSHMI. C	x	x	x	x	x
20	GD21CBCR21	SREELEKHA. M. H	x	x	x	x	x
21	GD21CBCR22	ADHIL. C. G	x	x	x	ab	x
22	GD22CBCR01	ADITHYAN PV	x	x	x	x	x
23	GD22CBCR02	AJAY KRISHNAN	x	x	x	x	x
24	GD22CBCR03	MUHAMMAD SHINAD	x	x	x	x	x
25	GD22CBCR04	AMRUTHA P	x	x	x	x	x



26	4						
	GD22CBCR0	NANDANA PRAVEEN	x	x	x	x	x
27	5						
	GD22CBCR0	ABHINAND VP	x	x	x	x	x
28	7						
	GD22CBCR0	DEVIKA K	x	x	x	x	x
29	8						
	GD22CBCR0	GEETHIKA P	x	x	x	x	x
30	9						
	GD22CBCR1	NANDANA KK	x	x	x	x	x
31	0						
	GD22CBCR1	SANDRA R	x	x	x	x	x
	1						





**VEEKSHA EDUCATION**  
**QUESTION PAPER 2024**

**AMIRTHA TOWERS, 4<sup>TH</sup> FLOOR, OPP. MEDICAL TRUST HOSPITAL, SA ROAD, KOCHI-16 +919400192564**

**ILETS**

**TOTAL MARK: 100**

**TIME: 2:30 hr**

**READING**

**Section 1**

**Question 1— 5**

**40 MARKS**

Look at the following notice regarding the Interlibrary Loan Service.

<b>TRUE</b>	if the statement is true
<b>FALSE</b>	if the statement is false
<b>NOT GIVEN</b>	if the information is not given in the passage

1. The library will inform you once the book comes in.
2. The library will allow more than one request at a time.
3. Books or journals will come in within 10 days.
4. You must write all the requests down clearly on a single request form.
5. The time that it takes does not include holidays.

The Interlibrary Loan Service allows you to find books and journals that the library may not have, at present but other libraries do have. The library can borrow books or journals from other libraries on your behalf. We strive to make your requests successful, so to help us to do so please pay attention to the following directions.

Please make sure the following procedures are followed.

- Clearly write the name of the book or journal, date and/or volume, and author on the pink sheet of paper titled Interlibrary Request Form.
- Do not use any quotes or abbreviations for repeated information.
- Please write each request on a separate pink sheet.
- Make sure you include your full name, student number, and telephone number on each of the slips.

Allow for at least 10 working days for the material to come. The library will hold located resources for up to one week. There are no repeat requests if you happen to arrive at the library later than one week for your requests. It is your responsibility to check whether the materials have come in.

While many items may be listed that go back many years, the library can only track items that are no more than 10 years old. Also, please remember that fines for overdue requested material are the same as for any material borrowed from the library.

If you have any questions please do not hesitate to ask Ms Friedman or Betty Shipley at the information desk.

**Questions 6 — 13**

Look at the patient information on the following page. Match each of the following sentences with TWO possible endings A-M from the box below. Write the appropriate letters A – M in boxes 6 – 13 on your answer sheet.

**Questions 6 and 7**

You must consult a doctor at once if you

**Question 8 and 9**

You do not need to receive medical attention if you



**Question 10 and 11**

An incorrect way of using Migranal is to

**Question 12 and 13**

You should tell your doctor before using it if you

**Possible Endings**

- A inhale it through the nose
- B get migraine headaches C are sleepy
- D are taking other drugs
- E use it with water
- F increase the dose if you forget to use it
- G use twice in an 8 hour period
- H receive some discomfort in the nose
- I use it every 15 minutes
- J feel like scratching yourself constantly
- K get headaches that normal pills cannot seem to help
- L get headaches that actually get worse after taking Migranal
- M are pregnant

**Patient Information about Migranal****What does Migranal nasal spray do?**

Migranal is used to treat an active migraine headache. It is used by patients who do not get headache relief from other pain relievers. It is not intended to prevent a headache before it occurs. Do not use it to treat common tension headaches.

**What should my health care professional know before I use Migranal?**

The health care professional needs to know if you have any of these conditions: chest pain or difficulty in breathing, heart or blood vessel disease, high blood pressure, risk factors for heart disease such as smoking and high cholesterol, pregnancy or attempted to get pregnancy, breast-feeding.

**How should I use this medicine?**

People need specific instructions on the nasal spray's use. You must prepare your nasal sprayer only when you are ready to use it (at the first sign of a migraine headache). It cannot be prepared ahead of time because it becomes unstable in 8 hours and must be discarded. The dose is one spray in each nostril, with the dose repeated in 15 minutes if needed. Each ampule contains one complete dose (4 sprays). Do not use more than 4 total sprays to treat a migraine headache, and use it only when you need it. Do not use extra doses.

**What other medicines can interact with dihydroergotamine?**

Migranal can interact with any other drug that also causes drowsiness and several other drugs related to treating other diseases. Tell your prescriber about all other medicines you are taking and if you are a frequent user of drinks with caffeine or alcohol, if you smoke, or if you use illegal drugs. These may affect the way your medicine works.

**What side effects may I notice from receiving Migranal?**

Side effects that you should report to your prescriber as soon as possible are blisters on the hands or feet, muscle pain or cramps, pain, tightness or discomfort in the chest, palpitations or changes in heart rate, swelling or itching; weakness in the legs. Check with your prescriber if you get more frequent or severe headaches after you start using Migranal. Do not use more than prescribed. Side effects that usually do not require medical attention are cold hands or feet, mild dizziness or drowsiness, or nasal congestion.



### What do I need to watch for while I receive Migranal?

Migranal works best when you take it at the first sign of a headache. Lie down in a quiet, dark room after a dose until you feel better. Alcohol can make headaches worse or bring on a new headache. Smoking can increase the side-effects of Migranal.

## Section 2

### Questions 14 — 20

Look at the introduction to the Grounds of Keele University on the following page and at the statements below. In boxes 14 – 20 on your answer sheet write

TRUE	if the statement is true
FALSE	if the statement is false
NOT GIVEN	if the information is not given in the passage

14. The originator of the property took over the property from his father after he died.
15. There are many plants and wildlife species not found anywhere else.
16. One of the nice things about the grounds of Keele is the naturalness of the landscape and its wealth of rare wildlife.
17. The grounds had barely any trees when Sneyd took them over.
18. It is so peaceful and quiet in the grounds because they are located far from the disturbances of human activity.
19. The grounds are maintained by students of the university.
20. If you want to see the plant life and insects it is not difficult to move around the grounds.

### Introduction to the Grounds of Keele University

Keele University is situated in 600 acres of landscaped grounds to the west of the Potteries conurbation in North Staffordshire. These well-wooded grounds with their lakes, streams and formal flower beds support a wealth of wildlife. The surrounding countryside of the Staffordshire/ Shropshire/ Cheshire borders is also a rich area for the naturalist and rambler, while the majestic gritstone moorland of North Staffordshire and the limestone dales of Derbyshire and northeast Staffordshire are not far away. Of the 600 acres some 300 are leased out as Home Farm. Of the remainder, about half is woodland while the rest comprises the campus buildings and sports fields. The landscape we see today owes much to the work of Ralph Sneyd (1793 to 1870) who began planting on a grand scale in 1830, after inheriting the estate from his father.

Throughout the period of its construction, the university has been careful to preserve as many mature trees as possible and to restrict the height of buildings to maintain the feeling of living and working in a landscape. The university has a continuing programme of landscaping, and many ornamental trees have been planted. Keele campus is, then, one of the most picturesque and tranquil in the country, yet is only a short distance from the Potteries and the M6 motorway.

Although the landscape is an artificial one, it nonetheless has rich flora and fauna with more than 110 species of birds, 120 species of flowering plants, more than species of 60 trees, 24 species of butterflies, 380 species of moths, 100 species of beetles and 100 species of flies having been recorded so far. Although there is little of great rarity here, a wide variety of common species and a good network of paths from which to see them make Keele an ideal place to visit for the casual observer, as well as for both the novice and the more experienced naturalist.

### Questions 21 — 26

Look at Keele University Services For Students on the following page. Each paragraph A G describes a different service provided by the college. From the list below (I – xi) choose the most suitable summaries for B– H.



Write the appropriate numbers (1- xi) in boxes 21 – 26 on your answer sheet. (There are more summaries than paragraphs, so you will not use them all)

- I The administration and financial management centre of the University.
- II A place where people can receive financial suggestions and services.
- III A place where one can receive student loans access funds and hardship funds.
- IV A place where you can go if you are having problems in your dormitory.
- V The place you go that will help you find a place to live.
- VI If you need non-student to discuss your problems with...
- VII A place where you can get help with your English.
- VII The place you would visit if you are interested in a study-overseas plan.
- IX A place that will find you a job.
- X A place that offers a variety of sources to help you plan your job search.
- XI A place where you can get counseling that is not affiliated with the faculty.

- 21. Paragraph B
- 22. Paragraph C
- 23. Paragraph D
- 24. Paragraph E
- 25. Paragraph F
- 26. Paragraph G

### **Keele University Services For Students**

- A.** This service provides English-language tuition and support for international students at Keele University. It is a small unit, which provides a supportive and friendly study environment. With its own well-equipped space in the university, many overseas students make the ELU their base for studying and making friends.
- B.** This person is available to provide students with information, advice and assistance on a wide variety of residential problems, security concerns and welfare issues for undergraduate and postgraduate students.
- C.** These members of staff provide information on, and help with applications for, money advice; student loans; access funds; hardship funds. Information and advice relating to student finance is also offered by the Independent Advice Unit in the Students' Union.
- D.** This professional yet friendly service offers help to all categories of students and staff with a very wide range of personal, emotional and academic issues. Counselling is on a "one-to-one" basis with just the person seeking help and the counsellor present. You can talk to either a female or a male counsellor. Everything said in the sessions is confidential, and information is only passed on if you want it to be.
- E.** This office is responsible for the administration and financial management of all exchange and visiting student programmes in the university. It is the first place of contact for students from partner universities, and it acts as a reference and coordinating centre for Keele students wishing to spend a period abroad as part of their degree. It is also responsible for all students wishing to study at Keele University on the Study Abroad Scheme from non-partner universities.



F. This service offers free, confidential and impartial advice to all students and staff at the university. It is part of the Students' union and is funded by Students' Union resources. The centre has comprehensive information, including electronic information systems. There are many leaflets published by the centre as well as an extensive stock of externally produced leaflets and publications.

G. Our information room stocks a wide range of information covering occupations, postgraduate study, funding, employment in the UK, employment overseas and career planning. Our Information Officer will be happy to help you find the information you need. Our "occupations" files contain information about hundreds of different occupations with information from professional bodies, training details, etc. We have various handouts on a range of issues such as CV writing and vacation work. All the handouts are available, on request, in alternative formats, including large print, Braille and disk. We also have reports of careers staff visits to various employers.

### Zeus' Temple Holds Secrets of Ancient Game

Athens already is preparing for the summer games of 2004. But today's games offer a far different spectacle from the contests of ancient Greece, where naked young men with oiled bodies raced and wrestled and boxed to honor their gods. Those great Panhellenic events began more than 2,700 years ago, first in Olympia and later at Delphi, Isthmia and Nemea. And at Nemea, where the games began in 573 B.C., a Berkeley archaeologist has been patiently reconstructing a site whose legends helped inspire the modern Olympics. For Stephen G. Miller, exploring the site at Nemea, 70 miles from Athens, involves more than analyzing artifacts and ruins, dating ancient rock strata or patiently assembling broken pottery shards. It also means reliving the events he's studying. For the last two summers, large crowds have flocked to an ancient Nemean stadium (capacity 40,000) to watch a modern re-enactment of the ancient Nemean games. Seven hundred runners from 45 nations—barefoot and clad in white tunics—raced around the reborn stadium in groups of 12.

Winners of the races were crowned—just as they were in antiquity—with wreaths of wild celery. Miller is a professor of classics at the University of California at Berkeley, but he also has been a barefoot runner, a slave carrying water for the athletes and a priest presiding over the re-enacted rituals of the legendary Nemean games.

"Playing those roles gives you a deeper sense of antiquity and a feel for the spirit of the people who lived and worked and played there so long ago," he said recently after returning 'from this year's field work. Excavating the site every summer since 1973, Miller and his crew have found and re-assembled limestone columns that once stood proudly around the Temple of Zeus. Exactly a decade after they began the excavation and just east of the temple, they found the remains of a great altar to Zeus where athletes and their trainers performed sacrifices and swore oaths just before competing. And from ancient Greek records, two years later, Miller's team also learned that his Nemea site had once seen major horse races in a hippodrome that must have existed next to the great stadium. In an earthen mound his team could trace the patterns of faint wheel marks indicating that chariots must have raced there too.

In 1997 Miller and his crew, seeking more evidence of the hippodrome, dug down into a spot where four low rock walls indicate there might be a structure underneath. There they found a wine jug, drinking mugs, coins and a crude little figure of a centaur. The next summer, after digging down 20 feet, they still hadn't reached bottom. Miller wondered what purpose this deep rock-walled pit might have served, and finally concluded it must have been a reservoir holding copious quantities of water from a river near the site that now irrigates vineyards.

"The reservoir is a phenomenal find," Miller said, "We believe it provided water for as many as 150 horses who raced in the hippodrome during the games. But how were the horses fed? And what did they do with that much manure every day? Trying to answer questions like that is one of the joys of the whole project."



Eight months after finding the reservoir Miller and his team uncovered an ancient chamber that served the Nemean athletes as a locker room — the apodyterion — where they anointed themselves with olive oil. They then would have walked 120 feet through a vaulted entrance tunnel — the krypte esodos — whose walls are still marked by graffiti scratched by the athletes on their way into the stadium.

The wine jug and cups unearthed in one layer of the buried reservoir may have been left by victors in one of the ancient Nemean races, but just what kind of wine they drank remains unknown. Today, the local red wine served in Nemean taverns is called the Blood of Hercules, honoring the hero who strangled the ferocious Nemean lion there more than 5,000 years ago. As in so much of archaeology, the discoveries that Miller has made at Nemea all seem to recall ancient legends and link them to reality. The Berkeley team, for example, has unearthed a tiny bronze figurine identified as the image of an infant named Opheltes, whose fate inspired the first of the Nemean games.

As Miller recounts the tale, Opheltes was the son of Lykourgos and Eurydike, who had tried for many years to produce an heir. When the Oracle at Delphi warned them that their child must not touch the ground until he had learned to walk, they ordered a Nemean slave woman to care for the infant day and night. One day, when seven warrior heroes passed through Nemea on their way to march against the citadel of Thebes — they were the legendary “Seven Against Thebes” whose bloody war was immortalized by Aeschylus — the nurse placed the child on a bed of wild celery while she offered drink to the heroes. Instantly, a serpent lurking in the vegetation killed the infant and the warriors re-named the boy Archemoros, the “Beginner-of-Doom,” and held the first Nemean games in his honor as a funerary festival. Wreaths of wild celery crowned winners of those games, as they did the modern winners at Nemea last summer.

As with all classical archaeologists, whose excavations shed so much surprising light on antiquity, Miller and his students are now ready to organize and classify their treasured finds from the summer season, and to plan for next season’s dig.

“In the earthen mound where we saw the imprints of wheel cuts, we also have a bronze vessel of the kind that was always used for pouring libations,” Miller said. That mound goes back to 600 B.C., so now we wonder what happened there in that complex of religion and athletics even before the Nemean games.”

Archaeology doesn’t come cheap, and each season at Nemea costs at least \$150,000 for the team, the equipment, and the 35 local workers from the nearby town of modern Nemea, whom Miller calls “the core of the project.” The money all comes from private sources — and not the least of Miller’s jobs is lecturing to the public and combing the territory for contributions.

### SECTION 3

#### Question 27-31

Complete the table below. Write a date for each answer. Write your answers in boxes 27 – 31 on your answer sheet

#### Example

The time the Nemean games began 573 BC

The beginning date of the Nemea excavation

...(27)... The date that Miller found the altar to Zeus

...(28)...

When Miller first learned there was a hippodrome at the Temple of Zeus

...(29)... When Miller finally concluded he had found an old reservoir ... (30)...

When Miller found the ancient locker room ... (31)...

#### Questions 32 — 36

Do the following statements reflect the claims of the writer of the reading passage in boxes 32 – 36 on your answer sheet write



- YES if the statement reflects the claims of the writer  
 NO if the statement contradicts the writer  
 NOT GIVEN if it is impossible to say what the writer thinks about this

32. The author believes it must be also difficult for Miller to find funds for the excavation.  
 33. Miller goes far beyond what an archaeologist traditionally normally does.  
 34. Religion played a key role in the games.  
 35. The games were far more interesting in the past than now.  
 36. The Nemean games influenced the modern Olympic Games.

#### Questions 37 – 40

Complete each of the following statements with a name from the reading passage. Write your answers in lines 37 40 on your answer sheet.

Miller's excavations at \_\_\_\_\_ 37 \_\_\_\_\_ led him to look for a \_\_\_\_\_ 38 \_\_\_\_\_ where horse races were held. He found a \_\_\_\_\_ 39 \_\_\_\_\_, and eight months later he found an \_\_\_\_\_ 40 \_\_\_\_\_, which athletes used as a locker room.

#### WRITING

##### Section.2

30 MARKS

Parents today often tend to organise extra classes on weekends or even after school. Do you believe this is at all useful? Or do you think the education provided in school is sufficient?

Write an essay on the above topic in 350 words. (40 min)

##### Section.3

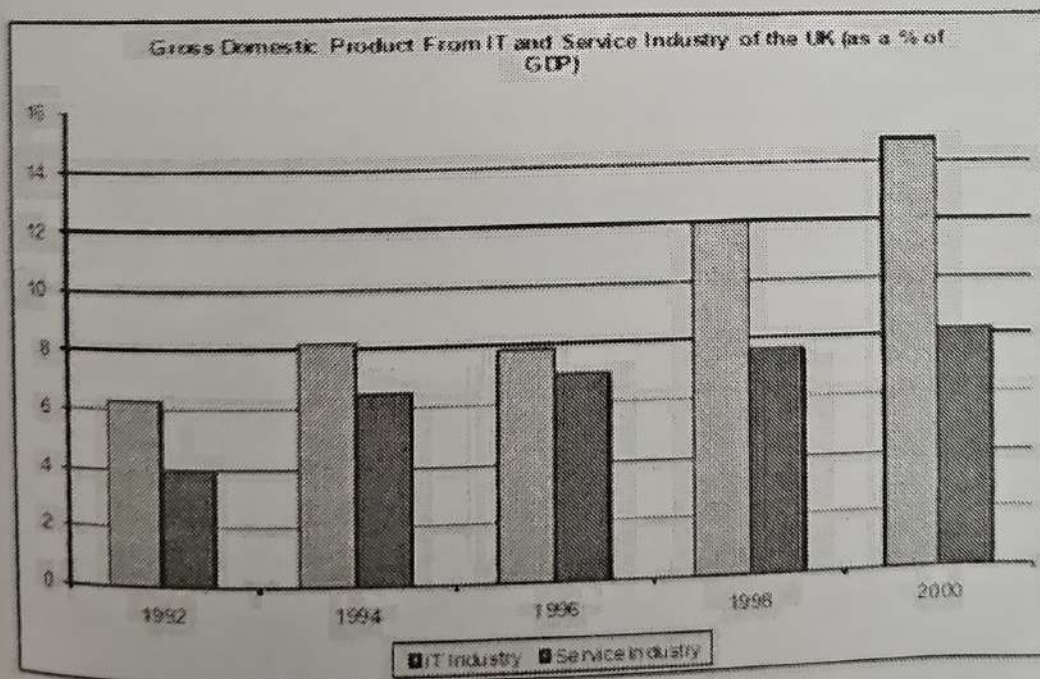
30 MARKS

You should spend about 20 minutes on this task.

That chart shows components of GDP in the UK from 1992 to 2000.

Summarize the information by selecting and reporting the main features and make comparisons where relevant.

(write a least 150 words)





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## ADD ON COURSE

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COURSE NAME IELTS

COURSE FEE

1950

TOTAL

1950

SL.NO	NAME	CLASS
1	ANASWARA. B	III BA ENGLISH
2	LAVANYA. P	III BA ENGLISH
3	VISMAYA. K	III BA ENGLISH
4	ADITHYAN. N	III BA ENGLISH
5	ARON WINS	III BA ENGLISH
6	MUBARIS BIN ALI	III BA ENGLISH
7	AMRUTHA. M. P	III BA ENGLISH
8	MANASI RATHEESH	III BA ENGLISH
9	MEDHA. T. P	III BA ENGLISH
10	MEGHA. V	III BA ENGLISH
11	NANDHITHA. M	III BA ENGLISH
12	ANANTH KRISHNA K	II BA ENGLISH
13	MADHAV RAJ M	II BA ENGLISH
14	SARUN C	II BA ENGLISH
15	SOURAJ RAMACHANDRAN	II BA ENGLISH
16	APARNA K	II BA ENGLISH
17	ASHITHA U	II BA ENGLISH
18	DEVIKA	II BA ENGLISH
19	NANDANA U V	II BA ENGLISH
20	NEHA K V	II BA ENGLISH
21	RASHIDA T V	II BA ENGLISH
22	SANIYA M K	II BA ENGLISH
23	AMAL VIJAYAN	II BA ENGLISH
24	ATHUL MADHU	II BA ENGLISH
25	DEVADATHAN A V	II BA ENGLISH
26	NAVAJYOTH M V	II BA ENGLISH
27	NIDHIN P	II BA ENGLISH
28	AISHA K	II BA ENGLISH
29	ARYA ARUNAN P	II BA ENGLISH
30	DEVIKA UNNIKRIISHNAN	II BA ENGLISH
31	KEERTHANA . P V	II BA ENGLISH
32	KRISHNAMOL K	II BA ENGLISH
33	MARIYAM ASHRAF N K P	II BA ENGLISH
34	SARAYOO PRAKASH C V	II BA ENGLISH



35	SREESHMA P	II BA ENGLISH
36	SREYA C M	II BA ENGLISH
37	DENNIS MATHEW JOHN	I MA ENGLISH
38	FATHIMATH SHAHANA. U	I MA ENGLISH
39	LENA MARIA DSILVA	I MA ENGLISH
40	NANDANA. C. V	I MA ENGLISH
41	RIPINA. P. V	I MA ENGLISH
42	VISMAYA VIJAYAN	I MA ENGLISH
43	SIDHARTH. K. M	II PHYSICS
44	ANUSHARAJ. K. V	II PHYSICS
45	ASHRAY. K	II PHYSICS
46	PRAJEESH. M	II PHYSICS
47	ADITHYA. A	II PHYSICS
48	ANJIMA RAJ	III PHYSICS
49	ARYA C	III PHYSICS
50	BHAGYALAKSHMI	III PHYSICS
51	NANDANA K V	III PHYSICS

TOTAL STUDENTS

51

TOTAL AMOUNT PAID

1950x51





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#### LISTENING

PRACTISING ALL QUESTION TYPES. (MONOLOGUES, DIALOGUE, CONVERSATION)  
RECOGNISING INTONATION PATTERNS (QUESTIONS, SURPRISE ETC)  
VARIETIES OF SPOKEN ENGLISH, INCLUDING AUSTRALIAN, BRITISH, NORTH AMERICAN AND NEW ZEALAND  
LISTENING FOR SPECIFIC INFORMATION, KEYWORDS, GENERAL INFORMATION, NUMBERS, TRANSITION SIGNALS AND DISCOURSE  
MARKERS (FIRSTLY, SECONDLY, OBVIOUSLY, FURTHERMORE, INDEED).

#### READING

PRACTISING 3 SECTION OF READING TESTS.  
SKIMMING (TO GET A GENERAL UNDERSTANDING)  
SCANNING (LOOKING FOR SPECIFIC INFORMATION)  
DEVELOPING VOCABULARY  
SUMMARISING  
DETERMINING THE WRITER'S ATTITUDE AND OPINION.

#### WRITING

PRACTISING ESSAY, GRAPH / DIAGRAM DESCRIPTION.  
ADJUSTING STYLE ACCORDING TO PURPOSE.  
WRITING PARAGRAPHS, INTRODUCTIONS AND CONCLUSIONS.  
USING CONJUNCTIONS AND REFERENTS.  
ORGANISING INFORMATION LOGICALLY WITHIN A TEXT.  
USING EXAMPLES AND EVIDENCE TO SUPPORT AN ARGUMENT.

#### PEAKING

PRACTISING ALL QUESTION TYPES.  
PRACTISING PRONUNCIATION AND INTONATION.  
PRACTISING FLUENCY.  
USING AND UNDERSTANDING COMMON PHRASES.  
INTERACTING WITH OTHER SPEAKERS.  
SPEAKING FOR AN EXTENDED TIME ON A PARTICULAR TOPIC.  
PRACTICE HOW TO DEVELOP A CONTENT

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WORLD'S MOST STUDIED FOREIGN LANGUAGE.  
WITH SO MANY PEOPLE STUDYING AND LEARNING  
ENGLISH, PROFICIENCY EXAMS LIKE IELTS HELP  
ADMISSIONS OFFICERS AND PROSPECTIVE  
EMPLOYERS TO GET AN ACCURATE PICTURE OF  
YOUR CURRENT ENGLISH LEVELS.

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EMPLOYMENT PROSPECTS.  
EXCELLENT COMMUNICATION SKILLS ARE  
ESSENTIAL THESE DAYS AS FIFTY-FIVE COUNTRIES  
HAVE ENGLISH AS THEIR FIRST LANGUAGE.  
DEMONSTRATING A GOOD COMMAND OF THE  
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PURSUE A CAREER IN A FOREIGN COUNTRY.

THE PROCESS OF PREPARING TO TAKE THE IELTS  
TEST WILL SIGNIFICANTLY IMPROVE YOUR  
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HELP YOU GET A NEW JOB OR A PROMOTION IN  
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Date

**ATHIRA K SHAJI**  
ACADEMIC HEAD



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Date

**ATHIRA K SHAJI**  
ACADEMIC HEAD