

UNIVERSITY OF KERALA

SCHOOL OF DISTANCE EDUCATION

BSc Mathematics Semester II Assignment/Case analysis

Language Course (B.A/B Sc English III)
ENVIRONMENTAL STUDIES: EN 1211.1

ASSIGNMENT TOPICS

Attempt any 2 topics each in 3-4 pages

- 1) What is an ecosystem? What are the main types of ecosystems?.
- 2) The need for Environmental Studies.
- 3) Write an essay on effective solid waste management.
- 4) Explain the threats to biodiversity

(10 marks)

Case Analysis

Write a report on the possible ways of addressing the increasing heat during summer months in Kerala. What are the steps we could take as individuals.

(10 marks)

SEMESTER II

**Language Course 4: MODERN ENGLISH GRAMMAR AND USAGE
(BA/BSc English IV) EN 1212.1.**

ASSIGNMENT TOPICS

Attempt these topics each in 3-4 pages

1. Tense forms and their uses.
2. Nouns, Verbs, Adjectives and Adverbs

(10 marks)

Case Analysis

Write one page each on any five proverbs in English.

(10 marks)

ബി.എ/ബി.എസ്.സി (രണ്ടാം സെമസ്റ്റർ)

അഡീഷണൽ ലാംഗ്വേജ് (മലയാളം)

അസൈൻമെന്റ്

മലയാള ചെറുകഥയുടെ വികാസ പരിണാമങ്ങൾ

അല്ലെങ്കിൽ

മലയാളനോവലിന് എം. മുക്തൻ്റെ സംഭാവനകൾ.

പ്രശ്നോപഗ്രഹനം (Case Analysis)

ഉപന്യാസങ്ങൾ മലയാള ഗദ്യത്തിൻ്റെ വികാസനത്തിൽ വഹിച്ച പങ്ക്.

അല്ലെങ്കിൽ

മലയാള നോവലും ആധുനികതയും - ഉപന്യസിക്കുക.

TOPICS FOR ASSIGNMENT AND CASE ANALYSIS

BA/B Sc Additional Language HINDI

Second Semester HN 1211.1 Course I – Fiction, Short stories and Novel

ASSIGNMENT TOPICS

किन्हीं चार पर आलोचना कीजिए : (10 marks)

1. दूध का दाम-प्रेमचंद
2. पर्दा-यशपाल
3. हीलीबोन की बतखें –अज्ञेय
4. हथियारे – अमरकांत
5. हिंदी उपन्यास का उद्भव और विकास

Case Analysis

किन्हीं चार पर आलोचना कीजिए | (10 marks)

1. हरी बिंदी- मृदुला गर्ग
2. आना इस देश- कृष्णा अग्निहोत्री
3. हिन्दी का गद्य साहित्य
4. हिन्दी कहानी का उद्भव और विकास
5. 'आना इस देश' उपन्यास के प्रमुख पात्र

Assignment questions

BSc Mathematics Semester II-2019

Foundations of Mathematics –MM1221

1) In $\mathbb{Z}/13\mathbb{Z}$

i) Find the inverse of the following

a) [4] ,

b) [7]

c) [5]

ii) Solve a) [4] X=[7] ,

a) [5] X = [12]

b) [7] X=[8] ;

2) Find the units of $\mathbb{Z}/16\mathbb{Z}, \mathbb{Z}/7\mathbb{Z}; \mathbb{Z}/13\mathbb{Z} , \mathbb{Z}/8\mathbb{Z}$

3) Find the order of [3] in $\mathbb{Z}/7\mathbb{Z}$

4) Find the order of [2] in $\mathbb{Z}/m\mathbb{Z}$; Where

i) $m=11$; ii) $m=17$; iii) $m=31$; iv) $m=9$; v) $m=14$

5) Verify that $2^{\phi(21)} \equiv 1 \pmod{21}$

6) Evaluate the following integrals

i) $\int \cot x \cdot \operatorname{cosec}^2 x dx$; ii) $\int \sin^3 2x dx$; iii)

$\int x\sqrt{4-x} dx$; iv) $\int \cot x dx$; v) $\int \frac{3x}{1+x^2} dx$

7) Sketch a graph of the equation $y = x^3 - 3x + 2$

8) Sketch the graph of $r = a(1 - \cos\theta)$ in polar coordinates, $a \geq 0$

9) Find the area of the region bounded by first quadrant and the cardioid

$$r = (1 - \cos\theta)$$

10) Find the arc length of the curve $y = x^{3/2}$; from (1,1) to $(2, 2\sqrt{2})$

Random Variables ST1231.1

- 1) Discuss different types of random variables with examples
- 2) Define and discuss mathematical expectations and its usage
- 3) Define and discuss moment generating function and its usage
- 4) Explain poisson distribution and its properties
- 5) If X is a normal variables $N(40, 5^2)$, find the probabilities for the values as
 - i) $p\{32 < x < 50\}$; ii) $p |X - 40| > 5$; iii) $p(X \leq 25)$;
 - iv) $p(X \geq 44)$; $p\{31 < x < 35\}$
- 6) Find the value of c such that $f(x) = ce^{-(x^2-6x+9) / 32}$;
 $-\infty < x < \infty$. also find the mean and variance.

Advanced financial Accounting

CO -1131

- 1) "A balance sheet is a statement summarizing the financial position of a business on a given data". Discuss
- 2) What is meant by leverage Explain how leverage may be employed by a finance company
- 3) Classify assets and liabilities with suitable examples
- 4) What is partnership deed. explain the methods of preparing partnership accounts
- 5) Explain the types of errors
- 6) What do you mean by suspense account
- 7) Pass journal entry for the following cases

- i) purchase of furniture was passed in purchase book amounting Rs 25000
- ii) Wages paid for installation of machine posted to wages account amounting Rs. 7000
- iii) Goods worth Rs.15000 returned to supplier was not recorded in the books
- vi) Goods worth Rs.23,000 sold to Anil was not recorded in the books
- v) Commission received from Z Rs 2,500 was not recorded in books