

How will you prepare benzene from the following

- a) acetone, (C_6H_2)
- b) Phenol (C_6H_5OH)
- c) Sodium benzoate (C_6H_5COONa)
- d) Benzene sulphonic acid $(C_6H_5SO_3H)$
- e) Benzene diazonium chloride $(C_6H_5N_2Cl)$

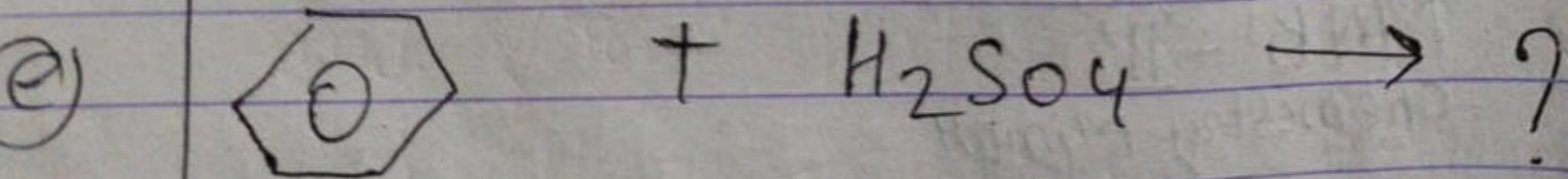
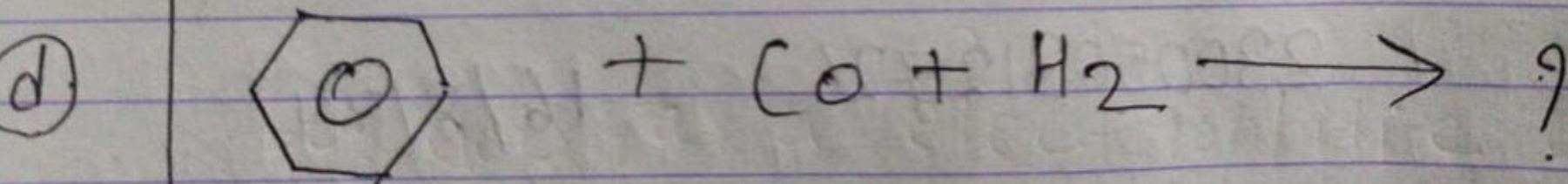
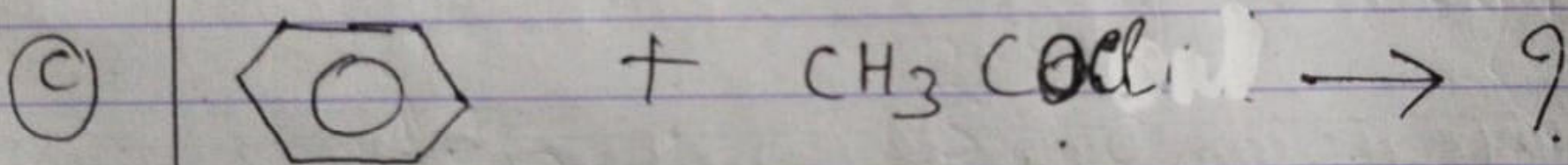
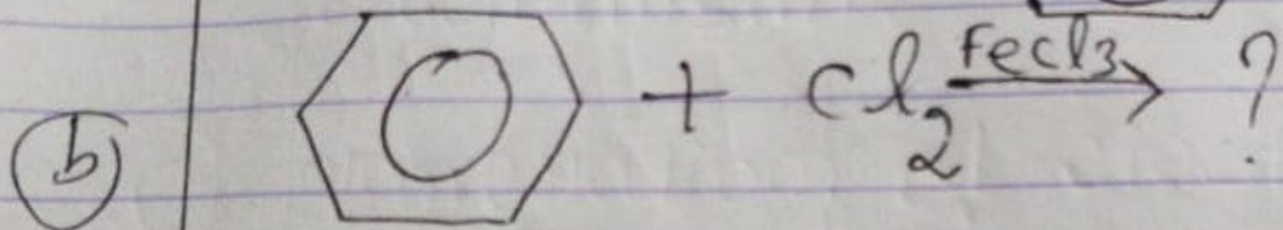
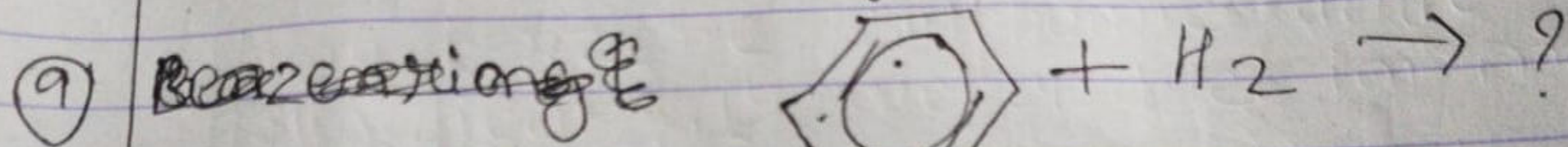
Give the mechanism of nitration of benzene

जिन विद्यार्थियों ने 2 B में अर्थशास्त्र रखा है उनका 25 नंबर का VIVA होगा विश्वविद्यालय के परीक्षा के बाद होगा। और विश्वविद्यालय के आदेशानुसार तिथि निर्गत की जाएगी।

Assignment questions for Semester IV Botany Minor from discipline
Answer any Three Questions. Each answer carries five marks:-

1. Describe the structure of strobilus of Selaginella.
2. Describe the anatomical structure of Pinus needle leaf.
3. Explain the Mechanism of transpiration.
4. Illustrate the steps involved in Glycolysis.
5. What is photophosphorylation? Describe the carbon fixation in Calvin cycle.

3:- Give the products of the following reaction



परीक्षार्थी नीचे से लिखना प्रारंभ करें।

you prepare benzene from
ene. (C_6H_2)
ol (C_6H_5OH)
m benzoate. (C_6H_5COONa)
ene sulphonic acid (C_6H_5
me diazonium chloride (C_6H_5

mechanism of Nitration

B.Com Sem IV (2022-2026)
Minor Paper Internal Assignment

Income Tax, Computation & Return Filing.

Answer any 2 questions.

- Q. 1) Explain the income taxable under different Head of Individual Assesses.
- Q. 2) Discuss the Gross Total Income
- Q. 3) Explain the deductions allowed from Gross Total Income.
- Q. 4) What is e-filing? Explain the merits of e-filing.
- Q. 5) Write a short note on —
- a) PAN
 - b) TDS

R.S.P. College Tharis

⑩ Internal exam UG. Sem-IV
Paper - English MN 1B

Answer any two of the following: -

1. Critically analyse the novel "Samskara"
2. Justify the title of the story "Sedgafi" by Premchand
3. Write the theme of the poem "The Store".
4. Justify "Tughlaq" is a historical play.

B.A. Hindi (MN 23)

Sem-IV, (कामकाजी हिन्दी)

Session- 2022-23

1. निम्नलिखित प्रश्नों में से किसी दो के उत्तर दें:- F.M. 20
- (क) कामकाजी हिन्दी के स्वरूप एवं क्षेत्र पर प्रकाश डालें।
- (ख) प्रयोजनमूलक हिन्दी के विकास में पारिभाषिक शब्दावली के योगदान का वर्णन करें।
- (ग) कार्यालयी हिन्दी के प्रमुख कार्यों का वर्णन करें।
- (घ) 'संक्षेपण' पर संक्षिप्त विषयी लिखें।

Internal Question,UG, SEM 4, History Minor

किन्हीं दो प्रश्नों के उत्तर दे।

1. संग्रहालय प्रबंधन का अर्थ एवं उद्देश्यों पर प्रकाश डालें।
2. संग्रहालय प्रबंधन में जलवायु की भूमिका पर प्रकाश डालें।
3. संग्रहालय में आपदाओं से बचाव के क्या क्या उपाय किए जाते हैं।

Internal Assignment, 2024

Minor From discipline - Philosophy

Semester - IV

Session: 2022-23

Paper: - MN-IB: Ved Upanishad and Bhagavadgita

Qn. 1. Explain the concept of Rta.

ऋत की अवधारणा की विवेचना करें।

Qn. 2. Describe the concept of Nishkama Karma.

निष्काम - कर्म की अवधारणा का वर्णन करें।

RSP COLLEGE, JHARIA

INTERNAL ASSESSMENT OF POLITICAL SCIENCE

SEM : IV (MINOR - 2B) [2022 - 26]

PAPER : INDIA'S SECURITY ENVIRONMENT

Answer both questions

Full Marks : 20

सभी प्रश्नों के उत्तर दें।

पूर्णांक : 20

1. What are the determinants of 'Soft Power' ?
Explain the relevance of Soft Power Diplomacy in India's foreign policy.

'मृदु शक्ति' के निव्यक्ति तत्व की आधारता करतया भारत की विदेश नीति में मृदु शक्ति दूतनीति की प्रासंगिकता की स्पष्ट करे।

2. Explain the Chinese threat to India's military and strategic interests in South Asia.

दक्षिण एशिया में भारत के सैन्य और रणनीतिक हितों के लिए चीनी खतरों की आधारता करे।

Sans MN-~~10~~

1. वेद कितने हैं? वेद का अर्थ निरूपण करें? — 05

वेदांग किसे कहते हैं? वेदों परिभाषित करें?

2. शमायण की उपजीव्यता के बारे बतलायें? 05

आर्ष काव्य किसे कहते हैं? बतलायें?

3. पुराण के लक्षण क्या हैं? सविस्तार लिखें?

श्रीमद्भगवत पुराण में वि वर्णित विषय का साद संक्षेप लिखें?

(Mid Term: CC - 8)

Full Marks: 15.

Time : $1\frac{1}{2}$ hrs.

Answer any three questions.

1. Define transcendental equation and derive the formula in the Newton-Raphson process to solve the transcendental equation. 5.
2. Define transcendental equation and derive the formula in the Regula-Falsi process to solve the transcendental equation. 5.
3. Derive Newton's forward Interpolation formula. 5.
4. Derive the formula in the Simpson's Rule for numerical integration. 5.
5. Derive the formula in the Runge-Kutta process to solve first order differential equation. 5.

Maths. (Hons)

(Mid Term: CC - 10)

Full Marks: 15.

Time : $1\frac{1}{2}$ hrs.

Answer any three questions.

2. Define ring and subring and prove that intersection of two subrings is a subring. 5.
2. Prove that finite integral domain is a field. 5.
3. Define Vector space and its basis. 5.
4. Define linear independence of vectors and check whether the vectors $(1, 1, 0)$, $(0, 1, 1)$ and $(0, 0, 1)$ are linearly independent. 5.
5. Define linear transformation and its null & nullity. 5.

(Mid Term: CC - 9)

Full Marks: 15.

Time : $1\frac{1}{2}$ hrs.

Answer any three questions.

1. Define Riemann Integrability of a bounded real valued function. 5.
2. Define $\beta(m, n)$ & $\gamma(n)$ and prove that $\gamma(n+1) = n\gamma(n)$. 5.
3. Define uniform convergence of a sequence of function and state Cauchy Criterion for uniform convergence. 5.
4. Define limit superior and limit inferior as well as power series. 5.
5. State Cauchy Hadamard theorem. 5.

Generic Elective (Maths.)

(Mid Term: GE - 4)

Full Marks: 15.

Time : $1\frac{1}{2}$ hrs.

Answer any three questions.

1. Define abelian group with an example with finite elements. 5.
2. Define addition modulo m and multiplication modulo p of integers. 5.
3. Define subgroup, coset and index of a subgroup. 5.
4. State and prove Lagrange's theorem. 5.
5. Define Normal subgroup and Quotient group. 5.

INTERNAL EXAM. 2024
R.S.P. COLLEGE JHARIA

Subject: URDU MINOR B-2
Class :- UG SEMESTER - IV

Subject: URDU (MINOR - B2)

کسی دو سوالوں کے جواب دیجئے

سوال نمبر ۱ - ترجمہ کی اہمیت اور استعمال پر روشنی ڈالئے

سوال نمبر ۲: ترجمہ کے اصول اور تکنیک پر روشنی ڈالئے

سوال نمبر ۳: مترجم کے بنیادی فرائض پر قلم بند کریں

Sem I
Zoology (Minor)

Q.1 Explain Mendel's law of inheritance on the basis of monohybrid and dihybrid cross

Why did Mendel use pea as experimental material in his experiment.

Q.2: - What is crossing over? Write its types and mechanism. Write its significance also

Q.3: - Describe molecular structure of DNA. Write the peculiarities of Watson and Crick's model of DNA.

Q.4: - Give an account of Semiconservative mode of DNA replication

Q.5: - Write an essay on transcription in prokaryotes.

Q.6: - Give a brief account of Lamarckism

Q.7: - Write an essay on Darwin's theory of natural selection

Q.8: - What is ecosystem? Describe the structure and function of typical ecosystem.

Q.9: - What do you understand by "Ecosystem energetics"? Write a brief account of energy flow in an ecosystem.

Q.10 - Define air pollution. Write its major sources and causes effects on write its effects on living & nonliving. How it is prevented?

Short notes: - (a) Food chain (b) Ecological pyramid

(c) Greenhouse effect (d) Linkage (e) Sources of water pollution

(f) Acid rain (g) Ozone layer depletion (h) Food web.

Semester IV (Eco MN-2B)

Tourism and Travel management
(पर्यटन एवं यात्रा प्रबंधन) (Tm-10)
(Viva-15)

Answers any two :-
किन्हीं दो प्रश्नों का उत्तर दीजिए।

Q.1 what is Travel Tourism. write
two differences between Domestic (5)
and International Tourism?

यात्रा पर्यटन क्या है? घरेलू एवं
अन्तर्राष्ट्रीय पर्यटन में दो अंतर
लिखिए।

Q.2 what are the factors influencing
the development of Tourism (5)
in Sharbhand?

शाखवांड में पर्यटन के विकास को
प्रभावित करने वाले कारक कौन-
कौन से हैं?

Q.3 what do you mean by Tourist
and Travelers, what are the
Push and Pull factors of (5)

Tourism. पर्यटक और यात्री से आप
का समझते हैं? पर्यटन के प्रेरणा,
आकर्षण कारक क्या हैं?

(17 oct 2024 को File में बनाकर जमा है)

R.S.P. College, Jharia (Belgaria), Dhanbad

B.Com. Sem - IV, Session: (2022-2026)

TIN-2B - Income Tax, Computation & Return Filing

All student are directed to prepare a project on any two of the following topic:—

- 1) E-filing process of Tax deducted at source (TDS)
- 2) Income tax Return Filing Process
- 3) New and Old Tax Regime under Income Tax
- 4) Corporate Income Tax Return Filing
- 5) Deductions from Total Income