ACCELERATED
LEARNING PROGRAMME
(ALP)

تسریع التعلّم پروگرام

برائے

انٹرمیڈیٹ کلاسز

پنجاب کریکولم اینڈ ٹیکسٹ بک بورڈ، لاہور

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ENGLISH GRAMMAR AND COMPOSITION

LETTERS

1. Letter to your younger brother advising him to pay attention to his studies and avoid bad company.
2. Letter to your father requesting him to increase your monthly allowance.
3. Letter to your friend describing him/ her your first impression of college life.
4. Letter to your friend inviting him to attend the marriage of your brother/ sister.
5. Letter to your mother/ father describing your progress in studies.
6. Letter to your younger brother/ sister suggesting some methods for improving English.
7. Letter to your brother/ uncle/ friend thanking him for sending you a beautiful gift on your birthday.
8. Letter to your friend requesting him/ her to lend you some books.
9. Letter to your friend congratulating him/her on his/ her success in his examination.
10. Letter to your friend telling him/her about the profession you want to adopt.
11. Letter to your friend, condoling on the death of his/her mother.
12. Letter to your father about your health and studies.

APPLICATIONS

1. Application to the Principal of your college, requesting him/her for full fee concession.
2. Application to the Principal of your college, requesting him/her to grant you sick leave on medical grounds.
3. Application to the Principal of your college, requesting him/her for the issuance/ grant of character certificate.
4. Application to the Principal of your college, requesting him/her for remission of fine.

5. Application to the Principal of your college, requesting him/her for re-admission in the college.
6. Application to the Principal of your college, requesting him/her for grant of scholarship/financial help from a special fund.
7. Application to the Principal of your college, requesting him/her for change of subject.
8. Application to the Principal of your college, requesting him/her for refund of library security.

STORIES

1. Honesty is the Best Policy
2. No Pains, No Gains
3. A Foolish Stag
4. The Hen That Laid Golden Eggs
5. The Slave and the Lion
6. A Friend in Need is a Friend Indeed
7. The King and the Spider
8. The Wolf and the Lamb
9. A Stitch in Time Saves Nine
10. Tit for Tat
11. A Rolling Stone Gathers No Moss
12. Grapes are Sour

GENERAL STATEMENT

Teachers will teach the following grammar items in the classroom and will assign the same as homework for the reinforcement:

- Correct use of tenses and verbs
- Punctuation
- Pair of words

NOTE:

- In objective type paper, the question, 'choose the right option of the underlined words" should be given from the retained lessons only.
- Explanation of the stanza with reference to the context will be given from the retained poems only.
- Punctuation will be given from the retained lessons of English Book-I.
- The passage to translate into Urdu will be selected from the retained lessons of English Book-I.
- The students whose medium of instruction is English will write an essay on an unseen topic.

اُردو جماعت۔11

درسی کتاب کے اسباق

(الف) حصہ نثر

1۔اُسوۂ حسنہ (خَاتَمُ النَّبِیِّیْنَ صَلَّی اللّٰہُ عَلَیْہِ وَعَلٰی آلِہٖ وَاَصْحَابِہٖ وَسَلَّمْ)

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ہوم ورک: سوال نمبر 2، 3، 4(جز iv, v)، 6

2۔اپنی مدد آپ

کلاس ورک: سوال نمبر 1(جز i,ii,iii)، 4، 6

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3۔ابوالقاسم زہراویؒ

کلاس ورک: سوال نمبر 2(جز i,ii,iii)، 3

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4۔سفارش

کلاس ورک: سوال نمبر 2(جز i، ii، iii)، 3، 5

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6۔مکتوباتِ اقبالؒ

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7۔دوستی کا پھل

کلاس ورک: سوال نمبر 1(جز i، ii، iii، iv، v)، 3

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8۔اور آنا گھر میں مرغیوں کا

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ہوم ورک: سوال نمبر 1، 2(جز iv، v)، 3

(ب) حصہ نظم

1۔حمد	کلاس ورک:	سوال نمبر 2،4،5
	ہوم ورک:	سوال نمبر 1،3،6
2۔نعت	کلاس ورک:	سوال نمبر 1،2،3
	ہوم ورک:	سوال نمبر 4،5،6،7
3۔میدانِ کربلا میں صبح کا منظر	کلاس ورک:	سوال نمبر 2،3،6
	ہوم ورک:	سوال نمبر 1،4،5
4۔ہلالِ استقلال	کلاس ورک:	سوال نمبر 2،3،4
	ہوم ورک:	سوال نمبر 1،5
5۔خطاب بہ جوانانِ اسلام	کلاس ورک:	سوال نمبر 1،2،4(الف)، 6
	ہوم ورک:	سوال نمبر 3،5(الف)
6۔پیغام	کلاس ورک:	سوال نمبر 4(ب)
	ہوم ورک:	سوال نمبر 5(ب)
7۔وحدانیت	کلاس ورک:	سوال نمبر 1،3،4،5
	ہوم ورک:	سوال نمبر 2،6،7

(ج) حصہ غزل

1۔میر تقی میر — جس سر کو غرور آج ہے، یاں تاج وری کا

کلاس ورک: سوال نمبر 1 (پہلی نو سطریں)،4 (پہلی تین تراکیب)

ہوم ورک: سوال نمبر 2 (صرف پہلی غزل کے حوالے سے)،3(جز i، iii، iv)،5

2۔حیدر علی آتش — یہ آرزو تھی، تجھے گل کے روبرو کرتے

کلاس ورک: سوال نمبر 1،3(جز i، ii)،5 (دوسری ترکیب)

ہوم ورک: سوال نمبر 3(جز iii، iv)،4،6

3۔ میرزا خاں داغ　　خاطر سے یا لحاظ سے، میں مان تو گیا

کلاس ورک:　　سوال نمبر 1(جز iii,ii)، سوال نمبر 2

ہوم ورک:　　سوال نمبر 3(شعر نمبر 3 کی تشریح)، سوال نمبر 4(پہلی چار تراکیب)

4۔ مومن خاں مومن　　ٹھانی تھی دل میں، اب نہ ملیں گے کسی سے ہم

کلاس ورک:　　سوال نمبر 1(جز iii)،3(ii)

ہوم ورک:　　سوال نمبر 2(جز iv،ii)،4(iii، ii،i)

5۔ حسرت موہانی　　بھلا تا لاکھ ہوں لیکن برابر یاد آتے ہیں

کلاس ورک:　　سوال نمبر 1(پہلی غزل کے حوالے سے)،3(ii)

ہوم ورک:　　سوال نمبر 2(جز i)،6

6۔ فیض احمد فیض　　نہ گنواؤ ناوکِ نیم کش، دل ریزہ ریزہ گنوا دیا

کلاس ورک:　　سوال نمبر 1،2(جز i،ii، iii، iv)

ہوم ورک:　　سوال نمبر 3،4،5،(i،ii)،6

7۔ احمد ندیم قاسمی　　اب تو کچھ اور ہی اعجاز دکھایا جائے

کلاس ورک:　　سوال نمبر 3(جز i،ii)،4،7(iv)

ہوم ورک:　　سوال نمبر 5(صرف دوسری غزل کے حوالے سے)

قواعد و انشا

(الف)　مکالمہ نگاری

(i)　دو دوستوں کے درمیان علم کے فائدے کے موضوع پر مکالمہ لکھیں۔

(ii)　دو دوستوں کے درمیان جہیز ایک سماجی برائی کے موضوع پر مکالمہ تحریر کریں۔

(iii)　دو سہیلیوں کے درمیان فیشن کے موضوع پر مکالمہ تحریر کریں۔

(iv)　دو دوستوں کے درمیان انٹرنیٹ کے فوائد و نقصانات پر مکالمہ تحریر کریں۔

(v)　دو نوجوانوں کے درمیان ملک میں بڑھتی ہوئی بے روزگاری کے موضوع پر مکالمہ لکھیں۔

(vi) بڑھتی ہوئی رشوت ستانی کے بارے میں دو دوستوں کے درمیان مکالمہ تحریر کریں۔

(vii) دو دوستوں کے درمیان استاد کا احترام کے موضوع پر مکالمہ تحریر کریں۔

(viii) دو دوستوں کے درمیان ملک میں بڑھتی ہوئی مہنگائی کے موضوع پر مکالمہ لکھیں۔

(ix) دو دوستوں کے درمیان گداگری ایک لعنت کے موضوع پر مکالمہ تحریر کریں۔

(x) دو دوستوں کے درمیان ہم نصابی سرگرمیوں کے موضوع پر مکالمہ لکھیں۔

(ب) روداد

(i) سیرت النبی (خَاتَمُ النَّبِيِّيْنَ صَلَّى اللهُ عَلَيْهِ وَعَلٰى آلِهٖ وَاَصْحَابِهٖ وَسَلَّمَ) کی تقریب کی روداد قلم بند کیجیے۔

(ii) کسی تفریحی مقام کی سیر کی روداد تحریر کریں۔

(iii) کالج میں ہونے والی سالانہ کھیلوں کی تقریب کی روداد تحریر کریں۔

(iv) اپنے کالج میں یومِ اقبالؒ کے حوالے سے ہونے والی تقریب کی روداد تحریر کریں۔

(v) یومِ قائدِ اعظمؒ پر ہونے والی تقریب کی روداد تحریر کریں۔

(vi) یومِ آزادی پر منعقد ہونے والی تقریب کی روداد تحریر کریں۔

(vii) کسی میچ کا آنکھوں دیکھا حال لکھیں۔

(viii) اپنے کالج میں جلسہ تقسیم انعامات کی روداد تحریر کریں۔

(ix) کالج میں منعقدہ مقابلہ حسنِ نعت کی روداد تحریر کریں۔

(x) کسی شادی کی تقریب کی روداد تحریر کریں۔

(ج) درخواستیں

(i) پرنسپل کے نام کریکٹر سرٹیفکیٹ کے حصول کے لیے درخواست تحریر کیجیے۔

(ii) ڈپٹی کمشنر کے نام اپنے علاقے میں پارک کے قیام کی درخواست لکھیں۔

(iii) کالج کے پرنسپل کے نام تعلیمی سیر پر جانے کی درخواست لکھیں۔

(iv) چیئرمین بلدیہ کے نام علاقے کی صفائی کے لیے درخواست لکھیں۔

(v) پرنسپل کے نام جرمانہ معافی کے لیے درخواست تحریر کریں۔

(vi) پوسٹ ماسٹر کے نام پارسل گمشدگی کی بابت درخواست تحریر کیجیے۔

(vii) پوسٹ ماسٹر کے نام ڈاک کی ناقص تقسیم کے بارے میں درخواست تحریر کیجیے۔

(viii) چیئرمین بورڈ کے نام سند جاری کرنے کے لیے درخواست لکھیں۔

(ix) نام خارج ہونے کے بعد، پرنسپل کے نام دوبارہ داخلے کے لیے درخواست لکھیں۔

(x) موٹر سائیکل چوری ہونے کی رپورٹ تھانے میں درج کرانے کے لیے درخواست لکھیں۔

☆ اساتذہ کرام طلبہ کو درج ذیل کی تفہیم/مشق کروائیں اور اعادہ کے لیے ہوم ورک بھی دیں۔

(د) عبارت کی تلخیص/عنوان

(ہ) شعری اصطلاحات (قافیہ، ردیف، مطلع، مقطع)

(و) تشبیہ، تلمیح، استعارہ

(ز) جملوں کی درستی (تذکیر و تانیث کے حوالے سے)

اسلامیات لازمی ۔ 11

باب اوّل: بنیادی عقائد

(i) **توحید** (عقیدہ کا معنی و مفہوم، توحید کا مفہوم، انسانی زندگی پر عقیدۂ توحید کے اثرات، شرک اور اس کی اقسام) (صفحہ 1، 4 تا 7)

کلاس ورک: تدریسِ سبق، سوال نمبر 1، 3 (صفحہ 19)

ہوم ورک: سوال نمبر 6 (صفحہ 19)

(ii) **رسالت** (رسالت کا مفہوم و اہمیت، رسالت محمدی صَلَّى اللهُ عَلَيْهِ وَعَلٰى آلِهٖ وَاَصْحَابِهٖ وَسَلَّمْ اور اس کی خصوصیات، ختمِ نبوّت) (صفحہ 7، 8، 10 تا 13)

کلاس ورک: تدریسِ سبق، سوال نمبر 7 (صفحہ 19)

ہوم ورک: سوال نمبر 13 تا 15 (صفحہ 19)

(iii) **ملائکہ اور آسمانی کتابیں** (صفحہ 13 تا 15)

کلاس ورک: تدریسِ سبق

ہوم ورک: سوال نمبر 5 (الف، ب) (صفحہ 19)

(iv) **عقیدۂ آخرت** (عقیدۂ آخرت کا مفہوم واہمیت، عقیدۂ آخرت کے انسانی زندگی پر اثرات) (صفحہ 15، 17، 18)

کلاس ورک: تدریسِ سبق، سوال نمبر 9 (صفحہ 19)

ہوم ورک: سوال نمبر 11، 12 (صفحہ 19)

باب دوم: اسلامی تشخص

(i) **ارکانِ اسلام** (کلمۂ شہادت، نماز (مکمل)، روزے کا مفہوم واجتماعی فوائد، زکوٰۃ کا معنی، مفہوم واہمیت، زکوٰۃ کے مصارف، زکوٰۃ کا نصاب، حج، جامعیت، فوائد، جہاد کا مفہوم وفضائل) (صفحہ 20 تا 33)

کلاس ورک: تدریسِ سبق، سوال نمبر 1 تا 3 (صفحہ 48)

ہوم ورک: سوال نمبر 4، 5 (صفحہ 48)

(ii) **اللہ تعالیٰ اور رسول اللہ صَلَّی اللّٰہُ عَلَیْہِ وَعَلٰی آلِہٖ وَاَصْحَابِہٖ وَسَلَّمْ کی محبت واطاعت** (صفحہ 33 تا 34)

کلاس ورک: تدریسِ سبق

(iii) **حقوق العباد** (والدین، اساتذہ اور غیر مسلموں کے حقوق) (صفحہ 34، 35، 37 تا 39)

کلاس ورک: تدریسِ سبق، سوال نمبر 6 جزوی (صفحہ 48)

ہوم ورک: سوال نمبر 8 جزوی (صفحہ 48)

(iv) **معاشرتی ذمہ داریاں** (محاسنِ اخلاق: دیانت داری، عدل وانصاف، کسبِ حلال، ایثار۔ رذائلِ اخلاق: جھوٹ، غیبت، منافقت) (صفحہ 39 تا 46)

کلاس ورک: تدریسِ سبق، سوال نمبر 10، 11 (جزوی) (صفحہ 48)

ہوم ورک: سوال نمبر 12، 14 (صفحہ 48)

باب سوم: اسوۂ رسول اکرم صَلَّی اللّٰہُ عَلَیْہِ وَعَلٰی آلِہٖ وَاَصْحَابِہٖ وَسَلَّمْ

(i) **رحمۃٌ لِّلعالمین** (صفحہ 49 تا 51)

کلاس ورک: تدریسِ سبق، سوال نمبر 1 (الف، ب) (صفحہ 56)

ہوم ورک: سوال نمبر 1 (ج، د) (صفحہ 56)

(ii) **صبر واستقلال** (صفحہ 52 تا 53)

کلاس ورک: تدریسِ سبق

ہوم ورک: سوال نمبر 5 (صفحہ 56)

(iii)ذکر (صفحہ 54 تا 55)

کلاس ورک: تدریسِ سبق

ہوم ورک : سوال نمبر 6 (صفحہ 56)

باب چہارم: تعارف قرآن وحدیث

(i) **تعارفِ قرآن** (قرآنِ مجید کا نزول، قرآنِ مجید کی حفاظت، قرآنِ مجید کی ترتیب، عہدِ صدیقیؓ میں قرآنِ مجید کی جمع آوری اور تدوین) (صفحہ 58، 60، 61)

کلاس ورک: تدریسِ سبق، سوال نمبر 1 (جزوی) (صفحہ 74)

ہوم ورک: سوال نمبر 4، 5 (جزالف) (صفحہ 74)

(ii) **تعارفِ حدیث** (حدیث کے معنی، حدیث کی دینی حیثیت، حدیث کی حفاظت، تدوینِ حدیث، دورِ اوّل، اصولِ اربعہ) (صفحہ 64 تا 67)

کلاس ورک: تدریسِ سبق، سوال نمبر 6، 7 (صفحہ 74)

ہوم ورک: سوال نمبر 9 (جزوی) (صفحہ 74)

(iii) **منتخب آیات:** (آیت نمبر 2، 3، 4، 7، 8، 12) (صفحہ 68 تا 71)

آیت نمبر: 2، 3

کلاس ورک: آیت نمبر 2 اور 3 کے متن کی درست تلفظ کے ساتھ ادائیگی، ترجمہ اور تشریح

ہوم ورک: ترجمہ اور تشریح نوٹ بک میں لکھنا اور یاد کرنا

آیت نمبر: 4، 7

کلاس ورک: آیت نمبر 4 اور 7 کے متن کی درست تلفظ کے ساتھ ادائیگی، ترجمہ اور تشریح

ہوم ورک: ترجمہ اور تشریح نوٹ بک میں لکھنا اور یاد کرنا

آیت نمبر: 8، 12

کلاس ورک: آیت نمبر 8 اور 12 کے متن کی درست تلفظ کے ساتھ ادائیگی، ترجمہ اور تشریح

ہوم ورک: ترجمہ اور تشریح نوٹ بک میں لکھنا اور یاد کرنا

(iv) **منتخب احادیث** (حدیث نمبر 2، 4، 5، 8، 10، 11) (صفحہ 72 تا 73)

حدیث نمبر: 2، 4

کلاس ورک: حدیث نمبر 2 اور 4 کے متن کی درست تلفظ کے ساتھ ادائیگی، ترجمہ وتشریح

ہوم ورک: ترجمہ اور تشریح نوٹ بک میں لکھنا اور یاد کرنا

حدیث نمبر:5،8

کلاس ورک: حدیث نمبر 5 اور 8 کے متن کی درست تلفظ کے ساتھ ادائیگی، ترجمہ وتشریح

ہوم ورک: ترجمہ اور تشریح نوٹ بک میں لکھنا اور یاد کرنا

حدیث نمبر:10،11

کلاس ورک: حدیث نمبر 10 اور 11 کے متن کی درست تلفظ کے ساتھ ادائیگی، ترجمہ اور تشریح

ہوم ورک: ترجمہ اور تشریح نوٹ بک میں لکھنا اور یاد کرنا

نوٹ:

جو اسباق (ALP) میں برقرار رکھے گئے ہیں انھیں میں سے معروضی، انشائی طرز کا پرچہ بنایا جائے۔

PHYSICS-11

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Precision and Accuracy (Pg. 10,11), Assessment of Total Uncertainty in the Final Result (Pg. 11-14), Dimensions of Physical Quantities (Pg. 16,17), Examples: 1.2, 1.3, 1.4, 1.6 (Pg. 15, 16, 17, 18, 19)

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Homework: Questions: 1.9 (Pg. 20), Numerical Problems: 1.6, 1.9 (Pg.21)

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Homework: Questions: 4.2,4.7 (Pg. 97),Numerical Problems: 4.1, 4.2, 4.7,4.8(Pg.97,98)

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Wavefronts (Pg. 194,195), Huygen's Principle (Pg. 195), Interference of Light Waves (Pg. 195,196), Young's Double Slit Experiment (Pg.196-199), Newton's Rings (Pg. 201,202), Michelson's Interferometer (Pg. 202, 203), Diffraction of Light (Pg. 203, 204), Diffraction due to a Narrow Slit
(Pg. 204,205), Diffraction Gratings (Pg. 205,206), Diffraction of X-Rays by Crystals (Pg. 206,207), Examples: 9.1, 9.2 (Pg. 200)

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CHAPTER 10: OPTICAL INSTRUMENTS

Least Distance of Distinct Vision (Pg. 214, 215), Magnifying Power and Resolving Power of Optical Instruments (Pg. 215, 216), Simple Microscope (Pg. 217, 218), Compound Microscope (Pg. 218, 219), Astronomical Telescope (Pg. 220-222), Spectroscope (Pg. 222, 223), Speed of Light (Pg. 224, 225), Introduction to Fibre Optics (Pg. 225, 226), Fibre Optics Principles (Pg. 226-228), Examples: 101,10.2 (Pg. 220, 230)

Classwork: Questions: 10.3, 10.4, 10.6 (Pg. 233,234), Numerical Problems: 10.1, 10.2, 10.4, 10.6, 10.9 (Pg. 234, 235)

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CHAPTER 11: HEAT AND THERMODYNAMICS

Kinetic Theory of Gases (Pg. 237-243), Internal Energy (Pg. 244,245), Work and Heat (Pg. 245,246), First Law of Thermodynamics (Pg. 246-249), Molar Specific Heat of a Gas (Pg. 249, 250), Reversible and Irreversible Processes (Pg. 250, 251), Second Law of Thermodynamics (Pg. 252, 253), Carnot Engine and Carnot's Theorem (Pg. 253-255), Examples: 11.1, 11.2, 11.3, 11.4 (Pg. 243, 244,247, 255,256)

Classwork: Questions: 11.2, 11.5, 11.8, 11.11 (Pg. 261, 262, 263), Numerical Problems: 11.1, 11.2, 11.3, 11.5, 11.7 (Pg. 263, 264)

Homework: Questions: 11.1, 11.6, 11.7 (Pg. 261, 262), Numerical Problems: 11.4, 11.8, 11.11 (Pg. 264)

EXPERIMENTS

1. Find the unknown weight of a body by the method of vector addition of forces.
2. Find the area of cross section of a wire and volume of a small sphere using micrometer screw guage.
3. Find the acceleration due to gravity by oscillating mass spring system.
4. (i) Study the law of conservation of momentum by colliding trolleys and ticker timer for inelastic collision.
   (ii) Study the law of conservation of momentum by colliding trolleys and ticker timer for elastic collision.

5. Study the fall of a body through a viscous medium and hence deduce the co-efficient of viscosity of the medium.
6. Determine Young's modulus of a wire by Searle's apparatus.
7. Find the moment of inertia of flywheel.
8. (i) Determine frequency of A.C. by Melde's apparatus.
   (ii) Determine frequency of A.C. by using electric sonometer.
9. Investigate the law of vibration of stretched strings by sonometer.
10. Determine the wavelength of sound in air using stationary waves and calculate the speed of sound.
11. Determine the focal length of a convex lens by displacement method.
12. Find the refractive index of the material of a prism using spectrometer.

CHEMISTRY-11

CHAPTER 1: BASIC CONCEPTS

TOPIC: (1.3(1.3.1, 1.3.3), 1.5, 1.6, 1.7, 1.8)
Isotopes (Relative Abundance of Isotopes (Pg.3-4), Average Atomic Mass(Pg. 6-6), Concept of Mole, Stoichiometry, Limiting Reactant, Yield (Pg. 11-22)
Classwork: Q.1 (i, ii, iii, v, x), 2Q.(i, ii, iii, v, vii, viii), Q.3 (i, v, vi, viii) Q.9 to Q.18, Q.20, Q.21,Q.22,Q.25
Homework: Q.5 (a, b), Q.6, Q.7, Q.8 (vi, vii, viii)

CHAPTER 2: EXPERIMENTAL TECHNIQ.UES IN CHEMISTRY

TOPIC: (2.3, 2.4, 2.5)
Solvent Extraction, Chromatography (Pg. 34 to 37).
Classwork: Q.1 (iii, iv, v) Q.2 (1, 4, 5) Q.3 (iv, v) Q.7
Homework: Q.6, Q.8, Q.9, Q.10

CHAPTER 3: GASES

TOPIC: (3.2, 3.3, 3.4, 3.5, 3.7, 3.8, 3.11)
Gas Laws, Dalton's Law of Partial Pressure (Pg. 41 - 57). Kinetic Molecular Theory of Gases, Kinetic Interpretation of Temperature (Pg. 60 - 65). Plasma State (Pg. 73 - 75).
Classwork: Q.1 (i, ii, iii, iv, v, vi, vii, viii), Q.2 (i, ii, iii, v)Q.3(i, ii), Q.8,9, 16,17, 18, 19, 20, 22, 23
Homework: Q.4, Q.5, Q.6, Q.7, Q.10, Q.12.

CHAPTER 4: LIQIUIDS AND SOLIDS

TOPIC: (4.1, 4.3, 4.4, 4.5, 4.6)
Intermolecular Forces (Pg. 81 - 88). Crystal lattice, Crystals and Their Classification (Pg. 95 - 101).
QUESTIONS ON LIQUIDS

Classwork: Q.1 (i, ii, iii, iv), Q.2 (i, ii, iii, iv, v, vi, viii), Q.3 (i, ii, iii, iv, v, vi, ix), Q.4, Q.5, Q.6, Q.7,Q.8.

Homework: Q.12.

QUESTIONS ON SOLIDS

Classwork: Q.1 (ii, iii, iv) Q.2, Q.12(vi, vii, viii, ix, x, xi)

Homework: Q.4, Q.5, Q.6.

CHAPTER NO 5: ATOMIC STRUCTURE

TOPIC: (5.1, 5.2, 5.3, 5.4, 5.5, 5.7, 5.8)

Sub-Atomic Particles of Atoms, Rutherford's Model of Atom (Discovery of Nucleus), Plank's Quantum Theory, Bohr's Model of Atom, Spectrum (Pg. 118- 137).

Wave-Particle Nature of Matter (Dual Nature of Matter), Heisenberg's Uncertainty Prince, (Pg. 138- 146).

Classwork: Q.1 (i, ii, iii, iv, v, vii, vii, viii, ix,), Q.2 (i to viii), Q.3, Q.4, Q.17, Q.19, Q.23, Q.24, Q.25

Homework: Q.5, Q.6, Q.7, Q.8,Q.9, Q.10, Q.11, Q.14, Q.15, Q.16.

CHAPTER NO 6: CHEMICAL BONDING

TOPIC: (6.1, 6.2, 6.3, 6.4)

Chemical Bond, Atomic Sizes, Ionization Energy, Electron Affinity and Electronegativity, Types of Bonds (Pg. 155 -182).

Classwork: Q.1 (i, ii, iii, v, vi), Q.2 (i, ii, iii, iv, v), Q.3 (i, ii, iii, iv, v, vii, viii, ix, x, xi, xii), Q.6, Q.10, Q.18 (ii, vi).

Homework: Q.4, Q.5, Q.7, Q.8, Q.9, Q.11, Q.12.

CHAPTER NO: 7 THERMOCHEMISTRY

TOPIC: (7.2,7.3, 7.4, 7.5)

System, Surrounding And State function, Internal Energy and First Law of Thermodynamics, Enthalpy, Hess's Law of Constant Heat Summation (197- 209).

Classwork: Q.1, Q.2 (i, ii, iii, v), Q.3(ii, iii, iv, v), Q.13, Q.14, Q.15, Q.16, Q.17, Q.18, Q.19, Q.20, Q.21.

Homework: Q.4, Q.5, Q.7, Q.8, Q.9, Q.10, Q.11, Q.12.

CHAPTER NO: 8 CHEMICAL EQIUILIBRIUM

TOPIC: (8.1, 8.2, 8.3, 8.4, 8.5,8.7, 8.8)

Reversible and Irreversible Reactions, Application of Chemical Equilibrium In Industry, Ionic Product of water, Ionization Constants of Acids (Ka), Ionization Constant of Bases (Kb). (Pg. 214-235). Common Ion Effect, Buffer Solutions (Pg. 236- 242).

Classwork: Q.1 (i, ii, iii, v), Q.2, Q.3 (i, ii, iii, iv), Q.10(a, b), Q.11, Q.19, Q.20, Q.21, Q.22, Q.23.

Homework: Q.6, Q.7, Q.8, Q.17.

CHAPTER NO: 9 SOLUTION

TOPIC: (9.3, 9.5, 9.6, 9.7)

Ideal and Non- Ideal Solutions (Pg. 260-262). Solubility and Solubility Curves,

Colligative Properties of Solutions, Energetics of Solution (265-277).
Classwork: Q.1(ii, v, vi, vii, viii, ix, x), Q.2 (ii, iii, iv, v, vi, vii, viii, ix, x), Q.3(iii, iv, v, vi, vii, viii), Q.4, Q.5, Q.12, Q.12, Q.21, Q.22, Q.23.
Homework: Q.7, Q.8, Q.9, Q.10, Q.11, Q.13, Q.14, Q.15, Q.16.

CHAPTER NO: 10 ELECTROCHEMISTRY

TOPIC: (10.1(10.1.1, 10.1.2), 10.2, 10.3, 10.4)
Definition of Electrochemistry, Oxidation State and Balancing of Redox Equations (Oxidation Number or State, Finding Oxidation Number of an Element in a compound or a Radical) (Pg. 284-285), Electrolytic Conduction, Electrode Potential, Electrochemical Series (Pg. 289-300).
Classwork: Q.1, Q.2(i, ii, iii, iv, vi), Q.3 (i, ii, iii, iv, v, vi, vii, viii), Q.4, Q.15, Q.16 (b, d, e, g, h).
Homework: Q.7, Q.8, Q.9, Q.10, Q.11, Q.12, Q.13, Q.14 (a, b).

CHAPTER NO: 11 REACTION KINETICS

TOPIC: 11.1, 11.3, 11.4, 11.5(11.5.6).
Rate of Reaction (308-313), Energy of Activation, Finding of Order of Reaction. (Pg. 316-319). Arrhenius Equation (Pg. 322-324).
Classwork: Q.1, 2, Q.3(i, ii, iv, v), Q.8, Q.19, Q.20, Q.21, Q.22.
Homework: Q.4, Q.5, Q.6, Q.7 (i, iii, iv), Q.9, Q.15.

LIST OF EXPERIMENTS (CHEMISTRY) PART- I

1. Crystallization of benzoic acid from water.
2. To separate a mixture of various inks by paper chromatography.
3. Separation and Identification of lead and cadmium ions in a mixture solution by paper chromatography.
4. Determination of heat of neutralization of NaOH and HCl.
5. Preparation of standard solution of alkalies and acids e.g., NaOH, KOH, Oxalic acid, succinic acids.
6. Preparation of solution of H_2SO_4 of approximate strength and then determination of its exact strength with the help of standard Na_2CO_3 solution.
7. To prepare a standard solution of oxalic acid and standardize a solution of NaOH.
8. To determine the solubility of oxalic acid at room temperature .You are provided with 0.1 M NaOH.
9. Determination of acetic acid in vinegar.
10. The given solution contains 15 g of mixture of NaOH and Na_2SO_4 per dm^3. Calculate the amount of NaOH in 45 grams of the mixture. 0.1 M HCl is given.
11. Determination of free alkali in soap.
12. Determination of Na_2CO_3 in washing soda.
13. Determination of percentage of purity of Na_2CO_3 in the given solution containing
14. 10 g. of impure Na_2CO_3 sample/dm^3. You are provide with 0.1 M HCl solution.

15 28.6 grams of washing soda (Na_2CO_3. xH_2O) have been dissolved/dm^3. Calculate the number of water molecules of crystallization. You are provide with 0.1 M HCl solution.

16 Determination of $NaHCO_3$ in the given sample of baking soda. 0.1M HCl soln. is provided.

17 8.4 gram M HCO_3 are dissolved per dm^3 of solution. Find out At. Wt. of M. 0.05 M H_2SO_4 is given.

18 You are given the solution of $KMnO_4$. Calculate its volume required to prepare 1.0 dm^3 of 0.002M $KMnO_4$ solution.

19 The given soln. 'A' contains 10 grams of a mixture of H_2SO_4 and oxalic acid dissolved/dm^3. Determine the percentage of H_2SO_4 in the mixture. 0.02M $KMnO_4$ is given.

20 Determine the no of molecules of water of crystallization in a given sample of oxalic acid by permanganate titration. The amount of oxalic acid dissolved per dm^3 is 6.3 g.

21 Determination of solubility of oxalic acid at room temperature.

22 To determine the strength of ferrous sulphate solution by titrating it against 0.02M $KMnO_4$.

23 The given solution contains 30 gram of partially oxidized $FeSO_4.7H_2O$ dissolved per dm^3. Determine the %age of oxidation of the given sample.

24 To determine the strength of given ferrous ammonium sulphate (Mohr's salt) by titrating it against standard potassium permanganate solution.

25 The given solution contains 40g. of $FeSO_4(NH_4)_2SO_4.xH_2O$ dissolved per dm^3. Determine the value of x.

26 Determine the solubility of given sample of Mohr's salt at room temperature. You are provided with 0.02M $KMnO_4$.

27 Prepare a standard (M/10) 250 cm^3. Solution of iodine. 0.1 M $Na_2S_2O_3$ is provided.

28 24.8 grams of a sample of alkali thiosulphate ($M_2S_2O_3$) are dissolved in 1 $dm^3$of the given solution. Calculate the atomic weight of the metal by a volumetric method. Given M/10 iodine solution.

29 20 gram of $Na_2S_2O_3$ are dissolved in one dm^3 solution. Find out the %age of sulphur. You are provided with 0.05M iodine solution.

MATHEMATICS-11 (ALGEBRA AND TRIGONOMETRY)

CHAPTER 1: NUMBER SYSTEMS

Classwork: Example 6: (pg.10), Exercise 1.1: Q.1(iii), Q.2(i,vi,x), Q.4(i), Example 1:(pg.15), Exercise 1.2: Q.4(iv), Q.5(i), Q.9,12, Q.14(ii), Q.15(ii), Q.16(i), Example 1: (i)(pg.20), Theorems(iii,iv,vi) (pg.21), Example 2: (pg.24), Example 3: (pg.24 & 25), Exercise 1.3: Q.2(iii), Q.4, Q.5(iii), Q.6(ii), Q.7(i)

Homework: Exercise 1.1: Q.1(iv), Q.2(vii,ix,xi,xii), Q.4(ii), Q.5, Exercise 1.2: Q.4(i,iii), Q.5(iii), Q.8,11, Q.14(i), Q.15(i,iii), Q.16(ii), Example 5: (i)(pg.27), Exercise 1.3: Q.2(ii,iv), Q.5 (ii,iv), Q.6(i)

CHAPTER 2: SETS, FUNCTIONS AND GROUPS

Classwork: Example 4: (pg.33), Exercise 2.1: Q.1(iii), Q.2(i,v), Q.4(viii), Q.8(vi), Q.9(ii), Q.10(i), Exercise 2.2: Q.1(iii), Q.2(i), Q.4(iii,vi), Q.5(ii), Q.6(i), Exercise 2.3: Q.1(i), Q.3, Q.6(ii) Q.7(i), Example 4: (pg.53), Exercise 2.4: Q.1(i), Q.2(iii), Q.3(i,ii), Q.7(i) Q.9(i), Exercise 2.5: Q.1, Exercise 2.6: Q.1(iii) Q.4(ii), Example 5: (pg.65),Example 6: (pg.66), Exercise 2.7: Q.3, Example 2: (pg.71), Solution of Linear Equations(pg.76), Reversal Law of Inverses(pg.77), Exercise 2.8: Q.5

Homework: Exercise 2.1: Q.1(xi), Q.2(vi,ix,xii,xvi), Q.4(i,ii), Q.8(ii), Q.9(iv), Q.10(vi,vii), Exercise 2.2: Q.1(iv,v), Q.2(ii), Q.4(ii,vii),Q.5(iii.iv), Q.6(ii), Exercise 2.3: Q.6(iii), Q.8, Q.7(ii), Exercise 2.4: Q.1(iii), Q.2(ii), Q.3(iv), Q.4(ii,iii), Exercise 2.5: Q.4, Exercise 2.6: Q.1(ii,iv), Q.4(iv,v), Exercise 2.7: Q.4, Example 7: (pg.72), Exercise 2.8: Q.6

CHAPTER 3: MATRICES AND DETERMINANTS

Classwork: Adjoint of a 2×2 Matrix(pg.90), Example 4: (pg.92), Example 5: (pg.94), Exercise 3.1: Q.2, Q.3(i), Q.5,8, Q.12(ii), Exercise 3.2: Q.3(ii), Q.5(i), Q.6(iii), Q.8(ii), Example 2: (pg.104), Example 7: (pg.110), Exercise 3.3: Q.2(iii), Q.3(iii,xi), Q.5(v), Q.8,11, Example 3: (pg.125), Exercise 3.4: Q.6(i), Q.8, Q.10(iii), Example 3: (pg.137), Exercise 3.5: Q.1(i), Q.3(ii)

Homework: Exercise 3.1: Q.3(ii), Q.9, Q.12(i), Exercise 3.2: Q.2(ii), Q.4(iv), Q.7(i), Q.9(ii), Exercise 3.3: Q.1(i), Q.2(i,ii), Q.3(ii,iv), Q.4(ii), Q.5(i,iii), Q.6(i,iii), Q.14(i), Q.16, Exercise 3.4: Q.2(ii), Q.5, Q.10(ii), Q.8,11, Exercise 3.5: Q.1(iii), Q.2(ii), Q.4(ii), Q.5(ii), Q.6

CHAPTER 4: QUADRATIC EQUATIONS

Classwork: Exercise 4.1: Q.3,8,9,19, Example 1: (pg.143), Exercise 4.2: Q.1,5,10,19, Exercise 4.3: Q.2,5,11, Three Cube Roots of Unity(pg.151), Properties of Cube Roots of Unity(ii)(pg.152), Four Fourth Roots of Unity (pg.154), Exercise 4.4: Q.2(iii), Q.3(i), Q.5, Example 2: (pg.157), Example 4: (pg.158), Exercise 4.5: Q.1,7,11, Exercise 4.6: Q.1(vi), Q.3(iv), Q.6, Q.7(v), Example 1: (ii)(pg.165),

Exercise 4.7: Q.1(iv), Q.2(i), Exercise 4.8: Q.1,6,9, Exercise 4.9: Q.2,8, Exercise 4.10: Q.2,5

Homework: Exercise 4.1: Q.2,5,6,10,12,15,17,18, Exercise 4.2: Q.4,11,14,17,18,22,24, Exercise 4.3: Q.4,6,10, Exercise 4.4: Q.2(i,v), Q.4,6,7, Q.8(i,iii), Exercise 4.5: Q.10,12,14,15,16, Exercise 4.6: Q.1(i,ii), Q.2, Q.3(i), Q.7(i,vi), Q.8, Exercise 4.7: Q.1(ii,iii), Q.3(i), Q.5,7, Exercise 4.8: Q.4,7,10, Exercise 4.9: Q.3,5,10, Exercise 4.10: Q.4,6

CHAPTER 5: PARTIAL FRACTIONS

Classwork: Example 1: (pg.180), Exercise 5.1: Q.5, Example 1: (pg.184), Example 2: (pg.184), Exercise 5.2: Q.4,9, Example 1: (pg.186), Exercise 5.3: Q.1,10, Example 1: (pg.188)

Homework: Exercise 5.1: Q. 4,7,10, Exercise 5.2: Q.6,11, Exercise 5.3: Q.3,6,8

CHAPTER 6: SEQUENCES AND SERIES

Classwork: Example 2: (pg.190), Exercise 6.1: Q.1(iii,viii), Q.2(v), Example 3: (pg.193), Example 4: (pg.194), Exercise 6.2: Q.2,6,13, Example 1: (pg.195), Exercise 6.3: Q.1(ii), Q.6, Exercise 6.4: Q.2(ii), Q.6, Exercise 6.6: Q.2, Q.7(ii), Q.8,12, Exercise 6.7: Q.1(ii), Q.2(i), Example 3-6: (pg.213 & 214), Exercise 6.8: Q.1, Q.5(iii), Q.6(ii), Q.13, Example 1: (pg.219), Relations Between Arithmetic, Geometric and Harmonic Means(pg.222), Exercise 6.10: Q.1(ii), Q.6,9,16

Homework: Exercise 6.1: Q.1(ii,v,vi,vii), Q.2(i), Q.3(ii,iv), Exercise 6.2: Q.4,7,8,9,12, Exercise 6.3: Q.3,4,7, Exercise 6.4: Q.2(iii,v), Q.3(i), Q.4(ii), Q.11,14,15,16, Exercise 6.6: Q.1,3,9,14, Exercise 6.7: Q.1(i), Q.2(ii), Q.3(i), Q.4,6, Exercise 6.8: Q.4, Q.5(ii), Q.6(i,iv,) Q.8,9 Q.12(i), Q.14, Exercise 6.10: Q.1(i), Q.2(ii), Q.7,8,12,13, Q.14(i), Q.15(i), Q.17

CHAPTER 7: PERMUTATION, COMBINATION AND PROBABILITY

Classwork: Example 2 & 3: (pg.230), Exercise 7.1: Q.1(vii,x), Q.2(vi,ix), Exercise 7.2: Q.1(v), Q.2(ii), Q.7, Example 3: (pg.238), Exercise 7.3: Q.1(ii), Q.4,12, Complemmentary Combination (pg.240), Example 1-3: (pg.241), Exercise 7.4: Q.1(ii), Q.2(i), Q.9(i), Example 1 & 2: (pg.244 & 245), Exercise 7.5: Q.3(ii), Q.5(i), Q.10(i), Exercise 7.7: Q.3,6, Exercise 7.8: Q.3,8

Homework: Exercise 7.1: Q.1(vi,ix), Q.2(v,viii,x), Exercise 7.2: Q.1(i,iii), Q.2(i,iii), Q.3,4,6,10,11, Exercise 7.3: Q.1(iii), Q.3,11, Exercise 7.4: Q.1(i,iii), Q.2(ii,iii), Q.3(i), Q.4,10, Exercise 7.5: Q.3(i), Q.5(ii), Q.10(ii), Exercise 7.7: Q.2,5, Exercise 7.8: Q.4,9

CHAPTER 8: MATHEMATICAL INDUCTION AND BINOMIAL THEOREM

Classwork: Example 6: (pg.262), Exercise 8.1: Q.2,4,13,20, Example 2: (pg.269), Example 5: (pg.272), Exercise 8.2: Q.1(i), Q.2(ii), Q.7(i), Example 2: (pg.276), Example 4: (pg.278), Exercise 8.3: Q.1(ii,vi,viii), Q.2(vi.ix), Q.4(iv,vi), Q.9

Homework: Exercise 8.1: Q.1,3,5,7,14,24, Exercise 8.2: Q.1(ii,vi), Q.2(i,iii), Q.6(i), Q.9(i), Q.10(i,ii), Exercise 8.3: Q.1(i,iii,iv,v), Q.2(i,iii), Q.3(i,ii), Q.4(i,ii), Q.5,7,11,12,13

CHAPTER 9: FUNDAMENTALS OF TRIGONOMETRY

Classwork: Example 4 & 5: (pg.290), Exercise 9.1: Q.1(vi,xvi), Q.2(viii), Q.5(i), Q.13,

Fundamentals Identities (pg.297), Exercise 9.2: Q.3(iv,v), Q.4(ii), Q.8,
Exercise 9.3: Q.1(ii,iii), Q.2(ii), Q.3(iii), Example 1-4: (pg.3,10&11),
Exercise 9.4: Q.2,4,8,11,14,21

Homework: Exercise 9.1: Q.1(ix,xii,xiii), Q.2(ii,vi,x,xii,xv), Q.3, Q.4(i), Q.5(ii), Q.6(i),
Q.7,11,15, Exercise 9.2: Q.3(i,vi), Q.4(i,v), Q.5,6, Exercise 9.3: Q.1(i,iv), Q.2(i),
Q.3(i,ii), Q.4, Q.5(iv,vii), Q.6(v,ix), Exercise 9.4: Q.5,6,7,9,10,12, 13,15,20

CHAPTER 10: TRIGONOMETRIC IDENTITIES

Classwork: Example 2: (pg.320), Exercise 10.1: Q.1(ii), Q.2(v), Q.3(iii), Q.4(i),
Exercise 10.2: Q.1(iii,vi), Q.3(ii), Q.7(ii), Q.11, Example 1: (pg.330),
Exercise 10.3: Q.1(ii), Q.3,13, Example 2: (pg.334), Example 3 & 5: (pg.335),
Exercise 10.4: Q.1(ii,viii), Q.2(ii), Q.3(iii)

Homework: Exercise 10.1: Q.1(v,vi), Q.2(iii,ix), Q.3(i,ii,iv), Q.5(i,iii,iv),
Exercise 10.2: Q.1(i,vii), Q.2(iv,v), Q.4(i,iii,v), Q.5, Q.7(i), Q.10(i),
Exercise 10.3: Q.1(i), Q.2,6,8,9,11, Exercise 10.4: Q.1(i,iii,iv,v), Q.2(v,vi), Q.3(ii), Q.4

CHAPTER 11: FUNDAMENTALS OF TRIGONOMETRY

Classwork: Exercise 11.1: Q.2,7,9

Homework: Exercise 11.1: Q.3,5,7,10,15

CHAPTER 12: APPLICATION OF TRIGONOMETRY

Classwork: Exercise 12.1: Q.1(i,ix), Q.2(ii), Exercise 12.2: Q.2,5, Exercise 12.3: Q.1,5,
Exercise 12.4: Q.1, Exercise 12.5: Q.1,5,8, Exercise 12.6: Q.1,8, Exercise 12.7: Q.1(ii),
Q.2(ii), Q.3(iii), Q.5, Proof (pg.379), Example 1: (pg.381), Example 3: (pg.383),
Exercise 12.8: Q.1(ii), Q.3(ii), Q.5(ii), Q.6(ii), Q.7(ii), Q.11

Homework: Exercise 12.1: Q.1(iii,v), Q.2(i,vi), Exercise 12.2: Q.3,4,
Exercise 12.3: Q.3,6,9, Exercise 12.4: Q.3,5, Exercise 12.5: Q.3,4,7,10,
Exercise 12.6: Q.2,6,7,10, Exercise 12.7: Q.1(i), Q.2(i), Q.3(i), Q.4,
Exercise 12.8: Q.1(i), Q.3(iii), Q.5(iv), Q.6(i), Q.7(i), Q.12

CHAPTER 13: INVERSE TRIGONOMETRIC FUNCTIONS

Classwork: Example 2: (pg.390), Example 4: (pg.396), Exercise 13.1: Q.1(iii,ix), Q.2(ii),
Q.3(i,v,ix), Exercise 13.2: Q.3,11,14,19

Homework: Exercise 13.1: Q.1(iv,v,vi), Q.2(i,iii), Q.3(iii,iv,vii),
Exercise 13.2: Q.1,2,6,12,17,18

CHAPTER 14: SOLUTIONS OF TRIGONOMETRIC EQUATIONS

Classwork: Example 1-3: (pg.401&402), Example 1,2,4,5: (pg.403,405 & 406), Q.14,
Q.1(i,iii), Q.2(ii,iv), Q.4,6

Homework: Exercise 14: Q.1(ii,iv), Q.2(i,iii), Q.3,5

BIOLOGY-11

Chapter No./ Name / Topics / Exercise Q(s)/ Textbook Pages (s)

CHAPTER 1: INTRODUCTION

Biology and some major fields of specialization, Biological method, Biology and the service of mankind (excluding the subtopics "Disease Control", "Preventive measures", "Vaccination and Immunization", and "Drug Treatment/ Gene therapy") (Pg. 1-13)

Practicals: No practical

Questions:

Classwork: Fill in the blanks(i-iii, ix),True and false(No), Multiple choice questions (i,iv)

Homework: Short questions (i-iv), Extensive questions (i, iv, v)

CHAPTER 2: BIOLOGICAL MOLECULES

Introduction to biochemistry, Importance of water, Carbohydrates (excluding the subtopics "monosaccharides", "oligosaccharides", "polysaccharides"), Lipids (excluding the subtopics "acylglycerols", "waxes", "phospholipids", "terpenoids"), Proteins, Structure of proteins, Nucleic acids (excluding the subtopics "DNA" and "RNA") (Pg. 17-31)

Practicals:

1. Identification of biochemical from biological materials.
2. Iodine test for starch
3. Benedict's test for reducing sugars
4. Millon's test for Proteins/Biuret test for proteins
5. Sudan III test for fats and oils and emulsion test

Questions:

Classwork: Fill in the blanks (i, ii), True and false (i), Multiple choice questions (iv)

Homework: Short questions (ii, iv and v), Extensive questions (i, iii)

CHAPTER 3: ENZYMES

Introduction, Characteristics of enzymes, Mechanism of enzyme action (catalysis), Inhibitors

Irreversible inhibitors, Reversible inhibitors (competitive & non-competitive inhibitors) (Pg. 37-43)

Practicals:

1. Study of starch break down in germinating gram seeds.

Questions:

Classwork: Fill in the blanks (i-v), True and false (i-v), Multiple choice questions (No)

Homework: Short questions (i, iii-v), Extensive questions;(1, 3, 4)

CHAPTER 4: THE CELL

Structure of a generalized cell, Plasma membrane, Cell wall, Cytoplasm, Endoplasmic

reticulum, Ribosomes, Golgi apparatus, Lysosomes, Vacuoles, Cytoskeleton, Centriole, Mitochondria, Plastids (Chloroplasts, Chromoplasts, Leucoplasts), Nucleus (complete topic) Prokaryotic and eukaryotic cell (Pg. 48-64)

Practicals:

1. Study of animal cells (frog's epithelium cell, frog's buccal cavity cells) and plant cells (mesophyll cells, leaf epidermis cells, onion epidermis cells) by staining with safranin, acid fuchsin, methylene blue, eosine

Questions:

Classwork: Fill in the blanks (i-v), True and false (i-v), Multiple choice questions (i-vi)

Homework: Short questions (i-xi), Extensive questions (i, v)

CHAPTER 5: VARIETY OF LIFE

Introduction, Nomenclature, Two to five kingdom classification systems, Viruses (excluding the introductory paragraphs), Characteristics, Structure, Life cycle of bacteriophages, Some viral diseases: small pox, herpes, influenza, mumps and measles, polio, AIDS, Hepatitis (Pg. 67-80)

Practicals: No practical

Questions:

Classwork: Fill in the blanks (i-x), Multiple choice questions (i-xiv)

Homework: No Short question, No extensive question

CHAPTER 6: KINGDOM PROKARYOTAE (MONERA)

Structure of bacteria, Size, Shape of bacteria, Bacterial cell structure (complete topic – page 86 to 89), Nutrition of bacteria, Respiration in bacteria, Growth and Reproduction, Control of bacteria (Physical methods, Chemical methods), Use and misuse of antibiotics, Characteristics of Cyanobacteria (Pg.84-94)

Practicals:

1. Laboratory safety techniques and use of microscope and measurement of microscopic objects by micrometry.
2. Investigation of bacterial content of fresh and stale milk.
3. Study of Nostoc from fresh material and prepared slides.

Questions:

Classwork: Fill in the blanks (i-vi, vii), Multiple choice questions (i-vi)

Homework: Short questions (i a, b, ii-ix), Extensive questions (i-iii, v)

CHAPTER 7: THE KINGDOM PROTISTA (OR PROTOCTISTA)

Introduction, Major groups of Protista, Protozoa: Animal-like protists, Amoebae, Zooflagellates

Ciliates, Algae: Plant-like protists, Euglenoids, Brown algae, Red algae, Green algae, Importance of algae, Fungus-like protists, Slime molds, Water molds (Pg. 99-111)

Practicals:

1. Identification of Chlorella, Paramecium, Amoeba, Entamoeba, Plasmodium (malarial parasite) Euglena, Volvox, Ulothrix and Ulva from fresh materials or prepared slides.

Questions:

Classwork: Fill in the blanks (i, ii, v-viii)

Homework: Short questions (i, iv, v), Extensive questions (i-ix)

CHAPTER 8: FUNGI

Introduction. The body of fungus, Nutrition in fungi, Reproduction, Asexual reproduction, Sexual reproduction, Classification of fungi, Zygomycota, Ascomycota, Basidiomycota, Deuteromycota, Importance of fungi, Ecological importance, Commercial importance, Economic gains due to fungi, Economic losses due to fungi (Pg. 113-128)

Practicals:

1. Study of yeast, Ustilago tritici and Pencillium from fresh materials and slides.

Questions:

Classwork: Multiple choice questions (i-viii)

Homework: Short Questions (i-x), Extensive questions (i-viii)

CHAPTER 9: KINGDOM PLANTAE

Classification of Plantae, Division Bryophyta, Adaptation to land habitat, Division Tracheophyta, Evolution of leaf, Evolution of seed habit, Class Gymnospermae (excluding the subtopic "Pinus – life cycle"), Class Angiospermae, Life cycle of an angiospermic plant, Seed formation, double fertilization, Classification of angiosperms (excluding the topic and subtopics of "Angiospermic families") (Pg. 131-153)

Practicals:

1. Examination of Marchantia and Funaria (external morphology) from fresh material and of sex organs from prepared slides.
2. Study of Pinus: male and female cones from fresh or preserved materials.

Questions:

Classwork: Fill in the blanks (i-ix), Multiple Choice Questions (i-iv)

Homework: Short Questions (ii b, iv, vii), Extensive questions (ii-vi)

CHAPTER 10: KINGDOM ANIMALIA

Introduction, Grade Radiata, Grade Bilateria, Diploblastic and triploblastic organization, Acoelomates, pseudocoelomates, coelomates , Series proterostomia & Series dueterostomia, Phylum Porifera, Phylum Coelenterata (excluding the subtopic "Polymorphism"), Phylum Platyhelminthes (excluding the subtopics "infestation" and "disinfestation"), Adaptation for parasitic mode of life, Aschelminthes (Phylum Nematoda), Phylum Annelida (excluding the subtopics of classes "Polychaeta", "Oligochaeta", and "Hirudinea"), Phylum Arthropoda (excluding the subtopics of classes "Crustacea", "Insecta", "Arachnida", and "Myriapoda"), Metamorphosis, Economic importance of arthropods, Phylum Mollusca (excluding the subtopics of classes "Gastropoda", "Bivalvia" and "Cephalopoda"), Economic importance of Mollusca, Phylum Echinodermata; Echinodermata / Affinities, Phylum Chordata, Sub-phylum Vertebrata , Class Chondrichthyes, Class Osteichthyes (excluding the subtopic

“adaptations for aquatic life, Class Amphibia, Class Reptilia, Class Aves; Characters of Birds, Class Mammalia, Sub-class Prototheria, Sub-class Metatheria, Sub-class Eutheria (Pg. 167-203)

Practicals:

1. Exposure of respiratory system of frog.

Questions:

Classwork: Fill in the blanks (i-x), Multiple choice questions (i, ii, iv, v, vi, vii)

Homework: Extensive questions (i, ii, vii, viii)

CHAPTER 11: BIOENERGETICS

Introduction, Photosynthesis, Photosynthetic reactants and products, Water and photosynthesis, Photosynthetic pigments (Chlorophyll, Carotenoids), Reactions of photosynthesis, Light dependent reactions, Non-cyclic phosphorylation, Cyclic phosphorylation, Chemiosmosis, Light independent (or dark) reactions, Respiration, Anaerobic and aerobic respiration, Anaerobic Respiration (alcoholic fermentation, lactic acid fermentation), Cellular Respiration, Glycolysis, Pyruvic acid oxidation, Krebs cycle, Respiratory chain (Pg. 206-228)

Practicals:

1. Extraction and chromatography of leaf chloroplast pigments.

Questions:

Classwork: Fill in the blanks (i-v), Multiple choice questions (i-iii)

Homework: Extensive questions (i-iii, vii-x, xii-xiii)

CHAPTER 12: NUTRITION

Methods of plant nutrition (saprophytic nutrition, parasitic nutrition, symbiotic nutrition, nutrition in insectivorous plants), Digestion and absorption, Digestion in Man, Digestion in oral cavity, Digestion in stomach, Digestion in small intestine, Absorption of food, Large intestine, Some common diseases related to nutrition (Dyspepsia, Food poisoning, Obesity, Ulcer) (Pg. 235- 256)

Practicals:

1. Study of T.S of liver, stomach, small intestine and large intestine of man prepared slides.

Questions:

Classwork: Fill in the blanks (i-viii), True and false (i-iii), Multiple choice questions (i-iii, vi-vii, ix)

Homework: Short questions (i, iii, iv), Extensive questions (i-iv, ix-xii, xvi-xv)

CHAPTER 13: GASEOUS EXCHANGE

Advantages and disadvantages of gas exchange in air and water, Gaseous exchange in plants, Properties of respiratory surfaces, Respiration in man, Air passage ways, Inspiration, Expiration, Transport of respiratory gases, Transport of oxygen, Transport of carbon dioxide, Carbon dioxide concentration in arterial and venous blood, Respiratory disorders (Cancer, Tuberculosis, Asthma), Role of respiratory pigments, Lung capacities (Pg. 259-275)

Practicals: No practical

Questions:

Classwork: Fill in the blanks (ii-v), True and false (i-ii, v), Multiple choice questions (i, iii-v)

Homework: Short questions (i-v), Extensive questions (i, v-vii)

CHAPTER 14: TRANSPORT

Transport in plants - Uptake and transport of minerals and water, Mineral absorption by roots, Processes involved in absorption by roots, Uptake of water by roots, Apoplast pathway, Symplast pathway, Vacuolar pathway, Ascent of sap, Cohesion tension theory, Mechanism of transpiration pull in cohesion and tension theory, Root pressure, Imbibition, Bleeding, Opening and closing of stomata, Mechanism of phloem translocation/transport, Diffusion, Pressure flow theory, Circulatory system, Characteristics of circulatory system, Open and closed circulatory system, Comparison of open and closed circulatory system, Transport in man, The circulatory fluid - the blood, Functions of blood, Disorders (blood cancer, thalassaemia), Pumping organ - The heart, Structure and action, The cardiac cycle, Mechanism of heart Excitation and Contraction Electrocardiogram, Artificial pace-maker, Blue babies, Blood vessels, Arteries, Capillaries, Veins, Blood pressure and rate blood flow, Hypertension, Thrombus formation and hypertension, Heart attack, Stroke, Hemorrhage, Lymphatic system, Immunity, Types of immunity (Pg. 278-327)

Practicals:

1. Demonstration of osmosis in living plant cells, (manifested by plasmolysis and deplasmolysis) of onion cells or spirogyra.
2. Study from prepared slides of internal structure of monocot. and dicot. root, stem and leaf.
3. Investigation of stomatal distribution (using clear nail varnish or epidermis peel)
4. Study of prepared, stained slide of human blood including identification of phagocytes and lymphocytes and preparation of slide of blood smear of frog.
5. Study of structure of artery, vein, capillary from their T.S. (Prepared Slides).
6. Study of effect of acetylcholine and adrenaline on the heartbeat of frog.
7. Exposure of blood circulatory system of frog (heart and main blood vessels).
8. Measurement of blood pressure during rest and alter exercise with B.P apparatus.

Questions:

Classwork: Fill in the blanks (i-vi), Multiple choice questions (i-ix), True and false (i-v)

Homework: Extensive questions (i-v, vii, ix)

COMPUTER SCIENCE-11

UNIT 1: BASICS OF INFORMATION TECHNOLOGY

Overview (Pg.1,2), Hardware and Software (Pg. 2-4), System Software VS Application Software (Pg. 15-16), Basic Units of Data Storage (Pg. 16-17), Word (Pg. 17-18), System Development (Pg. 18-22)

Classwork: Q.1 (i, ii, iii, vii) (Pg.22), Q.4, 13 (Pg.24)

Homework: Q.5, 15 (Pg. 24)

UNIT 2: INFORMATION NETWORKS

Overview (Pg. 25), Workgroup Computing (Pg. 25-26), Internet (Pg.27-29), Components of network (Pg. 29-31), LAN vs WAN (Pg. 32-33), Network Standards (Pg. 35), Network Topologies (Pg. 35- 38), Open System Interconnection (OSI) Model (Pg. 37-38)

Classwork: Q.1 (i, iii- x), Q.2(i- viii) (Pg. 39), Q.3(ii-vi, viii-x) (Pg. 40), Q.4,5,8 (Pg.40)

Homework: Q.6, 11 (Pg. 40)

UNIT 3: DATA COMMUNICATIONS

Overview (Pg. 41), Components of Data Communication (Pg.42), Signals (Pg.42-43), Types of Data (Pg. 43), Types of Data Transmission (Pg. 46 -53)

Classwork: Q.1 (i- iv, vii, xi-x) (Pg. 56), Q.2(i, ii, v) (Pg. 55-56), Q.3(iii, v-vii) (Pg. 56), Q.4, 6, 9 (Pg. 56)

Homework: Q.7, 10 (Pg. 56)

UNIT 4: APPLICATIONS AND USES OF COMPUTER

Overview (Pg. 57), Uses of Computers in different Fields (Business, E-Commerce, Computer Added Design, Simulations only) (Pg. 57-67)

Class Work: Q.5, 6 (Pg. 70)

Home Work: Q.10 (Pg. 70)

UNIT 5: COMPUTER ARCHITECTURE

Overview (Pg.71-76), Bus Interconnection (Pg.76-78), The I/O Unit (Pg.78-81), Instruction Format (Pg. 82-84), Operating Systems (Pg. 85-86), The Translators and Their Functions (Pg. 87)

Classwork: Q.1, 2, 3(Pg. 88-89), Q.4, 5, 7, 10, 11 (Pg. 90)

Homework: Q.6, 8, 9, 14 (Pg. 90)

UNIT 6: SECURITY, COPYRIGHT AND LAW

Overview (Pg.91), Virus and Antivirus issues (Pg. 91-94), Data Security (Pg. 94-97)

Classwork: Q.1 (i- vi) (Pg. 100), Q.2 (Pg. 100-101), Q.3(i- iv, vi- viii) (Pg. 101-102), Q.4, 5, 6 (Pg.102)

Homework: Q.9, 10, 11 (Pg. 102)

UNIT 7: WINDOWS OPERATING SYSTEM

Overview (Pg.103), Types of Operating System (Pg. 103-105), Starting to use Windows Operating System (Objects of Windows Operating system, Features of Windows only)

(Pg. 105-107, 108- 109), Disk Management (Pg.109-110)
Classwork: Q.1(i-vi, viii, x) (Pg.113), Q.2(Pg.113), Q.3(i, ii, v, viii -x) (Pg.114), Q.4,6,8(Pg.114)
Homework: Q.5, 9, 10 (Pg. 114)

UNIT 8: WORD PROCESSING

Overview (Pg. 115), What is Word Processor? (Pg. 115- 116), A Simple Word Processor (Pg. 116), Full Featured Word Processor (Pg.116-118)
Classwork: Q.2(i, ii,) (Pg. 131), Q.5 (Pg. 132)
Homework: Q.6 (Pg. 132)

UNIT 9: SPREADSHEET SOFTWARE

Overview (Pg. 133), Features of Spreadsheet Software (Pg. 133), Basics of Worksheet (Pg.135- 137), Working with Formulas (Pg. 137-138), Functions (Pg.138-139), Introducing Charts (Pg. 142-143)
Classwork: Q.1 (i- vi, viii-x) (Pg. 144-145), Q.2(Pg. 145), Q.3(i- iv, vi-x) (Pg. 145), Q.4, 5 (Pg.146)
Homework: Q.8, 9 (Pg. 146)

UNIT 10: FUNDAMENTAL OF THE INTERNET

Overview (Pg.147), Addressing Schemes (Pg.148-149), Web Browsing (URL (Uniform Resource Locator) only) (Pg. 149,150), Email (Email Address only) (Pg. 152), Newsgroups (Pg. 152)
Class Work: Q.1 (iii, viii, ix) (Pg. 153),Q. 2 (Pg. 153), Q.3(i, iii, vi, vii, ix, x) (Pg. 154)
Home Work: Q.6 (Pg. 154)

LIST OF PRACTICALS GRADE XI:

MS-EXCEL

1. Inserting & Deleting Cells, Rows and Columns
2. Managing Worksheets
3. Use Formulas and Functions (formatting numbers, decimal places, column & rows setup etc).
4. Draw different types of charts
5. Use shortcuts

INTERNET EXPLORER

6. Send/ receive email to single user, multiple users.
7. Browsing Internet
8. Use of Shortcuts

Note:

Objective and subjective type papers should be given from the retained topics and exercise questions.