 

**WEEKLY SYLLABI BREAKDOWN**

**Academic Session: 2019-20**

**Classes HSSC – I**

**Fazaia Teachers’ Training Institute**

**PAF Complex, E-9, Islamabad**

**April, 2019**

**C O N T E N T S**

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| Class | Serial No. | **Subject** |  |
| XI | 1 | English |  |
| 2 | Urdu |  |
| 3 | Mathematics |  |
| 4 | Physics |  |
| 5 | Chemistry |  |
| 6 | Biology |  |
| 7 | Computer Science |  |
| 8 | Islamiat |  |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**ENGLISH : Class-XI**

**Khyber Pakhtunkhwa Textbook Board Peshawar Class XI**

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  (Page11) **Unit-1:First Attempts and Challenges**  (Pages 12-25) **Unit-1.1:His First Flight** (Reading Comprehension, New Vocabulary, Study Questions, Grammar Note and Exercises)  Grammar: parts of speech ,Noun, Pronoun | ***Orientation Ceremony*** |
| **2** | (Pages 26-32) **Unit 1.2:First Year at Harrow** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Adjectives, Adverbs | ***Discussion on Eid-ul-Azha*** |
| **3** | (Pages 33-38) **Unit 1.3:September, the First Day Of School** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Adjectives, Adverbs | ***Celebration of Independence Day*** |
| **4** | (Pages 39-44) **Unit 2:Environment Nature**  Unit 2.1 **It’s Country for Me** (Reading Comprehension ) | ***Practice of Fazaian Honour Code -1*** |
| **5** | (Pages 44-53) **Unit 2.1(contd.):** New Vocabulary and Exercises | **Elections of Students’ Council (Extended Break Time on Election day)** |
| **6** | (Pages 54-59) **Unit 2.2:Our Environment**(Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Composition: Letter Writing | ***Defence Day Celebration*** |
| **7** | (Pages 60-64) **Unit 2.3: Tears Of Nature** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  (Page 65) **Unit 3: Changing Attitudes**  Grammar: Infinitive, Gerund and Participle | ***Importance of Ashora-e-Moharram*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **8** | (Pages 66-71) **Unit 3.1:The Blanket** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Correct Use of Verb | ***Practice of Fazaian Honour Code -2*** |
| **9** | (Pages 72-78) **Unit 3.2:The Way it Was and Is** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Direct and Indirect Object, Change of Narration |  |
| **10** | (Pages 79-84) **Unit 3.3:The Most Beautiful Flower**(Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Kinds of Conjunction, Kinds of Preposition | ***World Teacher’s Day*** |
| **11** | (Page163)**Unit 8:True Friendship(One Act Play )**  (Pages 164-170) **Damon and Pythias**(Reading Comprehension)  Dialogue Writing | ***Practice of Fazaian Honour Code -3*** |
| **12** | ( Pages 170-182) **Damon and Pythias** (**Contd):** (One Act Play ) Reading, Explanation, Exercises and Reading Drama/Plays  Translation: Urdu to English |  |
| **13** | **MID-YEAR REVIEW** |  |
| **14** |
| **15** | (Page 85) **Unit 4:Acquiring Values** (Introduction )  (Pages 86-95) **Unit 4.1:The Scholarship Jacket** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar : Interjection, Correct Use of Verbs | **Celebration of Iqbal*’s* Day** |
| **16** | (Pages 96-100) **Unit 4.2:A Long Walk Home**(Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Composition: Paragraph Writing | ***Practice of Fazaian Honour Code -4*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | | |
| **17** | (Pages 101-106) **Unit 4.3:Be the Best of Whatever You Are**(Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Kinds of Sentences, Phrasal Verbs (A – F) | ***Importance of Rabi-ul-Awal*** | | |
| **18** | **Revision** | ***Practice of Fazaian Honour Code -5*** | |
| **19** | **SEND-UP EXAMINATION (HSSC)** | | |
| **20** |
| **21** | (Page107) **Unit -5: The Lighter Side**  (Pages 108-116) **Unit 5.1:Fly Away**(Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Phrasal Verbs (G-J), Pair of Words | | **National Resolve Day to Promote Education** | |
| **22** | (Pages 117-123) **Unit 5.2:The Man Who Was A Hospital**(Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Change of Voice | | **Celebration of Quaid’s Day** | |
| **23** | (Pages 124-129) **Unit 5.4:When I’m an Old Lady** (Reading Comprehension, New Vocabulary, Study Questions and Exercises)  Grammar: Phrasal Verbs (K-L), Pair of Words | | ***Practice of Fazaian Honour Code -6*** | |
| **24** | (Page 130) **Unit 6 :Learning to Communicate**  (Pages 131-135) **Unit 6.1: Finding a Job** (Reading Comprehension, Study Questions and Exercises)  (Pages 136-140) **Unit 6.2:A Stressful Job** (Reading Comprehension, Study Questions and Exercises)  Grammar: Punctuation, Translation, Correction of Incorrect Sentences, Phrasal Verbs (M-P) | | ***Practice of Fazaian Honour Code -7*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | | |
| **25** | (Pages 141-155) **Unit 6.3:Writing Letters**(Advertisements and Job Applications, CV and Resume Job Application or Cover Letter, Rules for Writing Formal Letters in English, Abbreviations used in Letter Writing)  Grammar: Clauses and Phrases, Phrasal Verbs (Q-T) | | ***Practice of Fazaian Honour Code -8*** |
| **26** | (Page 156) **Unit 7 : Visiting the Dentist**  (Pages 157-162) **Unit 7.1:Making an appointment**  **Unit 7.2:At the Dental Reception**  **Unit 7.3:Dental Check-up**  **Unit 7.4:Dental Hygiene**  (Reading Comprehension and Exercises)  Grammar: Change of Narration, Phrasal Verbs (U-Z) | | ***Practice of Fazaian Honour Code -9*** |
| **27** | **Revision of Damon and Pythias(One Act Play ) and all parts of speech** | | ***Kashmir Day*** |
| **28** | **Revision** | | ***Practice of Fazaian Honour Code -10*** |
| **29- 30** | **PRE BOARD EXAM : HSSC** | |  |
| **31** | **Revision and Test** | | ***Parent - Teacher Meeting and Appraisal of Pre-Board results*** | |
| **32** | **Revision and Test** | |  | |
| **33** | **Revision and Test from Chapter No 1, 2, 3, 4** | |  |
| **34** | **Revision and Test from Chapter No 5, 6, 7, 8** | |  |
| **35** | **Revision and Test from Chapter No 9, 10, 11, 12** | |  |
| **36** | **FBISE Past Papers (Last five years) Solution** | |  |
| **37** | **PREP LEAVES** | | ***Farewell Party*** |
| **ANNUAL FBISE EXAM** | | | |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

مضمون : اُردو

جماعت :گیارہویں اردو لازمی )خیبر پختونخوا ٹیکسٹ بک بورڈ (

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  حصہ نثر: اپنی مدد آپ، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | ***Orientation Ceremony*** |
| **2** | حصہ نثر:جھوٹے آدمی، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم: حمد، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد:مرکب مصادر کو بطور معاون افعال استعمال کرنا | ***Discussion on Eid-ul-Azha***  **Read Surat “Al-Rehman” from the Holy Quran and write down any five attributes of Allah.** |
| **3** | حصہ نثر:نظریہ پاکستان، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم: نعت، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: اصناف سخن کی تعریف اور پہچان | ***Celebration of Independence Day***  **Arrange Na’at competition in the class** |
| **4** | حصہ نثر:پاکستانی قومیت کا مسئلہ، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ غزل:فقیرانہ آئے صدا کر چلے، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: متعلق فعل کی تعریف و استعمال سے آگاہی | Group discussion on  پاکستانی قومیت کا مسئلہ  ***Practice of Fazaian Honour Code -1*** |
| **5** | حصہ نثر:کچھ ادب کے بارے میں، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم: شہر آشوب، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد:علم بیان، بدیع اور صنعتوں کی تعریف | **Elections of Students’ Council (Extended Break Time on Election day)** |
| **6** | حصہ نثر:لمحہ ء فکریہ، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم: شہزادے کا چھت پر سونا اور۔۔۔۔۔ (مثنوی) ، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: خط **(تخلیقی لکھائی)** | ***Defence Day Celebration*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **7** | حصہ نثر:داروغہ جی کی پانچوں گھی میں اور سرکڑاہی میں، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: اشتقاق، مشتقات ، و صفی اور لغوی معنی، مجازی معنی، سلینگ ، بول چال اور اصطلاحی معنوں کے حوالے سے لغت کا استعمال | **Importance of Ashora-e-Moharram** |
| **8** | حصہ نثر:آنگن، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: تلخیص**(تخلیقی لکھائی)** | ***Practice of Fazaian Honour Code -2*** |
| **9** | حصہ نظم: دُرِ مراد (مرثیہ)، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ غزل:پیری میں کیا جوانی کے موسم کو روئیے، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | **.** |
| **10** | حصہ نظم: تختِ فرس پہ علیؒ اکبر کا خطاب (مرثیہ) ، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد : درخواست**(تخلیقی لکھائی)** | **World Teacher’s Day** |
| **11** | حصہ نثر:خوب صورت بلا، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم:ا ُمید (مسدس)، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | ***Practice of Fazaian Honour Code -3*** |
| **12** | حصہ نظم: نصیحت اخلاقی، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد :روداد**(تخلیقی لکھائی)**،(دہرائی) مرکب مصادر کو بطور معاون افعال استعمال کرنا | **Lecture on Personal Hygiene** |
| **13** | **MID-YEAR REVIEW** |  |
| **14** |
| **15** | حصہ غزل:قتل عاشق کسی معشوق سے کچھ دور نہ تھا، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: (دہرائی)اصناف سخن کی تعریف اور پہچان | **Celebration of Iqbal Day** |
| **16** | حصہ نثر:تعلیمِ بالغاں، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم: جلوۀسحر، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: )دہرائی(متعلق فعل کی تعریف و استعمال سے آگاہی | **Peer Coaching**  **Speech competition: Arrange a speech competition in the topic “Importance of** تعلیمِ بالغاں **in Pakistan.** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **17** | حصہ غزل: ناگہ چمن میں جب وہ گل اندام آگیا، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد:مکالمہ**(تخلیقی لکھائی)**،علم بیان، بدیع اور صنعتوں کی تعریف)دہرائی( | **Importance of Rabi-ul-Awal**  ***Practice of Fazaian Honour Code -4*** |
| **18** | **Revision** | **Lecture on First Aid/Fire Fighting**  ***Practice of Fazaian Honour Code 54*** |
| **19** | **SEND-UP EXAMINATION (HSSC)** |  |
| **20** |
| **21** | حصہ نثر:شیراز اور کنار آب رکنا با دوغیرہ، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  قواعد: مکالمہ**(تخلیقی لکھائی)** | **National Resolve Day to Promote Education**  ***Practice of Fazaian Honour Code -6*** |
| **22** | حصہ نثر:روم۔ زندہ شہراور مردہ شہر، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم:پرانا کوٹ، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | **Celebration of Quaid’s day**  **Project: Write down your own “Travelogue” about the place you visited.** |
| **23** | حصہ نثر:لالچی وزیر (ترجمہ)، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ نظم:یہ سڑکیں، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | **Parent - Teacher Meeting and Appraisal of Send Up Results** |
| **24** | حصہ نثر:مکاتیب (ا) مرزا غالب، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  (ب) علامہ اقبالؒ، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | ***Practice of Fazaian Honour Code 7*** |
| **25** | حصہ غزل:دائم پڑا ہو اترے در پر نہیں ہوں میں، مشقی سوالات (MCQs) مختصر سوالات و جوابات)حصہ غزل:ہزاروں خواہشیں ایسی کہ ہر خواہش پہ دم نکلے، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | ***Practice of Fazaian Honour Code -8*** |
| **26** | حصہ نظم:قطعات ، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ قواعد:روداد**(تخلیقی لکھائی)**،صنائع بدائع کے لحاظ سے غلط فقرات کی درستی | **Building Confidence by Discussion**  ***Practice of Fazaian Honour Code -9*** |
| **27** | حصہ نظم:اخلاص، مشقی سوالات (MCQs) مختصر سوالات و جوابات)  حصہ غزل: آئینہ اپنی نظر سے نہ جدا ہونے دو، مشقی سوالات (MCQs) مختصر سوالات و جوابات) | **Kashmir Day** |
| **28** | **Revision** | ***Practice of Fazaian Honour Code 10*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | |
| **29** | **PRE BOARD EXAM : HSSC ( I & II )** |  |
| **30** |
| **31** | **سبق نمبر۱۔۴ ،نظم نمبر ۱۔۳ ، غزل نمبر۱۔۲، اور گرائمر: صنائع بدائع کے لحاظ سے غلط فقرات کی درستی،**  **مرکب مصادر کو بطور معاون افعال استعمال کرنا، تلخیص کی دہرائی اور ٹیسٹ** | **Parent - Teacher Meeting and Appraisal of Pre-Board results** |
| **32** | **سبق نمبر۵۔۸ ، نظم نمبر ۴۔۶ ،غزل نمبر۳۔۴ اور گرائمر** روداد، مکالمہ،متعلق فعل کی تعریف و استعمال سے آگاہی**کی دہرائی اور ٹیسٹ** |  |
| **33** | **سبق نمبر۹۔۱۲، نظم نمبر ۷۔۹ ،غزل نمبر ۵۔۶ اور گرائمر: ، خط ،درخواست ، علم بیان، بدیع اور صنعتوں کی تعریفکی دہرائی اور ٹیسٹ** |  |
| **34** | **سبق نمبر۱۳۔۱۵، نظم نمبر ۱۰۔۱۳ ، غزل نمبر ۷، اور گرائمر: اشتقاق، مشتقات ، و صفی اور لغوی معنی، مجازی معنی، سلینگ ، بول چال اور اصطلاحی معنوں کے حوالے سے لغت کا استعمال ، اصناف سخن کی تعریف اور پہچانکی دہرائی اور ٹیسٹ** |  |
| **35** | **FBISE Past Papers (Last five years) Solution** |  | | |
| **36** | **FBISE Past Papers (Last five years) Solution** |  | | |
| **37** | **PREP LEAVES** | ***Farewell Party*** | | |
| **ANNUAL FBISE EXAM** | | | | |

نوٹ برائےاساتذہ:

**طلبہ کی لسانی مہارتوں میں پختگی پیدا کرنے، اظہار و ابلاغ کی صلاحیت کی نشوونما اور تخلیقی اور انفرادی اسلوب بیان اپنانے کے لیےاساتذہمکالمہ، گروہی بحث، بچوں کی عدالت ، انٹرویو لینا، قلمی دوستی، تمثیل اور ڈراما، تحریری مقابلے (کہانی، لطیفہ، معما، تمثیلیہ ، مکالمہ، انشائیہ، مزاحیہ خاکے، مضمون نونسی ، خوش خطی) ، جماعت میں مذاکرے، گفتگو، تقریر یا مختلف مضامین کے درمیان اردو کے تعلق سے تقاریب،علمی البم (تصاویر، تاشے، کارٹون، معلومات وغیرہ جمع کرنا)، حروف تہجی کے اعتبار سے الفاظ ترتیب دینا، لغت سے الفاظ کے معنی تلاش کرنا، معلومات عامہ کے مقابلے، اہم قومی تہواروں پر تقاریر کا اہتمام، نظم کی نقل نویسی، نئے الفاظ کی لغت خود تیار کرنا، نظم خوانی کا مقابلہ ، اپنی تخلیقات پیش کرنا ، اصلاح لینا وغیرہ کا بھرپوراہتما مکریں۔جن درس گاہوں میں رسالہ شائع ہونے کی روایت موجود ہے وہاں طلبہ کی بھرپور شرکت کی حوصلہ افزا ئی کی جائے۔**

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**Mathematics: XI**

**A Text Book of Mathematics (Algebra and Trigonometry)**

**Punjab Curriculum and Textbook Board, Lahore Class XI**

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  **(Pages 01-28) Chapter 1 : Number Systems** Introduction, Rational and Irrational Numbers, Representation in Decimal, Properties of Real Numbers, **Exercise 1.1 ,** omplex Numbers, Properties of Complex Numbers, **Exercise 1.2, T**he Real Line, Geometrical Representation of Complex Numbers, The Complex Plane, Polar Form of a Complex Number, To find the Real and Imaginary Parts of a Complex Number, **Exercise 1.3** | ***Orientation Ceremony*** |
| **2** | **(Pages 29-54) Chapter 2 : Sets, Functions and Groups** Introduction, **Exercise 2.1,** Operations on Sets, Venn-Diagrams, **Exercise 2.2,** Operations on Three Sets, Properties of Union and Intersection, **Exercise 2.3,**Inductive and Deductive Logic, Implication or Conditional, Bi-Conditional, **Exercise 2.4** | ***Discussion on Eid-ul-Azha*** |
| **3** | **(Pages 55-79) Chapter 2 (Contd):**Truth Sets, A Link between Set Theory and Logic**, Exercise 2.5** Relations, Functions, Linear and Quadratic Functions, Inverse of a Function, **Exercise 2.6,** Binary Operations, Properties of Binary Operations, **Exercise 2.7,** Groups, Solution of Linear Equations, Reversal Law of Inverses, **Exercises 2.8** | ***Celebration of Independence day*** |
| **4** | **(Pages 80-114) Chapter 3: Matrices and Determinants** Introduction, Addition of Matrices, Scalar Multiplication, Subtraction of Matrices, Multiplication of two Matrices, Determinant of a 2x2 Matrix ,Singular and Non-singular Matrices, Solution of Simultaneous Linear Equations by using Matrices **Exercise 3.1,** Field, Properties of Matrices**, Exercise 3.2,**Determinants, Properties of Determinants, Adjoint and Inverse of a Square Matrix of Order n > 3, **Exercise 3.3** | ***Practice of Fazaian Honour Code -1*** |
| **5** | **(Pages 115-138) Chapter 3 (Contd):** Elementary Row and Column Operations on a Matrix, Echelon and Reduced Echelon Forms of Matrices, Rank of a Matrix, **Exercise 3.4,** System of Linear Equations, Homogeneous Linear Equations, Non-Homogeneous Linear Equations, Cramer’s Rule **Exercise 3.5** | ***Elections of Students’ Council***  *(Extended Break Time on Election day)* |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | |
| **6** | **(Pages 139-164) Chapter 4 : Quadratic Equations** Introduction, Solution of Quadratic Equations, **Exercise 4.1,** Solution of Equations Reducible to Quadratic Equation, **Exercise 4.2, Exercise 4.3,** Three Cube Roots of Unity, Four Fourth Roots of Unity, **Exercise 4.4,** Polynomial Functions, Theorems, Synthetic Division, **Exercise 4.5,** Relations between the Roots and the Coefficients of a Quadratic Equation, Formation of an Equation Whose Roots are Given, **Exercise 4.6** | ***Defence Day Celebration*** | |
| **7** | **(Pages 165-177) Chapter 4 (Contd) :** Nature of the Roots of a Quadratic Equation, **Exercise 4.7,** System of Two Equations Involving Two Variables, **Exercise 4.8,Exercise 4.9**  Problems on Quadratic Equations, **Exercise 4.10** | ***Importance of Ashora-e-Moharram*** | |
| **8** | **(Pages 178-188) Chapter 5: Partial Fractions** Introduction, Rational Fraction, Resolution of a Rational Fraction into Partial Fractions, **Exercise 5.1, 5.2, 5.3 & 5.4** | ***Practice of Fazaian Honour Code -2*** | |
| **9** | **(Pages 189-203) Chapter 6 : Sequences and Series** Introduction, Types of Sequences, **Exercise 6.1,** Arithmetic Progression, **Exercise 6.2,** Arithmetic Mean, **Exercise 6.3,** Series, **Exercise 6.4,** Word Problems on A.P**., Exercise 6.5** | ***Practice of Fazaian Honour Code -3*** | |
| **10** | **(Pages 203-218) Chapter 6 (Contd):** Geometric Progression, **Exercise 6.6,** Geometric Means, **Exercise 6.7,**Sum of n-terms of a Geometric Series, The Infinite Geometric Series, **Exercise 6.8,**Word Problems on G.P, **Exercise 6.9** | ***World Teacher’s Day*** | |
| **11** | **(Pages 218-229) Chapter 6 (Contd):** Harmonic Progression, Relations between Arithmetic, Geometric and Harmonic Means, **Exercise 6.10,** Sigma Notation (or Summation Notation), To find the Formulae for the Sums, **Exercise 6.11**  **(Pages 230-236) Chapter 7**: **Permutation, Combination & Probability**  Introduction **Exercise7.1,** Permutation **Exercise 7.2** | ***Practice of Fazaian Honour Code -4*** | |
| **12** | **(Pages 236-251) Chapter 7 (Contd):** Permutation of Things Not All Different, Circular Permutation, **Exercise 7.3**Combinations, **Exercise 7.4** Probability, **Exercise 7.5,** Estimating Probability and Tally Marks, **Exercise 7.6,** Addition of Probabilities, **Exercise 7.7** | ***Practice of Fazaian Honour Code -5*** | |
| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | |
| **13-14** | **MID-YEAR REVIEW** |  | |
| **15** | **(Pages 252-255) Chapter 7 (Contd):** Multiplication of Probabilities ,**Exercise 7.8**  **(Pages 256-265) Chapter 8: Mathematical Induction and Binomial Theorem,** Introduction, Principle of Mathematical Induction, Principle of Extended Mathematical Induction, **Exercise 8.1** | **Celebration of Iqbal Day** | |
| **16** | **(Pages 265-284) Chapter 8 (Contd) :** Binomial Theorem, **Exercise 8.2** Binomial Theorem when the Index is a Negative Integer or a Fraction, Application of the Binomial Theorem, **Exercise 8.3** | ***Practice of Fazaian Honour Code -6*** | |
| **17** | **(Pages 285-309**) **Chapter 9: Fundamentals of Trigonometry.**  Introduction, Units of Measures of Angles, Relation between the Length of an Arc of a Circle and the Circular Measure of its Central Angle, **Exercise 9.1,** General Angle, Angle in the Standard Position, Trigonometric Functions of any Angle, Fundamental Identities, Signs of the Trigonometric Functions, **Exercise 9.2,** The Values of Trigonometric Functions of Acute Angles 45o , 30o and 60o, The Values of Trigonometric Functions of Angles 0o, 90o,180o, 270o,360o, **Exercise 9.3** | ***Importance of Rabi-ul-Awal*** | |
| **18** | **Revision** | ***Practice of Fazaian Honour Code -7*** | |
| **19- 20** | **SEND-UP EXAMINATION (HSSC-I)** | |  |
| **21** | **(Pages 309-312**) **Chapter 9 (Contd):** Domains of Trigonometric Functions and of Fundamental Identities, **Exercise 9.4**  **(Pages 313-333**) **Chapter 10**: **Trigonometric Identities:** Introduction, Deductions from Fundamental Law, Trigonometric Ratios of Allied Angles, **Exercise10.1,**Further Application of Basic Identities, **Exercise10.2,** Double Angle Identities, Half Angle Identities, Triple Angle Identities, **Exercise 10.3** | ***National Resolve Day to Promote Education*** | |
| **22** | **(Pages 333-336**) **Chapter 10 (Contd):**Sum, Difference and Product of Sines and Cosines, **Exercise 10.4**  **(Pages 337-351**) **Chapter 11: Trigonometric Functions and their Graphs**. Introduction, Period of Trigonometric Functions, **Exercise 11.1,** Values of Trigonometric Functions, Graphs of Trigonometric Functions, Graphs of y=Sin*x* from -2 to 2, y=Cos*x* from -2 to 2, y=Tan*x* from - to , y=Cot*x* from -2 to , y=Sec*x* from -2 to 2, y=Cosec*x* from -2 to 2, **Exercise 11.2** | ***Celebration of Quaid’s Day*** | |
| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | |
| **23** | **(Pages 352-360) Chapter 12: Application of Trigonometry.**  Introduction, Tables of Trigonometric Ratios, **Exercise 12.1**  Solution of Right Triangles, **Exercise 12.2,** Height & Distances, Angles of Elevation and Depression, Engineering and Heights and Distances, **Exercise 12.3** | ***Practice of Fazaian Honour Code -8*** | |
| **24** | **(Pages 361-373) Chapter 12 (Contd):** Oblique Triangles, The Law of Sines, Cosines and Tangents, Half Angle Formulas, Solution of Oblique Triangles, **Exercise 12.4, 12.5,12.6** | ***Practice of Fazaian Honour Code -9*** | |
| **25** | **(Pages 373-386) Chapter 12 (Contd):** Area of Triangle, **Exercise 12.7,** Circles Connected with Triangle, Engineering and Circles connected with triangles, **Exercise 12.8** | ***Practice of Fazaian Honour Code -10*** | |
| **26** | **(Pages 387-400)Chapter 13:Inverse Trigonometric Functions**  Introduction, Inverse Sine Function, The Inverse Cosine Function, Inverse Tangent Function, Inverse Cotangent, Secant and Cosecant Functions, Domains and Ranges of Principal Trigonometric Functions and Inverse Trigonometric Functions, **Exercise 13.1,** Addition and Subtraction Formulae**, Exercise 13.2** | ***Building confidence by discussion*** | |
| **27** | **(Pages 401-407) Chapter 14:Solutions of Trigonometric Equations,** Introduction, Solution of General Trigonometric Equations, **Exercise 14** | ***Kashmir Day*** | |
| **28** | **Revision** | |  |
| **29-30** | **PRE BOARD EXAMINATION (HSSC-I)** | |  |
| **31** | **Revision and Test from Chapter No 1, 2,3** | ***Parent - Teacher Meeting and Appraisal of Pre-Board results*** | |
| **32** | **Revision and Test from Chapter No 4, 5, 6** |  | |
| **33** | **Revision and Test from Chapter No 7, 8, 9** |  | |
| **34** | **Revision and Test from Chapter No 10, 11, 12** |  | |
| **35** | **Revision and Test from Chapter No 13, 14** |  | |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **36** | **FBISE Past Papers (Last Five Years) Solution** | ***Farewell party*** |
| **37** | **PREP LEAVES** |  |
| **ANNUAL FBISE EXAM** | | |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**PHYSICS: Class-XI**

**Khyber Pakhtunkhwa Textbook Board, Peshawar Class XI**

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  (Pages 1-10) **CHAPTER 1: MEASUREMENTS:** Physical Quantities, International System of Units, Scientific Notations, Errors and Uncertainties, Rounding off numbers | ***Orientation Ceremony*** |
| **2** | (Pages 11-24) **Chapter 1 (contd):** Precision and Accuracy, Indicating uncertainty, Dimensions, Exercise, Comprehensive Questions and Numerical Problems*.* | ***Discussion on Eid-ul-Azha*** |
| **3** | (Pages 25-37) **CHAPTER 2:VECTORS AND EQUILIBRIUM:** Vectors, Cartesian coordinate system or Rectangular coordinate system, Addition of Vectors, Multiplication of a vector by a number or scalar, Resolution of a vector, Addition of vectors by rectangular components. | ***Celebration of Independence Day*** |
| **4** | (Pages 37-51) **Chapter 2 (contd):** Product of Vectors, Torque or moment of force, Equilibrium, Conditions of Equilibrium,  Exercise, Comprehensive Questions, Numerical Problems | ***Practice of Fazaian Honour Code -1*** |
| **5** | (Pages 52-63) **CHAPTER 3: MOTION AND FORCE:**  Vector nature of displacement, Velocity, Acceleration, Graphical analysis of Motion, Equations of uniformly accelerated motion, Newton’s Laws of motion | **Elections of Students’ Council (Extended Break Time on Election day)** |
| **6** | (Pages 63-68) **Chapter 3 (Contd):** Linear momentum, Elastic and inelastic collision, Momentum and explosives forces. | ***Defence Day Celebration*** |
| **7** | (Pages 69-80) **Chapter 3 (Contd):** Projectile motion, Exercise, Comprehensive Questions, Numerical Problems | ***Importance of Ashora-e-Moharram*** |
| **8** | (Pages 81-92) **CHAPTER 4: WORK AND ENERGY:** Work, Work done in gravitational field, Power, Energy, Implication of energy losses in practical devices efficiency and Absolute potential energy | ***Practice of Fazaian Honour Code -2*** |
| **9** | (Pages 92-99) **Chapter 4 (contd):** Escape velocity, Inter conversion of potential energy, kinetic energy and Conservation of energy, Sources of energy | ***Practice of Fazaian Honour Code -3*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **10** | (Pages 99-111) **Chapter 4 (contd):**, Exercise, Comprehensive Questions, Numerical Problems | ***World Teacher’s Day*** |
| **11** | (Pages 146-154) **CHAPTER 6: FLUID DYNAMICS:** Viscous Drag and Stokes Law, Terminal Velocity, Fluids Flow, Equation of Continuity | ***Practice of Fazaian Honour Code -4*** |
| **12** | (Pages 154-169) **Chapter 6 (contd):** Bernoulli’s Equation, Exercise, Comprehensive Questions, Numerical Problems | ***Lecture on Personal Hygiene*** |
| **13** | **MID-YEAR REVIEW** | |
| **14** |
| **15** | (Pages 170-183) **CHAPTER 7: OSCILLATION**, Oscillations,  Terminology of oscillatory motion, Simple Harmonic Motion,  Circular Motion and Simple Harmonic Motion, Simple Pendulum, Free and Forced Oscillations, Resonance, Wave Form of SHM. | ***Celebration of Iqbal’s Day*** |
| **16** | (Pages 183-191) **Chapter 7 (contd):**Phase, Damped Oscillations, Sharpness of Resonance, Exercise, Comprehensive Questions, Numerical Problems | ***Practice of Fazaian Honour Code -5*** |
| **17** | (Pages 192-218) **CHAPTER 8 : WAVES:** Periodic Waves, Progressive Waves, Classification of progressive waves, Speed of Sound, Superposition of waves, Interference of waves, Interference of sound waves, Beats, Reflection of waves and phase change. | ***Importance of Rabi-ul-Awal*** |
| **18** | (Pages 218-243) **Chapter 8 (contd):** Stationary waves, Transverse stationary waves in a stretched string, Fundamentals and overtone vibration, Resonance of air column and organ pipes, Doppler’s Effect, Ultrasonic waves  Exercise, Comprehensive Questions, Numerical Problems | ***Lecture on First Aid/Fire Fighting*** |
| **19** | **SEND-UP EXAMINATION (HSSC)** | |
| **20** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **21** | (Pages 112-132) **CHAPTER 5: ROTATIONAL AND CIRCULAR MOTION:** Angular Displacement, Relation between Linear and Angular displacement, Centripetal Force and Centripetal Acceleration, Torque and Moment of Inertia  Angular Momentum and torque, Kinetic Energy of rotation,  Artificial Satellites | ***National Resolve Day to Promote Education***  ***Parent - Teacher Meeting and Appraisal of Send Up Results*** |
| **22** | (Pages 132-145) **Chapter 5 (contd):** The Orbital Velocity,  The Geostationary Orbits, The Real and Apparent Weight,  Weightlessness in Satellites and gravity free system, Exercise, Comprehensive Questions, Numerical Problems | ***Celebration of Quaid’s Day*** |
| **23** | (Pages 244-267) **CHAPTER 9 : PHYSICAL OPTICS:** Nature of light, Wave fronts, Huygens Principal, Coherent sources  Interference of Light Waves, Young’s Double Slit experiment,  Interference in thin films, Michelson’s Interferometer, Diffraction of lighting, Fraunhofer Diffraction at a single slit, Diffraction grating | ***Practice of Fazaian Honour Code -6*** |
| **24** | (Pages 267-279) **Chapter 9 (contd):** The Diffraction of X-rays by crystal, Bragg’s law, Polarization of light, Exercise, Comprehensive Questions, Numerical Problems. | ***Practice of Fazaian Honour Code -7*** |
| **25** | (Pages 280-293) **CHAPTER 10: THERMODYNAMICS:** Thermal equilibrium, Heat and work, Equivalence of heat and work, Internal energy, Thermodynamic system, First law of thermodynamics. | ***Practice of Fazaian Honour Code -8*** |
| **26** | (Pages 294-302) **Chapter 10 (contd) :** Molar Specific heats of a gas, Reversible and Irreversible Processes, Heat Engine, Second Law of Thermodynamics. | ***Building Confidence by Discussion***  ***Practice of Fazaian Honour Code -9*** |
| **27** | (Pages 302-314) **Chapter 10 (contd):** Carnot cycle, Entropy, Exercise, Comprehensive Questions, Numerical Problems. | ***Kashmir Day***  ***Practice of Fazaian Honour Code -10*** |
| **28** | **REVISION** | |
| **29** | **PRE BOARD EXAM : HSSC I** | |
| **30** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **31** | **Revision and Test** | ***Parent - Teacher Meeting and Appraisal of Pre-Board results*** |
| **32** | **Revision and Test from Chapters No 1, 2** |  |
| **33** | **Revision and Test from Chapters No 3, 4, 5** |  |
| **34** | **Revision and Test from Chapters No 6 ,7** |  |
| **35** | **Revision and Test from Chapters No 8,9,10** |  |
| **36** | **Test from Chapters No 1-10** |  |
| **37** | **PREP LEAVES** | ***Farewell Party*** |
| **ANNUAL FBISE EXAM** | | |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**CHEMISTRY: Class-XI**

**National Book Foundation, Islamabad Class XI**

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  (Pages 6-11) **Chapter 1: Stoichiometry**Mole, Mole Calculations | ***Orientation Ceremony*** |
| **2** | (Pages 12-21) **Chapter 1: (cont.):** Percentage Composition, Excess and Limiting Reactants, Theoretical Yield, Actual Yield and Percent Yield, **Exercise** | ***Discussion on Eid-ul-Azha*** |
| **3** | (Pages 22-39) **Chapter 2: Atomic Structure**Discharge Tube Experiments, Bohr’s Atomic Model and itsApplications | ***Celebration of Independence Day*** |
| **4** | (Pages 39-53) **Chapter 2: (contd.):** Plank’s Quantum Theory, X-Rays, Quantum Numbers and Orbitals, Electronic Configuration,**Exercise** | ***Practice of Fazaian Honour Code -1*** |
| **5** | (Pages 54-71) **Chapter 3: Theories of Covalent Bonding and Shapes of Molecules**: Shapes of Molecules, Theories of Covalent Bonding | **Elections of Students’ Council (Extended Break Time on Election day)** |
| **6** | (Pages 71-87) **Chapter 3: (cont.).** Molecular Orbital Theory, Bond Energy, Effects of Bonding on Properties of Compounds, **Exercise** | ***Defence Day Celebration*** |
| **7** | (Pages 88-109) **Chapter 4: Gases:** KMT of Gases, Absolute Temperature Scale on the Basis of Charles Law, Avogadro’s Law, Ideal Gas Equation, Deviation from Ideal Gas Behaviour | ***Importance of Ashora-e-Moharram*** |
| **8** | (Pages 109-125) **Chapter 4: (cont.).** Van der Waals Equation, Dalton’s Law of Partial Pressure, Graham’s Laws, Liquefaction of Gases, Plasma, **Exercise** | ***Practice of Fazaian Honour Code -2*** |
| **9** | (Pages 166-187) **Chapter 7: Chemical Equilibrium:** Reversible Reactions and Dynamic Equilibrium, Application of the Equilibrium Constant,Factors Affecting Equilibrium and Industrial Application of Lechatelier’s Principle. | ***Practice of Fazaian Honour Code -3*** |
| **10** | (Pages 187-195) **Chapter 7: Chemical Equilibrium (Contd):** Solubility Product and Precipitation Reactions, Common Ion Effect, **Exercise** | ***World Teacher’s Day*** |

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| **Academic Week** | **Unit/Chapter & Topic** | | **Personality Grooming Activities** |
| **11** | (Pages 196-211) **Chapter 8: Acids, Bases and Salts:** Acidic, Basic and Amphoteric Substances, Bronsted Lowery Concept, Conjugate Acid-Base Pairs, Lewis definitions of Acid and Base. | | ***Practice of Fazaian Honour Code -4*** |
| **12** | (Pages 212-221) **Chapter 8: (cont.)** Buffer solutions and their Applications(Major Concepts), Strengths of Acids and Bases, Lewis Definition of Acid and Base, Buffer Solutions and their Applications, Salt Hydrolysis, **Exercise** | | ***Practice of Fazaian Honour Code -5*** |
| **13** | **MID-YEAR REVIEW** | |  |
| **14** |
| **15** | (Pages 222- 241) **Chapter 9: Chemical Kinetics:** Chemical Kinetics, Rates of Reactions, Collision Theory, Transition State and Activation Energy | | **Celebration of Iqbal*’s* Day** |
| **16** | (Pages 241-247) **Chapter 9: (cont.):** Catalysis and **Exercise**  (Pages 248-264) **Chapter 10: Solutions and Colloids:** General Properties of Solutions, Concentration Units. | | ***Practice of Fazaian Honour Code -6*** |
| **17** | (Pages 265-283) **Chapter 10: (cont.):** Raoult’s law, Colligative Properties of Solutions Containing Non-Electrolytes Solutes, Colloids and**Exercise** | | ***Importance of Rabi-ul-Awal*** |
| **18** | **Revision** | | ***Practice of Fazaian Honour Code -7*** |
| **19** | **SEND-UP EXAMINATION (HSSC)** | | |
| **20** |
| **21** | (Pages 126-132) **Chapter 5: Liquids:** KMT of Liquids, Van der Waals Forces | **National Resolve Day to Promote Education** | |
| **22** | (Pages 132-145) **Chapter 5: (cont.) Liquids**Physical Properties of Liquids, Energetics of Phase Changes, **Exercise** | **Celebration of Quaid’s Day** | |
| **23** | (Pages 146-165) **Chapter 6: Solids:** KMT of Solids, Types of Solids, Properties of Crystalline Solids, Crystal Lattice ,Lattice Energy,**Exercise** | ***Practice of Fazaian Honour Code -8*** | |
| **24** | (Pages 284-301) **Chapter 11: Thermochemistry:** Energy in Chemical Reactions, Thermodynamics, Internal Energy, First Law of Thermodynamics, Standard States and Standard Enthalpy Changes, Heat Capacity, Calorimetry | | ***Practice of Fazaian Honour Code -9*** |

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| **Academic Week** | **Unit/Chapter & Topic** | | **Personality Grooming Activities** |
| **25** | (Pages 301-311) **Chapter 11: (cont.):** Hess’s Law, Born Haber Cycle and**Exercise**  (Pages 312-322) **Chapter 12: Electrochemistry:** Oxidation-Reduction Concepts | | ***Practice of Fazaian Honour Code -10*** |
| **26** | (Pages 322-344) **Chapter 12: (cont.):** Electrode, Electrode Potential and Electrochemical Series,Types of Electrochemical Cells and**Exercise,** | |  |
| **27** | (Pages 345-357) Glossary | | ***Kashmir Day*** |
| **28** | **Revision** | |  |
| **29- 30** | **PRE BOARD EXAM : HSSC** | |  |
| **31** | **Revision and Test** | ***Parent - Teacher Meeting and Appraisal of Pre-Board results*** | |
| **32** | **Revision and Test** |  | |
| **33** | **Revision and Test from Chapter No 1, 2, 3, 4** | |  |
| **34** | **Revision and Test from Chapter No 5, 6, 7, 8** | |  |
| **35** | **Revision and Test from Chapter No 9, 10, 11, 12** | |  |
| **36** | **FBISE Past Papers (Last five years) Solution** | |  |
| **37** | **PREP LEAVES** | | ***Farewell Party*** |
| **ANNUAL FBISE EXAM** | | | |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**BIOLOGY:Class-XI**

**National Book Foundation, Islamabad Class XI**

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | (Pages 6-16) **Chapter 1 Cell Structure and Functions:** Techniques used in Cell Biology, Cell wall and Plasma Membrane, Roles of Glycolipids, Regulation of Cell Interaction | ***Orientation Ceremony*** |
| **2** | (Pages 16-31) **Chapter 1 (Cont):** Cytoplasm and Organelles | ***Discussion on Eid-ul-Azha*** |
| **3** | (Pages 31- 37) **Chapter 1 (Cont):** Prokaryotic and Eukaryotic Cells, Exercise  (Pages 38-47) **Chapter 2 Biological Molecules:** Biological Molecules in Protoplasm, Importance of Water, Carbohydrates (Laboratory Manufactured Sweeteners) | ***Celebration of Independence Day*** |
| **4** | (Pages 47-60) **Chapter 2 (Cont):** Carbohydrates (Oligosaccharides), Proteins, Lipids | ***Practice of Fazaian Honour Code -1*** |
| **5** | (Pages 60- 71) **Chapter 2 (Cont):** Nucleic Acid, Conjugated Molecules, Exercise | **Elections of Students’ Council (Extended Break Time on Election day)** |
| **6** | (Pages 72- 89) **Chapter 3 Enzymes:** Structure of Enzymes, Mechanism of Enzyme Action, Factors Affecting the Rate of Enzymatic Action, Enzyme Inhibition, Classification of Enzymes, Exercise | ***Defence Day Celebration*** |
| **7** | (Pages 90-120) **Chapter 4Bioenergetics:**Photosynthesis, Cellular Respiration, Photorespiration, Exercise | ***Importance of Ashora-e-Moharram*** |
| **8** | (Pages 184-196) **Chapter 8 Diversity among Plants:** TheEvolutionary Origin of Plants, Nonvascular Plants, Seedless Vascular Plants | ***Practice of Fazaian Honour Code -2*** |
| **9** | (Pages 196 -205) **Chapter 8 (Cont):** Seed Plants, Evolution of Seeds, Gymnosperms, Angiosperms, Life Cycle of Flowering Plant, Significance of Angiosperms to Humans, Exercise | ***Practice of Fazaian Honour Code -3*** |
| **10** | (Pages 206- 218) **Chapter 9 Diversity among Animals:** Characteristics of Animals, Criteria for Animal Classification, Diversity in Animals (Phylum Annelida) | ***World Teacher’s Day*** |
| **11** | (Pages 218- 236) **Chapter 9 (Cont):** Diversity in Animals (Phylum Arthropoda), Invertebrates**,**Chordates,Exercise | ***Practice of Fazaian Honour Code -4*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **12** | (Pages 238-252) **Chapter 10 Form and Functions in Plants:**  Nutrition in Plants, Gaseous Exchange in Plants, Transport in Plants | ***Practice of Fazaian Honour Code -5*** |
| **13** | **MID-YEAR REVIEW** |  |
| **14** |
| **15** | (Pages 252-269) **Chapter 10 (Cont):**Homeostasis in Plants, Support in Plants, Growth and Development in Plants, Growth Responses in Plants, Exercise | **Celebration of Iqbal’s Day** |
| **16** | (Pages 270-280) **Chapter 11 Digestion:**Digestive System of Man(Alimentary Canal: Structure and Functional Details) | ***Practice of Fazaian Honour Code -6*** |
| **17** | (Pages 280-287) **Chapter 11(Cont):**Digestive System of Man Role of Accessory Glands, Exercise | **Importance of Rabi-ul-Awal** |
| **18** | **Revision** |  |
| **19-20** | **SEND-UP EXAMINATION (HSSC)** | |
| **21** | (Pages 122-139) **Chapter 5 Acellular Life:** Viruses: Discovery and Structure, Parasitic Nature of Virus, Life Cycle of Bacteriophage, Life Cycle of Human Immunodeficiency Virus (HIV), Viral Diseases, Prions and Viroids, Exercise | **National Resolve Day to Promote Education** |
| **22** | (Pages 140-155)**Chapter 6 Prokaryotes:**Taxonomy of Prokaryotes, Archaea, Bacteria, Structure; Shape and Size of Bacteria, Modes of Nutrition in Bacteria, Growth and Reproduction in Bacteria | **Celebration of Quaid’s Day** |
| **23** | (Pages 155-163)**Chapter 6 Prokaryotes:**Importance of Bacteria, The Bacterial Flora of Human, Control of Harmful Bacteria, Exercise  (Pages 164-183) **Chapter 7 Protists and Fungi:** Protists- The Evolutionary Relationships | ***Practice of Fazaian Honour Code -7*** |
| **24** | (Pages 164-183)**Chapter 7 Protists and Fungi:** Protists- The Evolutionary Relationships, Major groups of Protists, General characteristics of Fungi, Diversity among Fungi, Importance of Fungi and Exercise. | ***Practice of Fazaian Honour Code -8*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** | |
| **25** | (Pages 288-303) **Chapter 12: Circulation:** Blood Circulatory System of Man, Blood Vessels, Blood Pressure and its Measurement | ***Practice of Fazaian Honour Code -9*** | |
| **26** | (Pages 303-315) **Chapter 12 (Cont):** Cardiovascular Disorders, Lymphatic System of Man, Exercise | **Building Confidence by Discussion** | |
| **27** | (Pages 316-335) **Chapter 13 Immunity:** First Line of Defence, Second Line of Defence, Third Line of Defence, Exercise | ***Kashmir Day*** | |
| **28** | **Revision** | ***Practice of Fazaian Honour Code -10*** | |
| **29-30** | **PRE BOARD EXAM : HSSC** |  | |
| **31** | **Revision and Test from Chapter No 1, 2,3,** | | ***Parent - Teacher Meeting and Appraisal of Pre-Board results*** |
| **32** | **Revision and Test from Chapter No 4, 5, 6** |  | |
| **33** | **Revision and Test from Chapter No 7,8,9** |  | |
| **34** | **Revision and Test from Chapter No 10,11** |  | |
| **35** | **Revision and Test from Chapter No 12,13** |  | |
| **36** | **FBISE PAPER AND THEIR SOLUTION** |  | |
| **37** | **PREP LEAVES** | ***Farewell Party*** | |
| **ANNUAL FBISE EXAM** | | | |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**COMPUTER SCIENCE: Class-XI**

**A Text Book of Computer Science**

**National Book Foundation, Islamabad(Edition 2017) Class XI**

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  (Pages 8-13) **Chapter 1: Overview of Computer System,** Introduction to Computers, Basic Operations of Computer, Classification of Digital Computers, Modern Use of Computers | ***Orientation Ceremony*** |
| **2** | (Pages 13-21) **Chapter 1 (contd):**Computer Hardware & Software and Types of Computer Software, Computer Hardware, Input devices | ***Discussion on Eid-ul-Azha*** |
| **3** | (Pages 22-27) **Chapter 1 (contd):** Output Devices,. Key Points,Exercise and Lab activities.  **Lab Activity:**Recognition of component in System Unit | ***Celebration of Independence Day*** |
| **4** | (Pages 28-35) **Chapter 2: Computer Memory,** Introduction to Computer Memory, Memory Characteristics, Memory Terminology, Memory Built-up and Retention power, Volatile and Non-Volatile Memory, Types of Computer Memory, Main Memory, Types of Main Memory, RAM and ROM | ***Practice of Fazaian Honour Code -1*** |
| **5** | (Pages 35-41) **Chapter 2 (contd):** Secondary Memory, Secondary Storage Device, Sequential and Direct Access Memory, Types of Secondary Storage Devices, Hard Disk, Portable Hard Drive, Compact Disk, DVDs, Blu-ray Disk, Flash Memory/Chip Memory. Key Points,Exercise and Lab activities. | Elections of Students’ Council (Extended Break Time on Election day) |
| **6** | (Pages 42-47) **Chapter 3: Central Processing Unit,** Introduction, Inside CPU, Components of CPU, Registers and Buses | ***Defence Day Celebration*** |
| **7** | (Pages 47-51) **Chapter 3 (contd):** CPU Operations, Instructions, Instruction Formats, Instruction Cycle,. | ***Importance of Ashora-e-Moharram*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **8** | (Pages 51-55) **Chapter 3 (contd):**CISC and RISC Architecture, Intel and AMD Processors.Key Points,Exercise and Lab activities | ***Practice of Fazaian Honour Code -2*** |
| **9** | (Pages 56-62) **Chapter 4: Inside System Unit,** Introduction, Computer Casing and System Unit, CPU and System Unit, Computer Casings, Exploring the System unit.Ports, Expansion Cards and Memory Chips | ***Practice of Fazaian Honour Code -3*** |
| **10** | (Pages 62-67) **Chapter 4 (contd):**, Ports and Their Types and Types of Expansion CardsMemory Chips.Key Points,Exercise and Lab activities | ***World Teacher’s Day*** |
| **11** | (Pages 68-76) **Chapter 5: Network Communication and Protocols,**  Introduction, Network Communication, Basic Network Communication Components, Modes of Network Communication, Communication Media, Communication Devices | ***Practice of Fazaian Honour Code -4*** |
| **12** | (Pages 76-83) **Chapter 5 :** Network Architecture, Types of Networks, Network Topologies, Data Communication Standards, Purpose of Communication Standards, OSI Model and Protocols and Devices Used at Various Layers of OSI Model.  **Lab Activity:**Resource Sharing (Hardware and Software using networking) | ***Lecture on Personal Hygiene*** |
| **13** | **MID-YEAR REVIEW** |  |
| **14** |  |
| **15** | (Pages 83-91) **Chapter 5:** TCP/IP, TCP/IP Protocol, TCP/IP and OSI Model Comparison, Circuit Switching and Packet Switching Networks, IP Addressing Schemes. Key Points,Exercise and Lab activities. | ***Celebration of Iqbal’s Day*** |
| **16** | (Pages92-98) **Chapter 6: Wireless Communications:** Introduction, Wireless Networks, Advantages and Disadvantages of Wireless Networks, Wireless Network Terminology, Short and Long Distance Wireless Communications.Short Distance Wireless Communication, | ***Practice of Fazaian Honour Code -5*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **17** | (Pages 98-105) **Chapter 6:** Wi-Fi, Wi-Max, BLUETOOTH, INFRA-RED, Long Distance Wireless Communication, Cellular Communication, Global Positioning System, Mobile Device Communication and Requirements of Mobile Communication. Features and Limitations of Mobile Communication Systems, Architecture for Communication Over Mobile Devices.Key Points,Exercise and Lab activities. | **Importance of Rabi-ul-Awel** |
| **18** | **REVISION** | ***Lecture on First Aid/Fire Fighting***  ***Practice of Fazaian Honour Code -6*** |
| **19** | **SEND-UP EXAMINATION (HSSC)** | |
| **20** |
| **21** | (Pages 106-114) **Chapter 7: Database Fundamentals,** Introduction to Database, Data and Information, File Management System, Database, Database Management System, Advantages of DBMS over File Management System, Role of DBA, Database Models, Database Languages and Basic database Terminologies. | ***National Resolve Day to Promote Education***  ***Practice of Fazaian Honour Code -7*** |
| **22** | (Pages 115-125) **Chapter 7 (contd):** Planning Database, Data Modelling and Entity – Relationship Diagram, Cardinality and Modality, ER Diagram Examples, Library Management System, Student Management System and Ticket Booking System. | ***Celebration of Quaid’s Day*** |
| **23** | (Pages 125-129) **Chapter 7(contd):** Normalization of Relational Database**,** Key Points,Exercise and Lab activities. | ***Parent – Teacher Meeting and Appraisal of Send Up Results*** |
| **24** | (Pages 130-140) **Chapter 8: Database Development,** Introduction, Various Types of DBMS, Selecting a Suitable DBMS, Creating and Saving an Access database, Database Objects, Working With Tables, Creating, Saving and Editing a Table, Data types in Access and Creating Primary Key and Foreign Key.  **Lab Activity:**Design and develop a database containing: Tables (3 to 5), Queries (4 to 6), Forms (up to 10) and Reports(5 to 10) | ***Practice of Fazaian Honour Code -8*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **25** | (Pages 140-149) **Chapter 8(contd):** Creating and Editing Relationship between Tables, Navigating Through Records in a Table, Adding, modifying and Deleting Records, Working with Forms, Creating, Saving and Editing Forms, | ***Practice of Fazaian Honour Code -9*** |
| **26** | (Pages 149-160) **Chapter 8(contd):** Different Form Views, Navigating Through Records In a Form Using Form to Add, Modify and Delete Record, Using Form Controls, Working with Queries and Commands, Generating Reports, Creating a Simple Report | ***Building Confidence by Discussion*** |
| **27** | (Pages 160-172) **Chapter 8(contd):**, Creating a Report Using a Query, Viewing and Printing Report.Key Points,Exercise and Lab activities. | ***Kashmir Day*** |
| **28** | **Revision** | ***Practice of Fazaian Honour Code -10*** |
| **29** | **PRE BOARD EXAM** | |
| **30** |
| **31** | **Revision and Test from Chapter No 1, 2**  Lab Activity: Design and develop Student Information System | ***Parent - Teacher Meeting and Appraisal of Pre-Board results*** |
| **32** | **Revision and Test from Chapter No 3, 4**  Lab Activity: Design and develop Student Information System |  |
| **33** | **Revision and Test from Chapter No 5, 6**  Lab Activity: Design and develop Student Information System |  |
| **34** | **Revision and Test from Chapter No 7, 8**  Lab Activity: Design and develop Student Information System |  |
| **35** | **Revision and Test from Chapter No 1-4**  Lab Activity: Design and develop Student Information System |  |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **36** | **FBISE PAPER 2019** | ***Farewell Party*** |
| **37** | **PREP LEAVES** |  |
| **ANNUAL FBISE EXAM -2020** | | |

**WEEKLY SYLLABI BREAKDOWN: ACADEMIC SESSION 2019-20**

**CLASS-XI (HSSC-I)**

مضمون : اسلامیات لازمی

جماعت : گیارہویںنیشنل بْک فاؤنڈیشن

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **1** | **Ice-Breaking at the Session Commencement** [*Introduction with classes, Overview of Textbooks/ Syllabi/ Time Table and General Academic Scheduling*]  **باب اوّل:** **بنیادی عقائد** توحید (صفحہ نمبر ۷تا ۱۲) | **Orientation Ceremony** |
| **2** | توحید (جاری) (صفحہ نمبر ۱۲ تا ۱۸) | **Discussion on Eid-ul-Azha** |
| **3** | رسالت (صفحہ نمبر ۱۸تا۲۷)  ملائکہ (صفحہ نمبر۲۷) | **Celebration of Independence day** |
| **4** | آسمانی کتابیں (صفحہ نمبر ۲۸تا۳۱) آخرت (صفحہ نمبر ۳۲تا ۳۷) | ***Practice of Fazaian Honour Code -1*** |
| **5** | **اسلامی تشخصباب دوم**:  **ارکانِ اسلام** ، کلمہ شہادت ,نماز (صفحہ نمبر۳۸تا ۴۰) | **Elections of Students’ Council**  (Extended Break Time on Election day) |
| **6** | ارکانِ اسلام ،نماز(جاری ہے) (صفحہ نمبر۴۱تا ۴۳) , روزہ(صفحہ نمبر۴۳تا ۴۷) | **Defence Day Celebration**  ***Practice of Fazaian Honour Code -2*** |
| **7** | زکوٰۃ (صفحہ نمبر ۴۷تا۵۲) | **Importance of Ashora-e-Muharram** |
| **8** | حج(صفحہ نمبر ۵۲تا۵۶)  جہاد (صفحہ نمبر۵۶تا۶۰) | **Activity**: Show a Short video on Hajj  **Activity**: Make a mind map on war strategies and rule of war in islam |
| **9** | اﷲ تعالیٰ اور رسولﷺ کی محبت و اطاعت (صفحہ نمبر ۶۱تا۶۲)  حقوق العباد (صفحہ نمبر ۶۳تا ۷۱) | ***Practice of Fazaian Honour Code -3*** |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **10** | **باب چہارم:** **تعارف قرآن و حدیث** تعارفِ قرآن (صفحہ نمبر ۱۰۰تا۱۱۲) | **World Teacher’s Day** |
| **11** | **منتخب آیات ۱تا ۶** (صفحہ نمبر ۱۱۹تا۱۲۲) | ***Practice of Fazaian Honour Code -4*** |
| **12** | **Revision** | ***Lecture on Personal Hygiene*** |
| **13** | **MID-YEAR REVIEW** |  |
| **14** |
| **15** | **باب سوم: اسوۀ رسول اکرمﷺ** رَحْمَۃ لِّلْعَالَمِیْنَ (صفحہ نمبر ۸۷تا۹۰) | **Celebrationof Iqbal’s Day** |
| **16** | **تعارفِ حدیث**(صفحہ نمبر ۱۱۳تا۱۱۹)  **منتخب احادیث ۱ تا ۶**(صفحہ نمبر ۱۲۵) | **Peer Coaching**  ***Practice of Fazaian Honour Code -5*** |
| **17** | **(ا)** **معاشرتی ذمہ داریاں** محاسنِ اخلاق (صفحہ نمبر ۷۱ تا ۸۰) | **Importance of Rabi-ul-Awal** |
| **18** | **Revision** | **Lecture on First Aid/Fire Fighting** |
| **19** | **SEND-UP EXAMINATION (HSSC)** |  |
| **20** |
| **21** | **(ب)**رذائلِ اخلاق (صفحہ نمبر ۸۰ تا ۸۶) | **National Resolve Day to Promote Education** |
| **22** | منتخب آیات ۷ تا ۱۲(صفحہ نمبر ۱۲۲تا۱۲۴) | **Celebration of Quaid’s Day** |
| **23** | اُخُوّت (صفحہ نمبر ۹۰تا۹۱)  مساوات (صفحہ نمبر ۹۲تا۹۳) | ***Practice of Fazaian Honour Code -6*** |
| **24** | منتخب احادیث ۷ تا ۱۲(صفحہ نمبر ۱۲۶ تا ۱۲۷) | ***Practice of Fazaian Honour Code -7*** |
| **25** | صبر و استقلال(صفحہ نمبر ۹۳تا۹۵) | ***Practice of Fazaian Honour Code -8*** |
| **26** | عفو و درگذر (صفحہ نمبر ۹۵تا۹۶) | Motivational talk on religious tolerance |

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| **Academic Week** | **Unit/Chapter & Topic** | | **Personality Grooming Activities** |
| **27** | ذِکر (صفحہ نمبر ۹۶تا۹۹) | **Kashmir Day**  ***Practice of Fazaian Honour Code -9*** | |
| **28** | **دہرائی** | ***Practice of Fazaian Honour Code -10*** | |
| **29** | **PRE BOARD EXAM : HSSC ( I & II)** |  | |
| **30** |
| **31** | **Revision and Test** | **Parent - Teacher Meeting and Appraisal of Pre-Board result*s*** | |
| **32** | **اسباق کا اعادہ** باب اوّل: بنیادی عقائد  امتحانی پرچے کا طریقہء کار اور ماڈل پیپرز کی وضاحت، دہرائی، FBISE کے8,2019201 2017, ،2015،2016ء تک کے پرچہ جات میں موجود سوالوں کے جوابات |  | |
| **33** | **اسباق کا اعادہ**باب دوم: اسلامی تشخص  امتحانی پرچے کا طریقہء کار اور ماڈل پیپرز کی وضاحت، دہرائی، FBISE کے8,2019201 2017, ،2015،2016ء تک کے پرچہ جات میں موجود سوالوں کے جوابات |  | |
| **34** | **اسباق کا اعادہ** باب سوم: اسوۀ رسول اکرمﷺ  امتحانی پرچے کا طریقہء کار اور ماڈل پیپرز کی وضاحت، دہرائی، FBISE کے8,2019201 2017, ،2015،2016ء تک کے پرچہ جات میں موجود سوالوں کے جوابات |  | |
| **35** | **اسباق کا اعادہ** باب چہارم: تعارف قرآن  امتحانی پرچے کا طریقہء کار اور ماڈل پیپرز کی وضاحت، دہرائی، FBISE کے8,2019201 2017, ،2015،2016ء تک کے پرچہ جات میں موجود سوالوں کے جوابات |  | |

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| **Academic Week** | **Unit/Chapter & Topic** | **Personality Grooming Activities** |
| **36** | **اسباق کا اعادہ** باب چہارم: تعارف حدیث  امتحانی پرچے کا طریقہء کار اور ماڈل پیپرز کی وضاحت، دہرائی، FBISE کے8,2019201 2017, ،2015،2016ء تک کے پرچہ جات میں موجود سوالوں کے جوابات |  |
| **37** | **PREP LEAVES** | Farewell Party |
| **ANNUAL FBISE EXAM** | | |