

آزاد حکومت ریاست جموں و کشمیر

نظامتِ اعلیٰ تحقیق و ترقی نصاب



تحقیف شدہ سلیبس

جماعت نہم

برائے سیشن 21 - 2020ء

(COVID-19)

بلاک - ایل، ڈسٹرکٹ کمپلیکس، اولڈ سیکرٹریٹ، مظفر آباد آزاد کشمیر

ستمبر 2020ء


Raja Muhammad Safeer Khan
Dy. Director
DCRD Mirzafrabad A. J. K.

تخفیف شدہ سلیبس

”اردو“ جماعت نہم برائے سال 2020-21

نمبر اشعار	موضوعات	صفحہ نمبر
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نمبر شمار	عنوان سبق	صفحات	مختب موضوعات
۱۳	ہر حال میں رہا جو برا آسرا مجھے	۱۳۵-۱۳۹	شاعر کے حالات زندگی، غزل کی تشریح مع حوالہ سمن، الفاظ و معانی اور مکمل مشق
خطوط نویسی، درخواست نویسی			
۱۴	جماعت نہم کے لیے نصاب میں دیے گئے موضوعات پر طلبہ کو خطوط نویسی اور درخواست نویسی (رسمی اور غیر رسمی خطوط) سے متعلق معلومات فراہم کر کے خطوط اور درخواستیں لکھنے کی مشق کروائی جائے۔		
مکالمہ نویسی اور کہانی لکھنا			
۱۵	جماعت نہم کے لیے نصاب میں دیے گئے موضوعات پر طلبہ کو مکالموں اور کہانیوں سے متعلق معلومات فراہم کر کے مکالمے اور کہانیاں لکھنے کی مشق کروائی جائے۔		
قواعد / زبان شناسی			
۱۶	- جماعت نہم کے لیے قومی نصاب برائے اردو لازمی ۲۰۰۶ء کے تقاضے کے مطابق قواعد کے تصورات سے متعلق طلبہ کو معلومات فراہم کر کے تفہیم، استحسان و تنقید اور مہارت کے لیے مشق کروائی جائے۔ تفہیم اور مشق کے لیے آزاد جملوں و کشمیر ٹیکسٹ بک بورڈ مظفر آباد کی کتب اردو برائے جماعت دہم اور اردو قواعد و انشا نہم و دہم میں شامل مواد سے استفادہ کیا جائے۔ - ذیل میں نصاب کی ضرورت کے مطابق تصورات کی فہرست پیش کی جا رہی ہے۔ اس فہرست میں شامل تصورات سے متعلق مواد اگر درسی کتاب کے منتخب اور غیر منتخب اسباق میں شامل نہ ہو تو حسب ضرورت اضافی کتب سے مدد لے کر طلبہ کو سکھایا جائے۔		
	۱۔ جملے کے اجزائے ترکیبی کی تعریف کرنا ۲۔ جملہ اسمیہ اور جملہ فعلیہ میں امتیاز کرنا ۳۔ ذو معنی الفاظ کا استعمال ۴۔ علم بیان کی بنیادی اصطلاحوں مثلاً تشبیہ، استعارہ، کنایہ، مجاز مرسل کی تعریف ۵۔ شعری اصطلاحات (مصرع، شعر، بند، مطلع، مقطع، قافیہ، ردیف) کی تعریف ۶۔ مبتدا اور خبر کا فرق اور آگاہی	۷۔ روزمرہ اور محاورہ کے لحاظ سے غلط فقرات کی درستی ۸۔ مختلف اصناف سخن میں امتیاز ۹۔ مختلف انداز بیان (ادبی، صحافی، دفتری، قانونی، تکنیکی) میں امتیاز ۱۰۔ مرکب ناقص اور مرکب تام میں فرق کرنا ۱۱۔ مکالمہ / اردو ادبی نویسی ۱۲۔ کہانی لکھنا ۱۳۔ خط (رسمی / غیر رسمی) ۱۵۔ تفہیم عبارت اور پچھلی جماعتوں میں سیکھے گئے تصورات کا اعادہ	

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REDUCED SYLLABUS
English 9 Session 2020-21

LITERATURE	
Units (for text reading, Urdu translation, comprehension, vocabulary, spelling & summary)	Prose: 1, 3, 4, 11, 13
	Poetry: 5, 9, 14
GRAMMAR (activities in the whole textbook and grammar book)	
Parts of Speech	All parts of speech discussed in all units of textbook and English Grammar
Punctuation	All punctuation marks discussed in all units of textbook and English Grammar
Tenses	All tenses discussed in all units of textbook and English Grammar
English Translation	All exercises on English Grammar from page 75-98
Voice	All exercises given in all units of textbook and English Grammar
COMPOSITION	
Applications	To: Principal/Headmaster/Headmistress: for school leaving certificate, for fee concession, for admission in his/her institution, for character certificate, for leave to attend a ceremony, for permission a school visit
Letters	To: father asking him for money to buy new books, younger brother to tell him about the importance of games, friend to condole him/her on his/her mother's death, father informing him about your studies, mother asking about her health, friend inviting him/her on your birthday party, brother advising not to waste his time
Stories	Pride hath a fall, Union is strength, Necessity is the mother of invention, Beware of flatterers, Do good, have good, Beware of fair weather friends, All that glitters is not gold, Honesty is the best policy, Tit for tat, Haste makes waste

Books (prescribed): i. Textbooks (English) by AJ&K Textbook Board. ii. The English Grammar and Composition.

Note: It is advised to focus only on the syllabus given below. However, teachers are allowed and will be welcomed if they plan and teach the whole course during the remaining period of Academic session, 2020-2021.

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تخفیف شدہ سلیبس

”اسلامیات لازمی“ جماعت نہم برائے سال 2020-21

نمبر شمار	سبق کا عنوان	تفصیل
۱	القرآن الکریم	ترجمہ و تشریح، قرآن کا تعارف مکمل، منتخب آیات شامل نصاب (آیات ۱، ۳، ۵، ۷، ۸، ۱۰)
۲	الحدیث	مکمل
۳	موضوعاتی مطالعہ	عقیدہ رسالت، حب رسول، اطاعت و اتباع، ختم نبوت، سیرت طیبہ: دعوت و تبلیغ، ہجرت مدینہ اخلاق و آداب، علم کی اہمیت و فضیلت، اسلام میں خاندان کی اہمیت
۴	مشاہیر اسلام	حضرت امام حسین رضی اللہ عنہ، حضرت ابو عبیدہ ابن الجراح رضی اللہ عنہ

”مطالعہ پاکستان“ جماعت نہم برائے سال 2020-21

نمبر شمار	سبق کا عنوان / ابواب	ذیلی عنوانات
۱	پاکستان کی نظریاتی اساس	۱۔ نظریہ کی تعریف ، ماخذ اور اہمیت ، ۲۔ نظریہ پاکستان کی اساس ، بنیادی اسلامی اقدار اور ہندوستان میں مسلمانوں کی معاشی محرومی ، ۳۔ دو قومی نظریہ (آغاز اور وضاحت)
۲	پاکستان کا قیام	۱۔ تحریک پاکستان 1940ء تا 1947ء ، ۲۔ قیام پاکستان میں قائد اعظم کا کردار
۳	زمین اور ماحول	۱۔ محل وقوع ، ۲۔ جغرافیائی خصوصیات ، ۳۔ بڑے باجلیاتی خطرات اور ان کے حل
۴	تاریخ پاکستان (حصہ اول)	۱۔ ریاست کا استحکام اور آئین کی تیاری (1947ء تا 1958ء) ۲۔ ایوب خان کا دور (1958ء تا 1959ء)

REDUCED SYLLABUS

Mathematics (Science Group) Class 9 Session 2020-21

Unit No.	Topics, Exercises/ Class Work	Exercise/ Home Work
Unit # 1 Matrices & Determinant	Content: definition of terms matrix, order of matrix, equal matrices, type of matrices with examples Exercise No1.1 QNo1 Exercise No1.2 QNo2 (i, iii) QNo3 (matrix A,B) QNo4 (matrix A) QNo6 Contents: Addition, Subtraction and Multiplication of Matrices by real number, commutative & associative laws under addition, additive identity and additive inverse of a matrix Exercise No1.3 QNo1(a) QNo2 (iii) QNo3 (iv) QNo4 (iv) QNo5 Contents: Multiplication of matrices, commutative law, multiplicative identity, transpose of product of matrices. Exercise No1.4 QNo.1(iii, v), QNo1b (ii) QNo3(i), QNo4(iv) contents: Determinant of matrix, Singular & non-singular of matrix, Adjoint and multiplicative inverse of a matrix Exercise No1.5 QNo1. (Matrix A), QNo2, 3 (ii) QNo5 (iii), QNo6 Contents: solution of simultaneous linear equation by matrix method and Cramer's rule Exercise No1.6 QNo1(ii, iv), QNo2	Exercise No1.1 QNo2 Exercise No1.2 QNo2 (iv) QNo3 (matrix C) QNo4 (matrix B) QNo7 Exercise No1.3 QNo1(b) QNo2 (i, ii) QNo3 (ii, iii) QNo4 (i, ii) QNo7 Exercise No1.4 QNo.1(ii, vi, viii), QNo1b (iii) QNo3(ii), QNo4(v) Exercise No1.5 QNo1. (Matrix B), QNo3 (i) QNo5 (i), QNo7 Exercise No1.6 QNo1(iii), QNo3 Review Ex QNo1&QNo2
Unit #2 Real & Complex Numbers	Content: set of real number (rational and irrational numbers). Decimal representation of rational and irrational numbers, Exercise No2.1 QNo1, QNo7, 9(i, iii) Content: properties of real numbers with equality & inequalities, radical & exponential form and simplification of expressions involving radical	Exercise No2.1 QNo2,3,4 QNo9 (ii, iv) Exercise No 2.2 Exercise No2.3 QNo4. (v, vii, xi,) QNo5. (i) QNo7(i)

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Director
BCRD Muzaffarabad AJ&K

Unit No.	Topics, Exercises/ Class Work	Exercise/ Home Work
	sign Exercise No2.3 QNo4. (iv, vi, x, xiii) QNo5. (ii, iii) QNo7(ii, iii) Content: Laws of Exponents/Indices Exercise No2.4 QNo2. (i, v), QNo4 (ii, iv) QNo6 (i) QNo7 (ii, iii) Content: Basic operations on complex numbers Exercise No2.5 QNo1 (i, iii, v) QNo2 (ii, vi) QNo3 (i) QNo5 (ii) QNo6 (i, v)	Exercise No2.4 QNo2. (ii, vi), QNo4 (v) QNo6 (ii) QNo7 (i, v) Exercise No2.5 QNo1 (ii, vi, ix) QNo2 (iii, v) QNo3 (ii, v) QNo5 (i) QNo6 (ii, iv) Review Ex QNo1, QNo2 (i, ii, iii, iv, ix & x) QNo4
Unit # 3 Logarithms	Content: scientific Notation & logarithms of a real number Ex. No3.1 QNo1(ii) QNo2(i, iii) QNo3(ii) QNo4(i) QNo5 Exercise No3.2 QNo1, 3, 5, 9, 13, 15, 19, & 23 Exercise No3.3 QNo2. (ii, iv) QNo3 (i, iii) QNo4 (ii, v) Content: Laws of Logarithms Content: use of tables to find the logarithms of a number. Exercise No3.4 QNo1 (i) QNo2 (iii) QNo3 (i) QNo4 (ii, iv) Content: Application of logarithms Exercise No3.5 QNo1, 5 & 9	Exercise No3.1 QNo1 (i) QNo2 (ii, iv) QNo3 (i, iv) QNo4 (ii) Exercise No3.2 QNo2, 6, 14, 15, 20, & 25 Exercise No3.3 QNo2. (i, v, vi) QNo3 (ii, iv) QNo4. (iv, vi, viii) Exercise No3.4 QNo1 (ii, iii) QNo2 (ii, iv) QNo3 (ii, iii) QNo4 (i, v) Exercise No3.5 QNo2, 3, 6, & 8 Review Ex QNo1 & 2
Unit # 4 Algebraic Expression & Formulae	Content: definition of the term algebraic expression, terms, coefficients, degree, rational & irrational expression, sum, difference and product of rational expression Exercise No4.1 QNo4 (ii) QNo5 (iii) QNo6, QNo8 (i) QNo9 (ii) & QNo12 Content: Algebraic formulae express a rule in algebraic terms Exercise No 4.2 QNo1, 3, 6, & QNo9 (ii, iv) Content: Definition of term Surds and its Applications Exercise No 4.3 QNo1. (i, iii) QNo2. (ii, v) QNo4 (i, v) QNo6, 9 & QNo11(i)	Exercise No4.1 QNo1, 2, 3 QNo5 (i, ii) QNo8 (ii) & QNo9(i) Exercise No 4.2 QNo2, 5, & QNo9 (iii, v, vi) Exercise No 4.3 QNo1. (ii, v, vi) QNo2. (ii, iv) QNo3 (i, iii, iv) QNo7, 10 & QNo11(ii) Review exercise: QNo1 & 2
Unit # 4 Factorization	Content: Factorization of Algebraic expressions of four types is given on page No 92, 93, 94, 95 & 96. Exercise No 5.1 QNo2, 5 & 8 Exercise No 5.2 QNo1. (i) QNo2. (ii, v, ix) QNo3(i) QNo4(i) & QNo5 (ii, iv) Content: Remainder & Factor Theorem Exercise No5.3 QNo1. (i) QNo3, QNo4 (ii) QNo5 (i) QNo7(i) Content: Factorization of Cubic polynomial Exercise No5.4 QNo1, 3 (ii, v) QNo5, 8(i)	Exercise No5.1 QNo3, 7 & 9 Exercise No5.2 QNo1. (ii, iii) QNo2. (iii, vi, x) QNo3(ii) QNo4(ii) & QNo5 (i, v) Ex.No5.3 QNo1. (ii) QNo2, QNo4 (i) QNo5 (ii) QNo7(iii) & QNo8 Exercise No5.4 QNo2, 3 (iii, vi, vii) QNo4 & 8(ii) Review Ex QNo1 & 2
Unit # 6 Algebraic Manipulation	Content: definition of the term of HCF - Find HCF by Factor & Division method Exercise No6.1 QNo1. (i, iv) QNo2, 4, QNo10	Exercise No6.1 QNo1. (ii, v, vii, viii) QNo3, 6, 7

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Unit No.	Topics, Exercises/ Class work	Exercise/ Home Work
	Content: definition of the term LCM. Find LCM by Factor & Division method & Relation between HCF & LCM Exercise No6.2: QNo1 (i), 12 & 15 Content: Basic operations on algebraic fractions Exercise No6.3: QNo2, 7 & 10 Content: Square root on algebraic expressions by factorization & division method Exercise No6.4: QNo1, 5, 7 & 13 Contents: definition of the term linear equations in one variable, reduce equations involving radicals, too simple linear form and their solutions Ex. No7.1: QNo1(i, iv) QNo2(i, iii, vi) QNo3.6 & 10 Content: Equations involving absolute value Exercise No7.2: QNo1, 3 & 8 Content: Linear inequalities and solving inequalities Exercise No7.4: QNo1, 3, 5, 8 & 21	QNo11 Exercise No6.2 QNo1 (i, iii) QNo3, 8, 10, 14, & 16 Exercise No6.3 QNo4, 8, & 12 Ex. No6.4: QNo3.6, 8 & 14 Review Ex: QNo1 & 2 Exercise No7.1: QNo1(i, iii, v) QNo2(ii, iv, vii, ix) QNo5, 7, 11, 13 & 16 Exercise No7.2: QNo2, 4, & 7 Exercise No7.3 Ex.No7.4: QNo2, 6, 9, 11 & 23 Review Exercise: QNo1 & QNo2
Unit # 9 Coordinate Geometry	Content: Definition of the term coordinate geometry, Distance formula and use of distance formula to find distance between two points Exercise No9.1 QNo1 (ii) QNo3 & 7 Content: Definition of the term collinear & non-collinear points, use of distance formula to show that three points are collinear, use of distance formula to show that given three non-collinear points form a) an equilateral triangle, b) An isosceles triangle c) right triangle d) a scalene triangle and use of distance formula to show that given four non-collinear points form a) a rectangle b) a square c) a parallelogram Exercise No9.2 QNo1 (ii) QNo2 (iii) QNo3 (i) & QNo5 Content: Mid-point formula and application of distance & mid-point formulae to verify results related to geometry Exercise No9.3 QNo1 (i) QNo2, QNo4(i), QNo5 Content: Definition of the terms congruent triangles equiangular, similar triangle, SSS & SAS postulates Theorem No 2 & 3 (Ex 10.1, 10.2 & 10.3 are excluded) Review exercise QNo1	Exercise No9.1 QNo1 (i, iii) QNo2 (i, ii) QNo3 (ii, iii) Exercise No9.3 QNo1 (ii, iii) QNo4(ii) QNo5 & 6 Review exercise: QNo1, QNo2 (ii, iv, vi, ix & xii) QNo4, 6, & 7 Theorem 2 & 3 Review exercise QNo1
Unit # 10 Congruent Triangles	Theorem No 1 & 2 (exercises 11.1, 11.2 & 11.3 are excluded) Review exercise QNo1 & 2	Theorem No 1 & 2
Unit # 11 Parallelogram and Triangles	Content: Definition of terms a) Median of a triangle & b) Diagonal of a parallelogram Theorem No 1 & 4 (exercises 12.1 & 12.2 are excluded) Review exercise QNo1 & 2	Theorem No 1 & 4 Review exercise QNo1 & 2

Unit No.	Topics, Exercises/ Class work	Exercise/ Home Work
Unit # 13 Sides and Angles of a Triangle	Theorem No 1 & 3 (exercises 13.1 is excluded) Review exercise QNo1 & 2	Theorem No 1 & 3 Review Exercise QNo1 & 2
Unit #14 Ratio & Proportion	Content: Definition of terms (a). Ratio (b). Proportion (c). Altitude of a triangle (d) Congruent triangles Theorem No2 & 4 (exercises 14.1 & 14.2 are excluded) Review exercise QNo1 & 2	Theorem No2 & 4 Review exercise QNo1 & 2
Unit # 15 Pythagoras Theorem	Content: Definition of terms (a) Pythagoras theorem (b) acute, obtuse & right triangle and (c) hypotenuses of a right Theorem No1 (exercises 15.1 is excluded) Review exercise QNo1 & 2	Theorem No1 Review exercise QNo1 & 2
Unit # 17 Practical Geometry	Content: Draw of an altitudes, perpendicular bisectors & medians of a given triangles and verify their concurrency. Definition of terms In-Centre, Circumcenter, Ortho-center and centroid of a triangle Exercise No 17.3: QNo1(ii) QNo2 (i) QNo3(i) Exercise No 17.4: QNo1, 2, 4 & 5	Exercise No 17.3: QNo1(i) QNo2 (ii) QNo3 (ii) Exercise No 17.4: QNo1, 2, 4 & 5 Review exercise QNo1 & 2

REDUCED SYLLABUS
Physics 9 Session 2020-21

Unit #	Unit Name	Topic Name
01	Physical Quantities and Measurements	Introduction to Physics, Physical Quantities, International system of units, Prefixes, Standard form / Scientific Notation. Summary: 1, 2, 3, 4, 5, 6, 7 points. MCQs: 1, 2, 3, 4, 5, 6 Qs. Short Qs: 1, 2, 3, 4, 5, 6, 7 Qs. Comp. Qs: 1, 2 Numerical: 1, 2, 3, 4
02	Kinematics	Rest and Motion, Types of motion, Terms associated with motion (with examples) Distance and Displacement, Speed, Velocity, Acceleration, Scalars and Vectors. Equations of motion, Acceleration due to gravity Summary: 1, 2, 3, 4, 6, 7, 8, 9, 10, 11 MSQs: 1, 2, 3, 4, 6, 9, 10 Short Qs: 1, 2, 3, 4, 5, 7 Comp. Qs: 1, 2, 5 Numerical: 1, 2, 3, 4, 5, 6
03	Dynamics	Introduction to Force, Newton's 1 st law of Motion 2 nd Law of Motion with Example 3.1, 3 rd Law of Motion, Mass & Weight, Momentum with Example 3.7, Friction with Example 3.10, The circular motion, centripetal Force centrifugal force. Summary: 1, 2, 3, 4, 5, 6, 7, 10, 11, 12 MCQs: 1, 2, 3, 4, 5, 7, 9, 11, 12 Short Qs: 1, 2, 3, 6, 10

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Unit #	Unit Name	Topic Name
04	Turning Effect Of Force	Comp Qs: 1,2,3,4,6,9 Numerical: 1,2,3,4,5,6 Introduction, Forces on a Body, Addition of forces, Resolution of forces (only definition p-99), Moment of force or torque, center of mass, couple, equilibrium, (only definition P-106) Conditions of Equilibrium. Summary: 1-9 (all) MSQs: 1,2,3,4,5,9,12 Short Qs: 2,3,4,5,7,9,11,12 Comp Qs: 1,2,5 Numerical: 1,3
05	Gravitation	Introduction, Newton's Law of Gravitation, Gravitational field with only example 5.1. Summary: 1, 2 MCQs: 1, 2, 3, 4 Short Qs: 1, 2, 3,4,5 Comp. Qs: 1,2 Numerical: 1,2,3,4,5
06	Work and Energy	Introduction, Work (with activity, definition of Work with formulas and unit P-132) Also example 6.1 K.E, P.E with examples, Efficiency, power with examples Summary: 1,2,3,4,6,7 MCQs: 1,2,3,4,5,6,7 Short Qs: 1,2,3,4,6 Comp. Qs: 1,2,3,6,7 Numerical: 1,2,3,6,7 Page 150-153
07	Properties of Matter	Introduction Kinetic molecular model of matter, Density, Atmospheric pressure, Pascal's law, Archimedes principle Elasticity and elastic limits (definition of elasticity), Hook's law with example, Stress, Strain, Young's modulus (Without examples) Summary: 1,2,4,6,8,9,10,11 MCQs: 1,2,3,4,5,8 Short Qs: 1,2,5,6,11,12,13 Comp. Qs: 1,2,3,6,9,10,11,12 Numerical: 1,3,7,8 Page 172-175
08	Thermal properties of Matter	Introduction, Temperature, Heat and Internal Energy, Thermal expansion, Thermal expansion of Solids, Linear thermal expansion (without example 8.4), volume thermal expansion of solids (without examples 8.5) Thermal Expansion of liquids, Heat Capacity and Specific heat capacity with example 8.6. latent Heat of fusion (only definition P.194) Latent Heat of Vaporization (only definition P-197) Summary: 2,3,4,5,6,7,8,10,11,12,13,14,15,16 MCQs: 1,2,3,7,8,9,10 Short Qs: 1,5,7,8,9,10,14,15,16,17,18 Comp. Qs: 1,3,4,5,6,7,10,13 Numerical: 4,5,6,7,8,9,10, Page 202-209

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Unit #	Unit Name	Topic Name
09	Transfer of Heat	Introduction, Conduction of Heat, Mechanism of Heat conduction, Uses of good and bad thermal Conductors, Convection, Radiation, Good and bad absorbers Summary: All MCQs: 1,2,3,5,6,7,8,10 Short Qs: 12,3,4,5,6,7,8,13 Comp. Qs: 1,3 Numerical: 1,2: Page 219-221

REDUCED SYLLABUS
Chemistry 9 Session 2020-21

Unit #	Unit Name	Topics	Details
1	Fundamentals of Chemistry	Chemistry & Branches Of Chemistry, Basic definitions, Chemical species, Mole & Avogadro's number, Types of molecules, Chemical calculations	• Class Work: MCQ's : 1 to 10 (page 26,27) & key points (Page24-25) • Home Work: Short Questions: Exercise 1,3,4,5, 8,9 (page 27), Long Questions: Exercise: 1,2,3, 4,5,6,7,8,11 • Numerical: Exercise 1((a) , 2,3,4,5,6(a),7(a),9(a) • Numerical Examples : 1.1 to 1.6
2	Structure of Atoms	Rutherford's experiment, conclusion & defects, Bohr's atomic model, Concept of shell & sub shell, Electronic configuration (first 18 elements), Isotopes, examples of hydrogen, carbon, uranium & chlorine, uses of isotopes	• Class Work: MCQ's : 1 to 10 (page 45,46) & key points (Page43- 44) • Home Work: Short Questions: Exercise 1,2,3,4, 5,9,10,11,12,13,14,15,16 (Page 46), Long Questions: Exercise 1,2,4,5,6,8,9 (Page 47)
	Periodic Table & Periodicity	Long form of periodic table (Features, periods & groups), Characteristics of group, shielding effect, Atomic size, ionization energy, electron affinity & electronegativity (Their trends in the periodic table)	• Class Work:- MCQ's : 1 to 10 (page 65,66) & key points (Page64) • Home Work: Short Questions: 1,2,6,7,10,11,12, 14, 15 (page 66) No long question in exercise.
4	Structure of Molecule	Octet and duplet rule, Chemical bond and its types, Polar and non-polar covalent bond, metallic bond and intermolecular forces (dipole- dipole forces and hydrogen bonding).	• Class Work: MCQ's : 1 to 10 (page 93,94) & key points (Page91-92) • Home Work: Short Questions: 2,9,11,13,18,19 Long Questions: 1,3,4,8,9,10,11
5	Physical States of Matter	Gas Laws, Evaporation, vapor pressure, boiling & melting points, density and properties of states of matter, allotropy	• Class Work: MCQ's 1 to 10 (page 119-120) & key points (page 118) • Home Work:- Short Questions: 1,2,3,5,6,7,12,17,26,28,29,31,

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Unit #	Unit Name	Topics	Details
			32,34, Long Questions: 1,2,5,6, 7, 8, 9, Examples: 5.1-5.2
6	Solutions	Terms: solute, solvent, solution, aqueous solution, dilute solution, concentrated solution, saturated, unsaturated, super saturated solution, percentage by mass, by volume molarity, molar solution and solubility.	• Class Work: MCQ's : 1 to 10 (page 139-140) & key points (Page138) • Home Work:- Short Questions: Questions:1,2,4,9,10,12,16, Long Questions: 1,2,3,5,9,10, Examples: 6.1 – 6.4
7	Electrochemistry	Definition of oxidation, reduction, redox reaction, oxidizing agents, reducing agents, rule for assigning oxidation states, electrolytes, weak electrolytes, non-electrolyte. Corrosion & its prevention, electroplating definition and methods.	• Class Work: MCQ's : 1 to 10 (page 168,169) & key points (Page167-168) • Home work:- Short Questions: 1, 2,6,7,12,14,15, Long Questions: 1, 2,6,8,12,14, Examples: 7.1 & 7.2
8	Chemical Reactivity	Metals definition, properties and uses of metals. Noble metals, Calcium magnesium and sodium uses and properties, comparison of reactivity of halogens	• Class Work: MCQ's : 1 to 10 (page 188 - 189) & key points (Page187) • Home Work: Short Questions: 1,2,3,8, Long Questions: 1,2,3, 4,5,6,7

REDUCED SYLLABUS

Biology 9 Session 2020-21

Unit #	Unit Name	Selected Topics
1	Introduction to Biology	Introduction to biology - Branches of Biology, Levels of biological organization and cellular organization
2	Solving the Biological problems	Biological Methods, Steps involved Biological deduction and recognition of problems, observation hypothesis deduction and experiment theory, law & principle, Data organization & analysis (no practical)
3	Biodiversity	Importance of Biodiversity, Classification of organisms (Aims & principles) of classification species, Five kingdom system of classification, Binominal nomenclature. (no practical)
4	Cells And Tissue	Cytoplasm, Cell organelles (Nucleus, Ribosome's, Mitochondria, lysosomes, centrioles & vacuoles), Comparison of prokaryotic & eukaryotic cells, Passage of Molecule into & but of cells diffusion, facilitated diffusion, osmosis, filtration, active transport, endocytosis, and exocytosis, Animals tissues, Plant tissue Practical: (identify form fresh preparation Nucleus mitochondria, lysome in animal cell & nucleus, chloroplast and vacuole in a plant cell)
5	Cell cycle	Cell cycle mitosis: (phases of Mitosis), Meiosis: (phases of Meiosis), Apoptosis and necrosis, Practical: Observe various stages of mitosis and meiosis through slides, model and charts.

Unit #	Unit Name	Selected Topics
6	Enzyme	Enzyme Characteristic of enzymes, Mechanism of Enzyme action. Practical: Experiment to show working of enzyme in vitro e.g. pepsin working on meat in test tube.
7	Bioenergetics	Bioenergetics and role of ATP ii) ATP the energy currency of cells, Photosynthesis: Mechanism of Photosynthesis (light reaction and Dark reaction), Respiration:
8	Nutrition	Definition of nutrition and nutrients, Major components of Human Food. Carbohydrates lipids, proteins, minerals, vitamins (including table 8.2 sources, functions and deficiency of important vitamins, Role of Liver. Practical: Microscopic examination of transverse section of the small intestine to show the villi
9	Transport	Transport in plants: waters and ion up take, Transpiration (factors affecting rate of transpiration and significance rate of transpiration) Transport of water iv transport of food, Transport in Human Blood, Blood Plasma, Blood cells, Human Heart, Pulmonary and systematic , circulation, Heart Beat and pulse viii, Cardiovascular disorders Atherosclerosis & arteriosclerosis, myocardial infections. Practical: Observe root hair on growing root of onion carrot & etc. Identify red and white blood cells under the light microscope on prepared slides and in diagrams and photo micrographs, Investigate the effect of physical activity on pulse rate.

REDUCED SYLLABUS
Computer 9 Session 2020-21

Unit #	Unit Name	Topics	Page #
1	Fundamentals of Computer	Introduction to computer	2
		Generations of computer	5, 6
		Types of computer	6, 7
		Classification of digital computer on the basis of configuration	7-9
		Components of computer system	13-20
		Basic operation of computer	24, 25
		Computer Software	25, 27
		Use of Application Software	27, 28
		Types of Software on the basis of distribution policy	29
		Class Work: Q2 (i, ii, iv) page, Q3 (i, ii, iv, v, vi), Q4 (ii, iv, v)	32
		Home Work: Q2 (v, vi), Q3 (viii, x), Q4 (vi, vii)	32
		Lab Activity: (a) & (b)	32
2	Fundamentals of Operating System	Operating System	34
		Objectives of Operating System	34
		Functions of an Operating System	35, 36
		Common Types of Operating System	36-39
		Classification of Operating System	39, 40
		Types of Operating System on the basis of processing	40-42
		System Installation	44-51
		Class Work: Q2 (i, ii, iii), Q3 (i, ii, iii, iv)	54
		Home Work: Q2 (iv, v), Q3 (i, ii, iii)	54
		Lab Activity: a (i, ii, iii)	54
			54

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Unit #	Unit Name	Topics	Page #
3	Office Automation	Word Processing	56
		Starting MS Word Software	56, 57
		Manage a Document	57-60
		Insert Symbols	65, 66
		Formatting	68-80
		Insert Header and Footer	80-86
		Creating Table	89-91
		Table Border and Shading	91, 92
		Changing Margin	95, 96
		Spreadsheet	97
		Basics of Spreadsheet	97-100
		Working with Formula and function	103-110
		Class Work: Q2 (i, ii, iii), Q3 (vi, viii, ix, xi)	119
		Home Work: Q4 (i, ii, iii, iv)	120
		Lab Activity: Cricket Match	120
4	Data Communication	Communication	122
		Basics Terms of Communication	122, 123
		Components of Communication System	123, 124
		Difference between guided and unguided media	125, 126
		Types of guided media	126, 127
		Types of unguided media	127, 128
		Communication devices	129, 131
		Communication Terminologies	131
		Class work: Q2 (i, ii), Q3 (i, ii, iv, v, vii, viii, x) page 135 & 136	135, 136
		Home Work: Q2 (iii, iv) Q3 (i, v, vi (a, d))	135, 136
5	Computer Networks	Lab Activity	135
		Computer Networks	138
		Data Transmission Modes	140
		Types of Computer Network	142-144
		Network Topology	144-146
		Generations of Technology	148
		Types of MODEM	149
		Class Work: Q2 (i, ii, v), Q3 (i, iv, v)	152
		Home Work: Q4 (ii, iii)	153
		Lab Activity	153
6	Computer Security and Ethics	Computer Security	155
		Cyber Crime	155, 156
		Computer Security Threats	156, 157
		Causes of spreading Viruses, Worms, Adware and Malware	157-160
		Computer Security Software	161
		Difference between Authentication and Authorization	161, 162
		Authentication Methodologies	162-164
		Computer Ethics	164-166
		Class Work: Q2 (i, ii, iii, v), Q3 (i, ii, iii, iv)	168, 169
		Home Work: Q3 (viii, ix, xi), Q4 (i, ii, iii, iv (i, ii, iii))	169

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تخفیف شدہ سلیبس
”اسلامیات اختیاری“ جماعت نہم برائے سال 2020-21

نمبر شمار	ایواب	عنوانات
1	القرآن الکریم	قرآن مجید کا خصوصی مطالعہ، تفسیر قرآن مجید
2	عبادت	عبادت کا لغوی اور اصطلاحی مفہوم، قرآن مجید کا تصور عبادت
3	سیرت رسول	تعلیم و تکریم، اخلاق
4	منتخب قرآنی آیات	آیات حصہ اول: آیت نمبر ایک (1) تا تین (3) آیات حصہ دوم: آیت نمبر آٹھ (8) تا دس (10)
5	حدیث و سنت (الف)	منتخب احادیث ج، حصہ اول، حدیث نمبر 1، 2، 3، منتخب احادیث حصہ دوم حدیث نمبر 12، 13، 14
6	اسلامی علوم اور مسلمانوں کی خدمات	تکمل
7	اسلام اور عصر حاضر	تکمل
8	عربی زبان گرائمر	تکمل

REDUCED SYLLABUS
Mathematics 9 (Arts) Session 2020-21

Unit No. / Topics	Contents, Exercises/class work	Exercise/ home work
Unit # 1 Percentage, Ratio & Proportion	Contents: Definition of the terms percentage, ratio & proportion. Conversion of a percentage to a fraction & Conversion of a percentage to a decimal fraction Exercise No1.1: QNo1 (iii) QNo2 (ii) QNo3 (iii) QNo4, 8, 10 & 13 Exercise No1.2: QNo1 (iv) QNo2, 5, 7 & 9 Contents: Definition of the term direct, inverse & compound proportion Exercise No1.3: QNo1, 4, 7, 10, & 15	Exercise No1.1: QNo1 (i) QNo2 (i) QNo3 (ii) QNo6, 11 & 12 Exercise No1.2: QNo1 (i, ii) QNo4, 8 & 11 Ex. No1.3: QNo2, 6, 12, & 13 Review exercise: QNo1, 3, 5 & 7
Unit # 2 Zakat, Usher & Inheritance	Contents: Definition of the terms Zakat, Nisab, rate of zakat & Usher Exercise No2.1: QNo1 & 4 Exercise No2.2: QNo1 & 3 Contents: Definition of the term Inheritance. Ratio of shares among legal inheritors of a property and calculation amount of shares Exercise No2.3: QNo2, 4 & 6	Exercise No2.1: QNo2 & 5 Exercise No2.2: QNo4 & 6 Exercise No2.3: QNo5 & 7 Review exercise QNo1, 3 & 4
Unit # 3 Business Mathematics	Contents: Definition of the terms Cost price (CP), Sale price (SP), Loss and their representation by formulae Exercise No3.1: QNo1, 3, 7, 10 & 12 Contents: Definition of the terms Discount, marked price (MP) and relation regarding discount Exercise No3.2: QNo1, 3 & 6 Contents: Definition of the term partnership and profit among partners Exercise No3.3: QNo1 & 3	Ex. No3.1: QNo4, 6, 8, 11 & 14 Exercise No3.2: QNo4 & 5 Exercise No3.3: QNo4 Review exercise QNo1, 3 & 5

Unit No. / Topics	Contents, Exercises/class work	Exercise/ home work
Unit # 4 Financial Mathematics	Contents: Definition of the terms saving account, current deposit account, fixed deposit account, foreign currency account, cheques, demand draft and pay order. Types of cheques, e-banking and modes of transaction in online banking and exchange rate. Exercise No4.1: QNo1 & 4 Contents: Definition of the terms markup, principal amount, period, interest rate and simple interest Exercise No4.2: QNo2, 4 & 7 Contents: Definition of the terms insurance, insurer, insured, insurance policy & premium Exercise No4.3: QNo1 & 4 Contents: Definition of the terms down payment & processing fee Exercise No4.4: Q1No1 & 3	Exercise No4.1: QNo3 Exercise No4.2: QNo3 Exercise No4.3: QNo2 & 3 Exercise No4.4: Q1No2 Review exercise: QNo1, 5, 7 & 9
Unit # 5 Consumer Mathematics	Content: Definition of the terms tax, direct tax, indirect tax, sales tax, excise tax, property tax & income tax Exercise No5.1: QNo1, 3 & 7 Contents: Utility bills (electricity, gas & telephone) Exercise No5.2: QNo1, 3 & 4 (ii) Contents: Definition of the terms gross income & gross salary Exercise No5.3: QNo1, 4 & 6	Exercise No5.1: QNo2, 4 & 5 Exercise No5.2: QNo2 & Q4(iii) Exercise No5.3: QNo5 & 7 Review exercise: QNo2, 4, 6 & 7
Unit # 6 Exponents & Logarithms	Contents: Definition of the terms radicals, radicands, conjugate radicals. Radicals & exponential forms Exercise No6.1: QNo3, 5 & 7 Contents: Definition of the terms base & exponent. Laws of exponent & their application Exercise No6.2: QNo2, 5, 9, 12 & 14 Contents: Definition of the term scientific notation Exercise No6.3: QNo1 (ii, iii) QNo2 (i, iii) & QNo3 (ii) Contents: Definition of the terms logarithms, common logarithms, characteristic and mantissa Exercise No6.4: QNo1(ii, iv, vi) QNo2 (i, iv, vi) QNo3 (i, iii, vi) Content: Application of logarithms Ex. No6.5: QNo1(i, iv, vii) QNo2 (ii, iv) QNo3 (i, iii, v)	Exercise No6.1: QNo4, 6 & 8 Exercise No6.2: QNo4, 6, 8 & 13 Exercise No6.3: QNo1(i) QNo2 (ii) & QNo3 (i, iii) Ex. No6.4: Q1(iii, v) QNo2 (ii, v) QNo3 (iv, vii) Exercise No6.5: QNo1 (iii, ix) QNo2 (i, v) QNo3 (iv, vi) Review exercise: QNo1, 3 & 4
Unit # 7 Arithmetic & Geometric Sequences	Content: Sequence & its terms Exercise No7.1: QNo1 (ii, iv, vii) QNo2 (ii, iii) Contents: Arithmetic sequence & general term of arithmetic sequence Exercise No7.2: QNo1 (i, iii) QNo2, 4 & 6 Content: Arithmetic mean Exercise No7.3: QNo1 (i, iii) QNo2, 4, 7 Content: Geometric sequence and its general term Exercise No7.4: QNo1, 3 & 6 Content: Geometric mean between two numbers Exercise No7.5: QNo1(iii) & QNo2	Exercise No7.1: QNo1 (iii, v, viii) QNo2 (i) Ex. No7.2: QNo1 (ii) QNo3 & 5 Exercise No7.3: QNo1 (ii) QNo3 & 5 Exercise No7.4: QNo4, 7 & 9 Exercise No7.5: QNo1(i, ii) & QNo3 Review exercise: QNo1, 2, 5 & 8
Unit # 8 Sets & Functions	Contents: Definition of the terms sets of natural, whole, integers, even, odd, prime numbers & rational numbers. Union, intersection and complement of sets. Properties of union & intersection of sets. Use of Venn's diagram to represent properties of union & intersection of sets and verification of De Morgan's laws Exercise No8.1: QNo1 (i, ii) QNo2 (i) QNo3 (ii), QNo4	Exercise No8.1: QNo1 (iii) QNo4 (b) QNo5 (iii)

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Unit No. / Topics	Contents, Exercises/class work	Exercise/ home work
	(a) QNo5 (ii) Contents: Definition of the terms Cartesian product of sets, binary relation, domain, range and functions Exercise No8.2: QNo1, 3, 5, 6 (ii, iv) & QNo7 (i)	Exercise No8.2: QNo4 6 (i, iii, v) & QNo7 (ii) Review Ex: QNo1, QNo5, 8 & 11
Unit # 10 Basic Statistics	Contents: Definition of the terms frequency distribution and histogram Exercise No10.1: QNo2 Contents: Definition of the terms ogive, arithmetic mean, median, mode, geometric mean, harmonic mean, moving average and quartiles Exercise No10.2: QNo1(ii) QNo3, 5, 10 & 12 Contents: Definition of the terms range, variance and standard deviation	Exercise No10.1: QNo1 Exercise No10.2: QNo1(iii) & 9 Review exercise: QNo1

تخفیف شدہ سلیبس

جنرل سائنس جماعت نہم برائے سیشن 2020-21

سبق نمبر	سبق کا عنوان	شمارہ نمبر	منتخب موضوعات	صفحہ نمبر
1		1.1	سائنس کی اہمیت	
		1.1.1	سائنس کیوں دوسرے علوم سے مختلف ہے؟	
		1.2	انسانی تجسس اور معاشرتی ترقی	
		1.3	سائنسی جدت اور ترقی	
		1.4	سائنس کے میدان میں مسلم سائنس دانوں کا کردار	
		1.7	سائنس کی مختلف شاخیں اور ان کا تعلق	
		1.8	سائنس اور ٹیکنالوجی کا کردار	
		2.1	روزمرہ استعمال کی اشیاء کی کیمیائی ترکیب	
2	کیمیا اور زندگی	2.2	عناصر اور مرکبات کی طبعی اور کیمیائی خصوصیت (مکمل)، پٹرول اور ڈیزل کی طبعی اور کیمیائی خصوصیات، ایلو مینیم کی ری سائیکلنگ، پلاسٹک کی ری سائیکلنگ، ربڑ کی ری سائیکلنگ، ہماری زندگی اور ماحول پر کیمیائی مصنوعات کے اثرات، کھاد کے اثرات، کرم کش ادویات کے اثرات، کلورو فورم کاربن گیس کے اثرات	
		2.5	کیمیائی تبدیلی اور اس کی عام مثالیں	
		3.1	صحت، غذا کی زیادتی اور موٹاپا	40-41
3	صحت، بیماریاں اور ان سے بچاؤ	3.6	صفائی اور صحت کی اہمیت	43
		3.7	خون اور اس کے اجزائے ترکیبی، انیہا، ہیموگلوبن	48-50

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سبق نمبر	سبق کا عنوان	شمارہ نمبر	موضوعات	صفحہ نمبر
		3.9	بیماریاں ان کی وجوہات اور بچاؤ	
		3.9.1	بیکٹیریا سے لاحق ہونے والی بیماریاں، ذیابہ	
		3.9.2	وائرس سے پھیلنے والی بیماریاں، فنجائی سے لاحق ہونے والی بیماریاں	58-59
		3.1.1	بیماریوں کے علاج کے لیے جدید تحقیق ترقی	76, 68, 66
		9.1	حاصلات تعلیم، انسانی آبادی میں اضافہ	72-75
4	آبادی اور ماحول	9.2	زمین کی تباہ کاریاں، غربت اور زندگی کا معیار، کثرت آبادی اور پائے دار ترقی	
		84-87	توانائی کے ذرائع اور ان کی اہمیت	5.1
			ہائیڈروجن، بیورو ایندھن	5.4
		94-95	توانائی کی پیمائش	5.5
			توانائی کا تحفظ	5.7
5	توانائی کے ذرائع		پاکستان میں فوسل فیول کی سالانہ پیداوار اور غیر روایتی توانائی کے ذرائع	5.8

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تخفیف شدہ سلیبس
شہریت جماعت نہم برائے سیشن 2020-21ء

سبق نمبر	سبق کا نام
۱	علم شہریت کا تعارف
۲	شہریت
۳	معیشت میں حکومت کا کردار
۶	میڈیا (ذرائع ابلاغ)
۷	ماحولیاتی تحفظ

تخفیف شدہ سلیبس

ہوم آکٹا کس جماعت نہم برائے سیشن 2020-21ء

سبق نمبر	سبق کا نام
۲	غذا اور غذائیت کا تعارف
۳	کھانوں کی تیاری
۵	بچوں کی نگہداشت اور نشوونما کا تعارف
۶	نشوونما کی خصوصیات
۸	انسانی نشوونما میں خاندان اور معاشرے کا کردار

تخفیف شدہ سلیبس

آرٹ اینڈ ماڈل ڈرامیٹک جماعت نہم برائے سیشن 2020-21ء

سبق نمبر	سبق کا نام	منتخب عنوانات
۱	فائن آرٹس	کمل سبق
۲	آرٹ کے بنیادی عناصر اور اصول	کمل سبق
۳	مٹل لائف	مٹل لائف / ماڈل ڈرامیٹک
۴	کمپوزیشن	کمپوزیشن
۵	ڈیزائن	- ڈیزائن کی تعریف - ڈیزائن کی تشریح - ڈیزائن کے ترکیبی عناصر - ڈیزائن کے اصول

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