PABSON Kathmandu, Syllabus- 2067

Subject: Nepali

Class: 9

First Term			Mid Term			Second Term			Final Term		
विधा	पाठ शीर्षक	घण्टी	विधा	पाठ शीर्षक	घण्टी	विधा	पाठ शीर्षक	घण्टी	विधा	पाठ शीर्षक	घण्टी
कविता	वसन्त	६	संवाद	मानिस सबै एकै हौं	७	दैनिकी	उपत्यकामा चार दिन	६	कथा	खड्कबहादुर	७
कथा	शिशिर र वसन्तको कथा	७	कविता	भिखारी	८	जीवनी	स्वामी विवेकानन्द	७	निवेदन	वनविनास रोकौं	५
निबन्ध	हाम्रो देश हाम्रा अतिथि	७	कथा	भविष्य निर्माण	७	वक्तृत्ता	अपाङ्गहरूप्रति हाम्रो दायित्व	७	जीवनी	चार्ल्स डार्विन	९
चिठी	भान्जालाई चिठी	५	जीवनी	भीमसेन थापा	८	कविता	सत्य सन्देश	७			
जीवनी	साहित्यकार पारिजात	८	निबन्ध	मौरीपालन	७						

(द्रष्टव्य: कक्षा ९ को नेपाली विषयको प्रश्नपत्र निर्माण गर्दा परिमार्जित पाठ्यक्रम र विशिष्टीकरण तालिकाको आधारमा गर्नुपर्नेछ। विशेष गरी व्याकरणका प्रश्नहरू निर्माण गर्दा कक्षा ९ को पाठ्यपुस्तकमा समावेश भएका व्याकरण तत्वलाई पनि ख्याल गर्नुपर्नेछ। माथि दिइएका पाठगत घण्टी अनुमानित घण्टी मात्र भएकाले स्वअनुकुल बनाउन सकिनेछ र बाँकी समय व्याकरण शिक्षण र पुनरावृत्तिका लागि प्रयोग गर्न सकिनेछ।)

Note:- First Term:– 100% from taught lessons. Mid Term:- 40% from First Term and 60% from current course. Second Term:- 30% from 1st Term, 30% from Mid Term, 40% from current course. Final Term:- Overall Test.

PABSON Kathmandu, Syllabus- 2067

Subject: Office Practice & Accountancy

Class: 9

SN	First Term	Days	SN	Mid Term	Days	SN	Second Term	Days	SN	Final Term	Days
1	Office	8	1	Correspondence	18	1	Business Organization	25	1	Government Accounting	5
2	Office Personnel	8	2	Postal Service	5	2	Subsidiary book	10	2	Meeting & Minute	7
3	Office Resources	7	3	Records	5	3	Revision	13	3	Trial Balance (Revision) not mentioned in syllabus	10
4	Book Keeping	8	4	Ledger	10				4	Revision	15
5	Journal Entry	10	5	Revision	17						
6	Revision	11									
	Total	52		Total	55		Total	48		Total	37

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PABSON Kathmandu, Syllabus- 2067

Subject: C. English

Class: 9

Units	First Term	Units	Mid Term	Units	Second Term	Units	Final Term
	Before you begin	7	Cycle competition, "Film review", Giving directions	13	Grandfather's Photograph, "The Joy of Being A Live"	18	In the desert: The Biscuits, Budhanilakantha Army Camp, Work in progress
1	Travel and holiday, "Touch", Holiday Plans, Expressing intentions, weather report	8	My Little Sister, Borrowing a video, Ability	14	Farming, You shouldn't have……	19	The Panda, The environment
2	Lokesh leaves home, The punishment should fit the crime, Planning a day out, Have about +v ing	9	Smoking, queuing, fellowship application, "A Suitable Boy", Apology for an accident	15	Buying a house, "Leisure", Keeping it fit, Unreal Past	20	Paracetamol, "Rain Sizes", Project works, What do you do? I'm a student, Conversation between two ladies, Routine work
3	"That Little China Chip", "Dance?", Buying things	10	Cooking breakfast, "Nelson Mandela is free", Helping a tourist,	16	Noisy neighbors, "The Rivals", There is no doubt……., It is certain that……, Conservation in Nepal, Main and Subordinate clauses		Grammar, Guided writing, Free writing
4	Message of condolence, Flood toll reaches 88 in Bangladesh, An accident	11	"The Donkey Boys", A new radio	17	"A Mother's warning", "Rickshaw ride", Travels round Nepal		
5	Message of Congratulation, Biography of Mahabir Pun, congratulation on your success!, Expressing congratulation	12	"The Kathmandu Express", Two boys go for a walk, The Apollo 11 Mission		Grammar, Guided Writing, Free writing		
6	Mouth-to-Mouth resuscitation, "Madam and her Madam", A recipe		Grammar, Guided writing, free writing				
	Grammar, Guided writing, free writing						

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PABSON Kathmandu, Syllabus- 2067

Subject: Science

Class: 9

Units	First Term	T.P	Mid Term	T.P	Second Term		Final Term	T.P
Physics	**1) Measurements and Units** - Fundamental Units and Derived Units **2) Force** - Motion, force, inertia - Equations of motion - Newton's Laws of motion	**6** **12**	**1) Machines** (Principle of moment, Mechanical advantage, Velocity Ratio, Efficiency) **2) Work, Energy and Power** (Types of energy, Relation between work, energy and power)	**8** **7**	**1) Sound** (Sources, nature, refraction, intensity, pitch and velocity) **2) Light** (Refraction, nature, electromagnetic wave and its spectrum)	**6** **10**	**1) Electricity and magnetism** (Ohm's law, Resistance, Magnetic Field, Magnetic Lines of Forces, Geo-magnet)	**14**
Chemistry	**1) Valency and Molecular Formula** (Simple concept of valency and Molecular formula) **2) Chemical reaction** (Introduction**)**	**8** **7**	**1) Ionization** (Electrolyte and Non electrolyte, Electrolysis Ionization) **2) Solubility (**Saturated, Unsaturated and Supersaturated solution; solubility, relation between solubility and temperature)	**8** **6**	**1) Some gases** (H_2, O_2, N_2-their preparation and uses) **2) Metals** (Characteristics, differences between metals and nonmetals)	**8** **3**	**1) Carbon and its compounds** (Introduction, physical and chemical properties, Organic and Inorganic compounds).	**4**
Biology	**1) Classification of animals and plants** (Non-flowering plants and invertebrates) **2) Invertebrates** (Mosquitoes and silkworm structure and lifecycle	**8** **7**	**1) Adaptation** (Adaptation of animals and plants) **2) Tissues and Organs** (Cell, tissues, organ, system -- introduction and their relations)	**6** **10**	**1) Human skeleton system** (Functions and their classifications) **2) Evolution** (Introduction, theories and evidences)	**7** **6**	**1) Sense Organ** (Introductions, types and functions) **2) Ecosystem** (Components, introduction, affecting factors, Biotic and Abiotic factors, Human dependence on others)	**8** **9**
Geology + Astronomy	**1) Natural Disasters** **Revision**	**6** **3**	**1) Earth in Universe** **Revision**	**7** **5**	**1) Moon in universe** (Eclipses) Revision	**5** **4**	**Revision**	**12**

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PABSON Kathmandu, Syllabus- 2067

Subject: Social Studies

Class: 9

		First Term	E.P.	Mid Term	E.P.	Second Term	E.P	Final Term	E.P
S.N.	Topics								
1	We, Our Community and Nation	1.1) Development and Concept of Human Development	5	Condition of Human Development in Nepal	3	1.2) Sustainable Development	7		
2	Infrastructures and Development	2.1) Infrastructures of Development ➢ Education	5	2.1) Communication, Electricity	5	Health	4	2.1) Drinking Water	5
3	Our Traditions, Customs, Social Values and Norms	3.1) Our Customs and art ➢ Handicraft ➢ Chitrakala ➢ Architecture	4	3.2) Secularism	3	Sculpture	5	3.3) Contributions made by National Heroes.	5
4	Social Problems, Evils and Solution	4.1) Social problems, recognition and solution	4	4.2) Contributions of local and International Organizations in Social Service	7	4.3) Attempts made for social development	7		

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5	Civil Sense	5.1) Development of constitution in Nepal	5	5.2) Features of present constitution of Nepal. 5.3) Fundamental Rights granted by present constitution.	10	5.4) Good Administration and Stability (role of civil societies)	7	5.5) Unity in Diversity	5
6	Our Earth	6.1) Effects of Longitude on Time and Date. 6.4) Map work (Nepal's map) 6.3) Asia (Map work)	10	6.2) Geography and climate of Nepal and its effect on Human Life 6.3) Europe	8	6.3) Australia	5	Comparative study of Asia, Europe Australia and Nepal	3
7	Our Past	7.1) Innovation, Study, utility of Historical Sources	6	7.2) Unification campaign of Nepal	10	7.3) Contribution of Nepalese Warriors 7.5) Effect of Industrial Revolution on Human Society	8	7.4) Starting of Rana Rule, causes of its end and it's effect on Social and Economic Aspects.	7
8	Economics Activities	8.1) Relation among Agriculture Industry and Trade 8.5) Economic planning and review of previous plan.	7	8.2) Important of Agriculture in Nepal ➢ Its problems and measures of Development	7	8.3) Important of Industry in Nepalese Economy ➢ Problems and measures of Industrial Development	8	8.4) Importance of Trade in Nepal ➢ Problems and measures of Trade Development	7
9	International Understanding Peace and Co-operation	9.1) Relation and Understanding among SAARC countries	7	9.2) Bilateral and multilateral Relation of Nepal with Donor Countries Canada, Italy and Germany	7	9.3) Contribution of Nepal for Establishing Peace in the world 9.4) Role of Nepal in UNO.	5	9.5) Effect of current world Affairs on Human Life.	5

Note: Syllabus has been terminally divided depending on working days as mentioned in PABSON Academic calendar.
Questions for term exam are to be set according to the previous S.L.C. grid until the new grid from CDC is issued.
No. of periods as mentioned above are just estimated. So, subject teacher can run the course as his/her convenience and need.

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PABSON Kathmandu, Syllabus- 2067

Subject: Environment, Population and Health

Class: 9

		First Term	E.P	Mid Term	E.P	Second Term	E.P	Final Term	E.P
SN	**Topics**								
1	**Concept of Health, Population and Environment Education**	**1.1) Concept of Health, Population and Environment** ➢ **Need and Importance of Health, Population and Environment Education**	**4**	**1.2) Scope of Health, Population and Environment Education.**	**2**	**2.3) Interrelation of Health, Population and Environment Education.**	**4**		
2	**Family Life Education**	**2.1) Responsibilities of Parents in Family Life**	**3**	**2.2) Marriage**	**3**	**2.3) Family Planning.**	**3**	**2.4) Ageing**	**3**
3	**Determinants and Consequences of Population change and population management**	**3.1) Factors Affecting Population change**	**4**	**3.2) Consequences of Rapid Population Growth**	**4**	**3.3) Population management**	**4**		
4	**Natural Resources**	**4.1) Concept of Natural Resources**	**4**	**4.2) Types and Status of Natural Resources**	**4**			**4.3) Conservation of Natural Resources**	**4**
5	**Care of the Earth**	**5.1) Introduction to care of the Earth**	**4**			**5.2) Man and the Earth**	**4**		
6	**Environmental Health**	**6.1) Concept of Environmental Health**	**4**	**6.2) Pollution and Pollution Management**	**4**	**6.3) Solid waste management**	**4**	**6.4) Drainage system and management of Human Excreta**	**4**
7	**Adolescence, Sexual and Reproductive Health, Safe motherhood**	**7.1) Adolescence** ➢ **Introduction** ➢ **Need** ➢ **Problems** ➢ **Measures**	**6**	**7.2) Sex Education and Reproductive Health**	**6**	**7.3) Safe motherhood**	**6**	**7.4) Maternal and Child Health Care.**	**6**
8	**Consumer Health**	**8.1) Concept of Consumer Health**	**2**	**8.2) Quality Food**	**2**	**8.3) Protection of Consumer Health**	**2**	**8.4) Harmful Products**	**2**
9	**Primary Health Care and Safety Education**	**9.1) Primary Health** ➢ **Introduction** ➢ **Importance** ➢ **Elements**	**3**	**9.2) Safety Education**	**3**	**9.2) Introduction to First Aid**	**1**	**9.3) Methods of First Aid Treatment**	**3**

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Prepared by:- PABSON Kathmandu District

PABSON Kathmandu, Syllabus- 2067

Subject: C. Mathematics

Class: 9

		First Term	Mid Term	Second Term	Final Term
SN	**Topics**	**Content**	**Content**	**Content**	**Content**
1	**Set**	Review Operation on sets Solution of word problems which contain two sets and their Venn-diagram			
2	**Arithematic**	Unitary method (related to direct and inverse variation, compound ratio and proportion)	➢ Ingredients ➢ Percentage	Commission, Tax and Bonus Simple interest	Home Arithematic (meter reading of electricity & water and calculating the cost, Telephone bills and money exchange)
3	**Mensuration**	Problems related to area (carpeting, colouring and plastering) and cost estimation	➢ Area of path running outside and inside of rectangle, square, circle and cost estimation of paving marbles, bricks or others works ➢ Area of cross section, surface area and volume of cube and cuboids	Number of bricks required to construct wall and their cost estimation.	
4	**Algebra**	➢ Factorization of the form $a^2 - b^2$, $a^3 + b^3$, $a^3 - b^3$, $ax^2 + bx + c$, $a^4 + b^4$ and $a^4 + a^2b^2 + b^4$ ➢ Problems related to indices (Simplification of term having positive and negative index)	Exponential equation, simple problems related to ratio and proportion	Solution of Simultaneous equation (substitution method, elimation method and graphical method) Solution of simple inequalities of two variables and their region in graph	Solution of quadratic equation (factorization method, method of completing a square and method if using formula)

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5	**Geometry**	Triangle: ➢ Sum of three angle of a triangle ➢ Relation of ext. angle and the interior angle which are non adjacent to the ext. angle ➢ Sum of two sides is always greater then third side (experimental verification only) ➢ Relation of angle opposite to greatest and smallest side (experimental verification only) ➢ Shortest distance from a point to a line is perpendicular to the line (only concept) ➢ Pythagoras Theorem & its converse (experimental verification only) ➢ Base angles of isosceles triangles and their relations ➢ If any two angles of triangle are equal it is an isosceles triangle with its base ➢ Relation of the bisector of vertical angle of an isosceles triangle with its base ➢ Relation of the line joining the vertex and mid point of the base with base and vertical angle ➢ Mid parallel theorem ➢ Relation of the line joining the mid points of two sides with remaining side of the triangle	Parallelogram: ➢ Lines joining the end points of same sides of equal and parallel lines are also equal and parallel ➢ Opposite sides of parallelogram are equal ➢ Opposite angles of parallelogram are equal ➢ Diagonals of parallelogram bisect each other ➢ Converse of above theorems	Similarity, Similar triangle and polygon	➢ Circle ➢ Relation of chord and its perpendicular from centre. ➢ Relation of line joining the centre and mid point of chord with the chord of a circle. ➢ Relation of centre and the perpendicular bisector of chord of a circle. ➢ Relation of equal chords and their distance from centre construction. Construction of triangle and quadrilaterals (rectangle, square, parallelogram and trapezium)

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6	Trigonometry	➢ Introduction of trigonometrical ratios with the reference angle of rt. angle triangle ➢ Trigonometrical ratios of sine, cosine and tangent and their measurement	➢ Trigonometrical ratio of the angles of sine, cosine and tangent (O^0, 30^0, 45^0, 60^0 & 90^0) and its use ➢ From right angle triangle value of O^0, 30^0, 45^0, 60^0 & 90^0 (sin, cos, tan)		
7	Probability		Definition, probability scale and use of probability, theoretical and empirical probability, probability of an experiment and probability of an event		
8	Statistics			➢ Cumulative frequency, line graph, pie chart, histogram and give (introduction & construction) ➢ Median and quartiles by using the cumulative frequency curve (ungrouped data) ➢ Mean, Median, mode and quartiles of ungrouped data	

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PABSON Kathmandu, Syllabus- 2067

Subject: Opt. Mathematic

Class: 9

		First Term		Mid Term		Second Term		Final Term	
S.N	**Topics**	**Content**	**T.P**	**Content**	**T.P**	**Content**	**T.P**	**Content**	**T.P**
1	**Algebra**	Relation and functions: - Introduction to pair and ordered pairs. - Distinguish between ordered pairs and sets. - Cartesian product of two sets - Introduction to relation - Types of relation - Representation of relation in arrow diagram, tree diagram, table, and graph. - Introduction to function - Test of a function (vertical line test) - Representation of function in arrow diagram and graph - Types of function (into, onto, one-one, many-one)	**10**					Polynomials: -Introduction to Algebraic term, Algebraic expression and polynomials -Degree and standard form of polynomial -Equal polynomial -Types of polynomial on the basis of degree and terms -Operation of polynomials (addition and subtraction)	**6**

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2	**Matrix**	-Definition of matrix - order/dimension of matrix - Notation of a matrix and its elements. - Types of matrices (row, column, rectangular, square, diagonal, identify, null, scalar, symmetric, triangular, equal) -Addition of matrices - Properties of matrix addition - Subtraction of matrices - Multiplication of a matrix by a real number - Transpose of a matrix	**10**						
3	**Trigonometry**	- Measurement of angles - Relation between the system of measurement - Problem related to polygons - Theorem on circular measure - Theorem of arc length and radius with angle at the center of circle - Trigonometrical ratios	**13**			-Identity relation of trigonometric ratio -Conversion of trigonometrical ratios -Trigonometrical ratios of some special angles $(0^0, 30^0, 45^0, 60^0, 90^0)$ -Trigonometrical ratios of $90^0 \pm \theta, 180^0 \pm \theta, 270^0 \pm \theta, 360^0 \pm \theta$ -Graph of Trigonometric function $\sin\theta, \cos\theta and \tan\theta$	**20**		
4	**Transformation**	- Introduction to transformation - Isometric and non-isometric transformation - Identity transformation, invariant point. - Reflection about x-axis, y-axis y=x, x=h and y=k line - Rotation with centre at(0,0) $(\pm 90^0, \pm 180^0, \pm 270^0)$	**10**			-Translation of geometrical shapes by translation vector T -Enlargement with centre at origin and scale factor k - Enlargement with centre at (a,b) and scale factor k -Nature of image under the different values of k.	**10**		

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5	**Statistics**							-Introduction to dispersion -Range and coefficient of range -Quartile deviation and its coefficient -Inter quartile range	**12**
7	**Surds**			-Number system -Definition and types of surds - Operation on surds - Rationalization - Equations involving surds.	**10**				
8	**Co-ordinate Geometry**	- Distance between two points - Section formula: Internal Section formula External Section formula - Mid point formula - Centroid formula	**10**	Locus: -Equation of straight line -Slope intercept form - Double intercept form - Perpendicular form	**20**	-Distance of a point from a straight line -First degree equation -Reduction of first degree equation in three standard forms - Point –slope form of a straight line - Two points form of a straight line - Area of triangle and quadrilateral	**12**		
9	**Sequence and series**							-Introduction to sequence and series -Draw figures of same pattern -General term(n^{th} term) of a sequence	**8**
10	**Vector**			-Introduction to vector -Representation of vector -Magnitude of a vector -Direction of a vector -Types of vector (row, column, position, null, equal, negative) -Multiplication of a vector by scalar -Operation of vectors -Addition and subtraction of vector -Condition for parallel vectors	**12**				

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PABSON Kathmandu, Syllabus- 2067

Subject: Computer
Class: 9

First Term	Mid Term	Second Term	Final Term
I. Fundamentals of Computer Science a. Introduction, History and Generation of computer b. Computer Hardware System Input unit, processing unit and output unit (IPO system) and transfer unit. Mother board, processor, RAM, cache memory, ROM ,PORT, BUS, SLOT, c. Computer Software System software / Application software / Language Processor, 3. HTML → Introduction of HTML, WEB site, Web Browser, Internet, Home page, Web Server, Work station, →HTML tags and attributes, →HTML structure →Formatting the text →Presenting the content on a table, form and frame →Managing the layout →Managing the linking mechanism →Inserting the image 4. Programming Language Qbasic Qbasic interface General concept about qbasic environment(CUI based, menu driven, has its own compiler and interpreter, executable in two modes, features) Data types, character set (alphabets, digits, white space, special symbol--? ‘ : ; , . $ ^ * () + = / \ ! # % & “” > < <> <= >=) Operators (assignment operator = / string operator + / Arithmetic operator + - * / | Mod ^ ( ) relational operator = <> < > <= >= Logical operator AND OR NOT) Operand and expression(mathematical , logical string)	1. e. Secondary Storage Devices Magnetic storage device(magnetic tape, floppy disk, hard disk, zip disk) Optical storage device(CD -ROM, CD- RW DVD-ROM, DVD RW) PEN DRIVE Smart card Track, sector and cylinder, side 0/1 1.f. Number System Conversion binary to decimal and vice versa, Binary operation IN 4 BASIC mathematical operator, Bit, Nibble Bytes, Words 1.g. Impacts of computer in society +Ve and –ve impacts of computerization on an individual, organization and country 1.h. Information Technology policy 2000 2. Operating System Introduction of OS Single user single tasking environment Multi user multi tasking environment Network operating system Booting, boot sequence, boot strap, boot record, FAT, disk, drive, file name, filename extension, wild card, error message, prompt, directory/folder main directory root directory current directory default directory parent directory, sub/child directory, internal and external command, system file(s), path specification, syntax Role of autoexec.bat and config.sys file a. MS-DOS Commands: dir, copy, ren, del, cls, path, prompt, copy con, type, cd, md, rd, vol, ver, Edit, format, diskcopy, sys, fdisk, deltree,date, time, b. Windows 2000 Introduction to GUI OS Desktop, icon, shortcut, task bar, dialog boxes, GUI controls, mouse pointer and its activities, application window and document window 4. Programming Language Qbasic Implicit and explicit variable declaration data type declaration $,!,#,&,%, &h, &o,	1. i. Computer Devices Input devices: Keyboard, Mouse, Scanner, Track Ball, Touch Pad, JoyStick, barcode and barcode reader, smart card, digital camera, Microphone, Digitizer, Output devices: Monitor, Projector, Printer, Speaker, graphic plotter, 1.j. IT policy 2057 4. Programming Language Qbasic Use of multiple loop Use of loop and decision construct combine, Array declaration and use, single or two dimensional array(array variable, array elements, array variable index) Sorting and searching array elements. • Revision of courses	SDLC(system Analysis, system designing, detail designing, Coding and debugging, testing, implementing, maintenance and up gradation) Device driver, utility software 4. E-Governance E-business, E-Learning, E-Mail Tele- Medicine, Voice conference, Video conference, E-Banking, E-reservation 5. Project Work + Revision

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Sequence construct and single looping construct using cls, input, print, end statement, goto, if… then …else…endif, for … next, while … wend and do… loop Revision of course	String related library function →asc(), chr$(),left$(), mid$(), right$(), string$(), str$(), ltrim$(), rtrim$(),space$(), lcase$(), ucase$(), inkey$(), date$(), time$() Mathematical library function→abs(), sgn(), int(), cint(), fix(), sin(), cos(), tan(), log(), exp(), sqr(), tab(), spc(), locate(), Syntax of cls, print, input, end ,let , swap, rem, const statement Use of Read ……Data Control statement : If … then… statement….elseif….then….elseif….then…else….endif On x gosub a, b, c On x goto ab,bc,cd select case case ….. Case else …… end select • Revision of courses		

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