

PABSON Kathmandu, Syllabus- 2067

Subject: Nepali

Class: 10

First Term			Mid Term			Pre-Send Up Test		
विधा	पाठ शीर्षक	घण्टी	विधा	पाठ शीर्षक	घण्टी	विधा	पाठ शीर्षक	घण्टी
कविता	प्रश्नोत्तर	८	मनोवाद	काम खोज्दै जाँदा	७	कविता	सहिदहरूको सम्झनामा	७
कथा	कर्तव्य	७	कविता	वैशाख	८	कथा	न्यायको पक्ष	७
निबन्ध	जयभोलि	७	कथा	दोषी चश्मा	७	प्रबन्ध	यन्त्रमानव	८
जीवनी	जयपृथ्वीबहादुर सिंह	७	प्रबन्ध	मिथिला चित्रकला	८	एकाङ्की	घरको माया	६
चिठी	व्यापारिक चिठी	७	जीवनी	इमानसिंह चेमचोड	७	जीवनी	नेल्सन मण्डेला	८
			वादविवाद	भाग्यभन्दा परिश्रम ठूलो	७			
	व्याकरण			व्याकरण			व्याकरण	

(द्रष्टव्य: कक्षा १० को नेपाली विषयको प्रश्नपत्र निर्माण गर्दा नयाँ पाठ्यक्रमअनुसारको परिमार्जित विशिष्टीकरण तालिकाका आधारमा पार्नुपर्नेछ। माथि दिइएका पाठगत घण्टीहरू अनुमानित घण्टी मात्र भएकाले स्वअनुकूल बनाउन सकिनेछ र बाँकी समय व्याकरण शिक्षण र पुनरावृत्तिका लागि प्रयोग गर्न सकिनेछ।)

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PABSON Kathmandu, Syllabus-2067

Subject: Office Practice & Accountancy

Class: 10

SN	First Term	Days	SN	Mid Term	Days	SN	Pre-Send Up	Days
1	Office Procedure	10	1	Financial Institution	25	1	Journal Voucher with petty Cash Fund	15
2	Filing and Indexing	15	2	Final Account	15	2	Bank Cash Book	7
3	Trade	15	3	Government Accounting (Theory)	10	3	Budget Sheet	7
4	Trial Balance	7	4	Revision	5	4	Monthly Statement	7
5	Revision	5				5	Revision	12
	Total	52		Total	55		Total	48

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PABSON Kathmandu, Syllabus- 2067

Subject: C. English

Class: 10

U	First Term	U	Mid Term	U	Pre-Send Up
1	Weather, Parsa Wildlife Reserves, Village of town of tourist interest, Exchanging information, So do I, Neither do I	8	Generation gap, Nature conservation, you can.... But you mustn't	16	Health, Tuberculosis in SAARC countries, Remedies for Flu, The table shows that....., According to the diagram/chat...
2	Courage of a blind girl, Learning the English language	9	NBL Parsa.... Etc, Village life, Save the trees, He told me (that) he was leaving.	17	A payment greater than money, Directing a tourist, My village
3	Hailstorm, Describing an accident, Lost child Revision 1 Computers	10	Interview, Town/village life, Personal memory, Gita asked me where Hari was; The girl asked if Hari was at home.	18	First day at school, Wildlife conservation, The NA and conservation
4	Personal problem,(though, although, even though, however, in spite of, despite), career, Why did you walk into the room? I walked into the room because.....	11	Cultural differences, Women's empowerment, I'm not allowed to stay at home on Sundays Revision 3 Higher studies, computer	19	An accident, Biographies, Snow fell on the hill, Pangre does not sleep at night, etc.
5	Culture, Where the Mind is without fear, Festivals, Safe motherhood, If you smoke, you will get cancer.	12	Rumour, pets, animal rights, Begging, I prefer tea to coffee, My dog likes being washed.		After you finish
6	Career, Knowledge, Learning, Preferences, If sita could sing, She would..... Had you worked hard, you would have.....	13	Florence Nightingale, I have lived in the mountains since my birth.		Grammar, Guided writing, Free writing
7	Breast feeding, Although formula, Manufactures advertise....., Unexpected results Revision 2 (Most important people, food, You shouldn't have....., I don't like being laughed at, If you help others, they will help you.)	14	Childhood, Where the Rainbow Ends! Live and let live, party, She told Hari not to sit there		Remedial Teaching
		15	Hostel, bus, zoo, My trip to Ilam, The dangers of smoking Revision 4 Examination, Troublesome child, He asked Manoj to bring the book; She asked me who I was and why I was there; you are not allowed to go in there.		
			Grammar, Guided writing, Free writing		

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PABSON Kathmandu, Syllabus- 2067

Subject: Science

Class: 10

Units	First Term	T.P	Mid Term	T.P	Pre-Send Up Test	T.P
Physics	1) Force (Gravity and Gravitation, Newton's Law of Gravitation, Acceleration due to gravity, mass and weight, free fall and weightlessness)	8	1) Heat (Heat and Temperature, effect of heat & temperature, specific heat capacity, heat equation,)	4		
	2) Pressure (Liquid pressure, Pascal's law, Archimedes principle, Law of flotation, Liquid & Upthrust)	8	2) Light (Lenses and their uses, defects of sight, camera, microscope & telescope)	7		
	3) Energy (General concept, sources of energy, their utilities, ultimate source of energy, energy crisis & saving, energy conservation)	5	3) Electricity and Magnetism (Effects of electric current, Electromagnetic Induction, Electric Motor, Generator, Dynamo, Transformer and their uses, Fuse & house wiring, Electricity billing)	11		
Chemistry	1) Classification of elements (Periodic Law, Periodic Table, Position of element, valency & reactivity)	6	1) Some gases (Co ₂ & NH ₃ -Lab preparation, properties and uses)	5	1) Acid, Base and Salts (Properties and uses of acid base and salt, P ^H scale, indicator)	3
	2) Chemical reactions (Types and rate of chemical reactions, factors affecting chemical reactions, information from chemical equation, catalyst)	6	2) Metals (General Properties of metals & non-metals, An Introduction, properties & utilities of: Iron, Aluminum, Copper, Silver, Gold)	6	2) Materials used in our daily life (Cement, Glass Fiber, Ceramics, Plastics, Soap, Detergent, Insecticides, fertilizer & chemical pollution)	7
	3) Hydrocarbon and its Compounds (Hydrocarbon, methane, ethane, propane, butane, alcohol, glycerol, ether)	3				

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Biology	1) Stimulation and reaction (Brain, nerves—their function, reflex action, Hormones in human body, stimulation/reaction in animals and plants)	6	1) Cell division (Somatic cell division and meiosis cell division, importance, differences)	7	1) Classification of animals and plants (flowering plants-up to subdivision, Vertebrates up to class)	3
	2) Virus (Nature, feature and mode of transmission, Effects and ways to control of common cold, mumps, measles, polio, rabies and Aids)	3	2) Sexual and Asexual Reproduction (fission, budding, sporulation, vegetative propagation, regeneration, advantages of asexual reproduction, sexual reproduction in plants and animals)	5	2) Genetics (Mendel's law and experiment, means of heredity, DNA, RNA, Variation)	5
	3) Circulatory system (Structure of Blood and its function, Heart, blood vessels, blood circulation)	5	3) Plants reproduction through spores (Introduction & reproduction of fern, prothallus, alternation of generation, introduction & life cycle of mushroom, advantages & disadvantages of mushroom)	6	3) Ecosystem (pyramids, marine and terrestrial ecosystem, biogeochemical cycle)	6
Geology + Astronomy	1) History of earth (History of earth, evolution of living beings, bio-fuels)	4	1) Atmosphere (Different elements of atmosphere, ozone layer, effect of chlorofluorocarbon, effects & uses of greenhouse & artificial greenhouse, Effects of industrial gases)	4	1) The Universe (Structure of solar system and its shape, meteors, natural and artificial satellites, galaxy, constellation, comets, asteroids, black hole)	5
	Revision	3	Revision	2	Revision	3

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PABSON Kathmandu, Syllabus- 2067

Subject: Social Studies

Class: 10

		First Term		Mid Term		Pre-Send up	
S.N	Topics		E.P		E.P		E.P
1	Our community and Nation	1.1) Region/ concept of Regional Development ➤ Development Regions ➤ Federalism and Regionalism	7	1.2) Comparative study of Development Region (Physical, social and economic study) ➤ EDR, CDR, WDR, MWDR, FWDR	10	1.3) Programme of Project Running in Nepal	3
2	Infrastructures of Development	2.1) Skilled Human Resource, Peace and Stability as the Infrastructures of Development. ➤ Need of skilled manpower ➤ Human Resource for Today and Future	7	2.2) Problems and solution in the Development Activities in Nepal. ➤ Women in Human Development	4		
3	Our Traditions Customs, Social Values and Norms	3.1) Our Cultural Heritages. ➤ List of our Heritages enlisted in the World Heritage list.	4	3.2) Our Customs ➤ Folk and classical music ➤ Folk Dance popular in Nepal ➤ Folk Musical Instruments 3.3) Our Int'l Personalities ➤ Hellen Keller ➤ Stephen Hawkin	5	3.4) Our National Days ➤ Martyr's Day ➤ Democracy Day ➤ Children's Day ➤ Constitution Day ➤ Education Day ➤ International Labour Day ➤ International Women's Day ➤ Loktantra Day	6
4	Social Problems, Evil and solution	4.1) Social Problems and Evil ➤ Girl Trafficking ➤ Prostitution ➤ Untouchability ➤ Dawary System ➤ Ghumto System ➤ Deuki System ➤ Jhuma System	6	4.2) Corruption a main social problem ➤ Drug Abuse ➤ Community Based Rehabilitation Centre ➤ SOS ➤ Physical Disability ➤ Blindness ➤ Refugee Problems ➤ UNHCR	7	4.3) Role of Different National and International Organizations in solving social problems in Nepal	4

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5	Civil Sense	5.1) Three main organs of Government. ➤ Legislature ➤ Judiciary (formation and functions)	6	5.2) Introduction to constitutional Bodies. 5.3) Role of Political parties in Loktantra 5.4) Election process and Role of citizen ➤ Executive	8	5.5) Human Rights, Nepal's Commitment to Human Rights. 5.6) Issues of National Concern ➤ National Integrity ➤ Border Security ➤ Self Respect/ Self Esteem ➤ Sovereignty	6
6	Our Earth	6.1) Types of World climate, Geographical variation and their effect on Earth. ➤ Climate and Natural vegetation ➤ World climate and vegetation zones and economical activities. 6.2) N. America 6.4) Map work (world map) 6.5) Map work (Nepal)	10	6.2) Continental Studies ➤ S. America ➤ Africa ➤ Map work (World map) ➤ Map work (Nepal)	8	6.3) Earthquake: Cause, Effects and measures. ➤ Economic Activities and life of people in N. America, S. America and Africa and in Nepal (comparison) ➤ Map work (World map) ➤ Map work (Nepal)	4
7	Our Past	7.1) Political Development from 2007 to 2046 and their effects on Economical and Social Aspects	6	7.3) World History ➤ Causes, Course and Results of The First World War 7.2) Political Development from 2046 to mass movement II 2062/63 ➤ Report writing	7	7.3) World History ➤ Causes, Course and results of the second World War ➤ Effects of War on Nepal and Role of Nepalese. ➤ Report writing	8
8	Economic Studies	8.1) Importance of Tourism Industry in Nepalese Economy and Its Potentialities	6	8.2) Problems of Tourism Development and their solutions. 8.3) Importance of foreign employment in Nepalese economy, possibilities and challenges.	8	8.4) Role of present 10 th Five- year Plan for Tourism Development	4
9	International Understanding Peace and co-operation	9.1) UNO and Its organs	5	9.2) Specialized Agencies of UNO and their relation to Nepal.	5	9.3) Global Events and Impacts upon Human Civilization.	3

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 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: 10

First Term			Mid Term		Pre-Send Up Test	
Units	Topics	EP	Topics	EP	Topics	EP
I Demography	1.1. Population status of Nepal 1.2. Sources of Population statistics	7	1.3. Demographic Components, Processes & Measures	7	1.4. Factors Affecting Birth, Death & Migration & Areas Affected by migration	6
II Quality Life	2.1. Components of Quality of life	3	2.2. Bases of Quality of life	3		
III Environmental status of Nepal	3.1. Ecosystem of Nepal by Geographical Regions	5	3.2. Effects of Geographical Conditions on Ecosystem & Environment of the different regions	5	3.3. Environment conservation & Management.	5
IV Bio-diversity	4.1. Concept of Bio-diversity	3	4.2. Bio-diversity of Geographical regions 4.3. Rare Birds, Animals & Vegetations	8	4.4. Major threats to Bio-diversity & Strategies to conserve Bio-diversity	6
V Population, Environment & Development	5.1. Concept of Development	4	5.2. Population Environment Development Activities	5	5.3. Sustainable Development	4
VI Disease Nutrition, Smoking & Drugs	6.1. Disease	7	6.2. Nutrition	7	6.3. Smoking & Drug Abuse	7
VII Community Health	7.1. Concept of Community Health	4	7.2. Organizations Providing Health Services & their functions	4	7.3. Major Programmers of Health sectors in Nepal	3

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PABSON Kathmandu, Syllabus- 2067

Subject: C. Mathematics

Class: 10

		First Term	Mid Term	Pre-Send Up Test
SN	Topics	Content	Content	Content
1	Set	Word Problems related to two or three sets and their Venn-diagram		
2	Arithmetic	Compound interest (Maximum 2 years for compounded half yearly and three years for compounded yearly) Population growth & Depreciation (Compounded annually)	Unitary Method (Time and work)	Problem related to profit and loss (Including marked price, discount and VAT)
3	Mensuration	<ul style="list-style-type: none"> ➤ Area of triangle (Right, equilateral, isosceles and scalene) ➤ Word Problems related to triangle ➤ Lateral surface area, total surface area and volume of triangular prism 	Lateral surface area, Total surface area and volume of cylinder, sphere, hemisphere, cone and the solid made by these (Max. two)	Total Surface area and volume of pyramid (square or equilateral triangle is as a base)
4	Algebra	<ul style="list-style-type: none"> ➤ H.C.F. and L.C.M. (Maximum 3 exp.) ➤ Surd (four basic operations) ➤ Equation involving surd 	<ul style="list-style-type: none"> ➤ Problems of indices in the form of quadratic equation ➤ Simplification of algebraic fractions (Maximum four fractions) 	Word Problems related to the simultaneous equation on two variables and quadratic equation
5	Geometry	<ul style="list-style-type: none"> ➤ Triangles standing on same base and between the same parallel lines ➤ Quadrilaterals standing on same base and between the same parallel lines ➤ Triangles and quadrilateral standing on same base and between the same parallel lines 	<ul style="list-style-type: none"> ➤ Circle ➤ Central angle made by equal arcs of a circle are equal and converse (only concept) ➤ Arcs made by equal chords of a circle are equal and its converse (only concept) ➤ Central angle is twice the inscribed angle on the same arc of a circle ➤ The angle in semicircle is at right angle ➤ Opposite angles of a cyclic quadrilateral are supplementary ➤ The line from centre to the point of contact of the tangent is perpendicular to the tangent (only concept) 	Construction of triangles & quadrilaterals

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			<ul style="list-style-type: none"> ➤ Tangents from the same external point to their point of contact arc equal. ➤ The angle made by the chord with tangent is equal to the inscribed angle standing on the arc made by the chord in alternate segment (only concept) 	
6	Statistics	Mean, Median and quartiles of grouped data	Median and quartiles of grouped data by using give curve	
7	Trigonometry		Height and distance	Area of Triangle
8	Probability			<ul style="list-style-type: none"> ➤ Addition law and multiplicative law of probability for mutually exclusive events ➤ Probability tree diagram (two steps if 3 events are given and 3 steps if 2 events are given) ➤ Problems related to the probability of simple dependent events

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PABSON Kathmandu, Syllabus- 2067

Subject: Opt. Mathematic

Class: 10

		First Term		Mid Term		Pre-send up test	
S.N	Topics	Content	T.P	Content	T.P	Content	T.P
1	Algebra	Function: - Types of function (identify, constant, linear, quadratic, cubic) - Inverse function - Composite functions Polynomials: - Remainder theorem - Factor theorem - Synthetic division - Factorization and solving cubic polynomials. Sequences and Series: - Arithmetic progression (Introduction, general term, means, sum of 1 st n terms)	5 6 6	Sequence and Series: - Geometric progression (Introduction, general term, mean, sum of first n-terms) - Relation between A.M. and G.M. - Sum of first n natural, even and odd numbers.	6		
2	Co-ordinate Geometry	- Angle between two straight lines - Conditions of perpendicularity and parallelism of two straight lines - General equation of 2 nd degree - Condition that the general equation of 2 nd degree may represent a linear pair - Homogeneous equation of 2 nd degree always represents a pair of straight lines passing through origin. - Angle between the two straight lines represent by $ax^2+2hxy+by^2=0$ - Condition of perpendicular and co-incident for a pair of straight lines represent by $ax^2+2hxy+by^2=0$	10	Circle: - Equation of circle with centre at origin and radius 'r'. - Equation of circle with centre at (h, k) and radius 'r'. - Equation of circle in diameter form. - Equation of circle passing through three points. - Condition that the circle touches x-axis, y-axis or both. - Equation of circle indifferent cases.	6		

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3	Vector			<ul style="list-style-type: none"> - Scalar product of two vectors - Angle between two Vectors - Conditions that the two vectors are perpendicular <p>Vector Geometry:</p> <ul style="list-style-type: none"> - Section formula (internal and external) - Mid point formula - Centroid formula - Mid point theorem on triangle -Relation between vertex of and isosceles triangle and midpoint of its base. - Two medians of isosceles triangle are equal and its converse. - A quadrilateral which joins the mid points of adjacent sides of a quadrilateral forms a llgm. - A quadrilateral with equal diagonal is a rectangle. - Diagonals of pram. bisect perpendicularly. - Line joining the mid points of non-parallel sides of a trapezium half and parallel to parallel sides. - Angle in a semi-circle is a right angle. - Mid point of hypotenuse of a right angled triangle is equidistance from each vertex. 			
4	Transformation					Combined transformation Transformation using matrix	
5	Statistics			<p>Dispersion:</p> <ul style="list-style-type: none"> - Mean deviation and its coefficient (from mean and median only) - Standard deviation and its coefficient - Coefficient of variance 	6		

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6	Trigonometry	<ul style="list-style-type: none"> - Trigonometric ratios of a compound angle - Trigonometric ratios of multiple angle - Trigonometric ratios of sub-multiple angle - Transformation of trigonometric formulae. 	18	<ul style="list-style-type: none"> - Conditional trigonometrically identities. - Trigonometrical equations - Height and distance 	12		
7	Matrix	<ul style="list-style-type: none"> - Multiplication of two matrices - Properties of matrix multiplication - Transpose of a matrix - Determinant of 2x2 matrix - Singular and non-singular matrix - Inverse of 2x2 matrix - Solution of a system of linear equations by matrix method. 	8				
8	Linear Programming			<ul style="list-style-type: none"> - Introduction to linear programming. - Concept of objective function, constraints and feasible region. - Calculation of inequality with the help of given graph. - Maximum and minimum value of a graph. - Graph of quadratic equation - Solution of linear equation and quadratic equation by substitution method and graphical method. 	6		

Note: The subject teachers are free to use the teaching methods, teaching materials and teaching period according to their convenience. Question should be prepared according to S.L.C. grid.

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Subject: Computer

Class: 10

First Term	Mid Term	Pre-send up test
<p>I. Fundamentals of Computer Science</p> <p>I. a. Networking and Telecommunication Computer Network b. Requirement of network Hardware / software / devices / protocols/ Transmission media c. Network Topologies(Bus / Ring/ Star) d. Network Architecture(Centralized / Client server/ Peer to peer) e. Network models(LAN, MAN, WAN) f. Modem, NIC, HUB, Connector, Switch, Bridge, Gateway, Repeater, Router</p> <p>❖ Mode of communication Simplex /half Duplex /Full Duplex Computer Networking System g. Advantages and disadvantages h. Number System Conversion: Binary to decimal, octal, hexadecimal and other bases to binary. Operation : binary addition, product, difference and quotient</p> <p>I. b. Internet and services a. Introduction b. Web browser and internet c. Components Required for internet Connection d. ISDN(digital Subscriber Line) e. internet services f. Common Terms Web, www, upload, download, Browser, URL, Domain Name, Host name, DNS, Telnet, FTP, HTTP, email, chat, web site, web page</p> <p>I. c. Computer virus What is...? How to protect the system from viruses? What are types of viruses? What is antiviral software? How does virus transfer?</p> <p>I. d. computer Security Hardware/software security measures</p> <p>II. Programming Language Qbasic I. a. Modular Programming →application/module/procedure/function →distinct and importance of procedure/function</p>	<p>I. e. Multimedia Application Meaning, use of multimedia, multimedia technology and multimedia system, advantages of multimedia system, application of multimedia, requirement to run multimedia system in a computer, Multimedia presentation, virtual reality</p> <p>III. Database Management system(Ms Access) a. DBMS and Database Advantages of DBMS, types of DBMS Automatic and manual database, Data and data types, record, table, primary key, relation, attributes, attributes proprieties, fields, sorting, indexing, filtering, different types of queries, attribute constraints b. Table / form / query / report</p> <p>II. Programming Language Qbasic a. Sequential File handling Creation of sequential file in output and append mode, read data from file, add data to a file, delete unnecessary records from file, Make correction on data, add necessary data fields, Merge records of two or more same type of file, read only some of the records etc. <i>At least 5/5 example of each pattern</i></p> <p><i>At least 5/5 tables, forms, reports, simple and conditional queries of different types</i></p>	<p>f. Cyber Law and Computer Ethics Cyber, Cyber space, Cyber crime, Cyber law of Nepal, digital signature, computer ethics, IPR,</p> <p>IV. Introduction of C Data types in C, rules for variable declaration, operators, looping construct, decision construct, comparison of c with qb <i>At least 3/3 example of each</i></p> <p>V. Project Work guidance (Algorithm, flowchart, coding(input module, processing and control module and output module) Menu base, modular concept, data organization in file and manipulate as per need, Cover page, preface, table of contents, theoretical aspects of the project, objectives, design the system and module, write the code, testing and debugging, get the output and write the conclusion.</p>

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<ul style="list-style-type: none">→global and local variables→ parameter and arguments→argument pass by value and pass by reference<ul style="list-style-type: none">→distinct between built-in and user defined function→ Function / procedure declaration, define body of function/procedure and use of...→Types of functions and procedure→Use of def...fn function, declare function... and sub ...end sub <p>At least 27 problem solution</p>		
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