

Madhyama

2nd Year

Paper-I – Sanskrita Byakarana 'O' Darshan

Only for the Academic Session 2020-21

EXISTING TOPICS	REDUCTION
<p>Prescribed Books :</p> <p>1. ପାଠ୍ୟପୁସ୍ତକ - ପ୍ରାରମ୍ଭିକ ପାଠ୍ୟପୁସ୍ତକ, ଡକ୍ଟର ସଂଗ୍ରହ (ପ୍ରକାଶକ - ବାରଣାସୀ)</p> <p>2. ସହାୟକ ପୁସ୍ତକ - ସଂସ୍କୃତ ବ୍ୟାକରଣ ପ୍ରଦୀପଃ , CI-IX (ପ୍ରକାଶକ -ମାଧ୍ୟମିକ ଶିକ୍ଷା ପରିଷଦ , କଟକ) 2012</p> <p>୧. ପାଠ୍ୟାଂଶ - ଭାବି, ଅବାଦି, କୁହୋତ୍ୟାଦି, ଦିବାଦି, ସ୍ଵାଦି, ତୁଦାଦି, ରୁଧାଦି ତନାଦି, କ୍ରାଦି, ତୁରାଦି, ଶିନନ୍ତ, ସନନ୍ତ, ଅନୁବାଦ ।</p> <p>୨. ଶ୍ରୀମଦ ଭଗବତ ଗୀତା - ପଞ୍ଚଦଶ ଅଧ୍ୟାୟ ୧ ରୁ ୨୦ ଶ୍ଳୋକ</p>	<p>୧. ରୁଧାଦି, ତନାଦି, କ୍ରାଦି, ତୁରାଦି</p> <p>୨. ଶ୍ରୀମଦ ଭଗବତ ଗୀତା ପଞ୍ଚଦଶ ଅଧ୍ୟାୟ ରୁ ୧୭ ରୁ ୨୦- ୫ଟି ଶ୍ଳୋକ (ପଢାଯିବ ନାହିଁ)।</p> <p>TIDN</p> <p>ସାଧାରଣ ରୁ ୧୭ ରୁ ୨୦- ୫ଟି</p>

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Paper-II – Sanskrita Sahityam

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EXISTING TOPICS	REDUCTION
<p>Prescribed Books : ସଂସ୍କୃତ ବଲ୍ଲରୀ, CI-IX (Published by:- B.S.E,Odisha , 2012)</p> <p>ଗଦ୍ୟ ବିଭାଗ :- ୧. ସତ୍ୟମ୍ ୨. ଉତ୍କଳଗୌରବମ୍ ୩. ମୃତ୍ୟୁ ସହାୟକଃ ୪. ସଂସ୍କୃତ ସମ୍ଭାଷଣମ୍</p> <p>ପଦ୍ୟ ବିଭାଗ :- ୧. ନୀତିବାଣୀ ୧୭ - ୨୮ ୨. ପ୍ରହେଳିକା - ୧-୧୭</p> <p>ଛନ୍ଦଃ :- ଆର୍ଯ୍ୟା, ଅନୁଷ୍ଟୁପ୍, ଇନ୍ଦ୍ରବଜ୍ରା, ଶଶୀବଦନା, ଚମ୍ପକମାଳା, ଗଣପରିଚୟ ।</p> <p>ଅଳଙ୍କାର :- ଅନୁପ୍ରାସ, ଯମକ, ଉପମା, ରୂପକ, ବ୍ୟତିରେକ</p> <p>ଅନୁଚ୍ଛେଦ - ୬ ରୁ ୧୦ = ୪ଟି ପ୍ରବନ୍ଧ, ପଦ୍ମଲିଖନମ୍ ।</p>	<p>ଗଦ୍ୟ ବିଭାଗ :- (୪) ସଂସ୍କୃତ ସମ୍ଭାଷଣମ୍</p> <p>ପଦ୍ୟ ବିଭାଗ :- ନୀତିବାଣୀ - ୨୪ ରୁ ୨୮ । ପ୍ରହେଳିକା - ୧୨ ରୁ ୧୭ ।</p> <p>ଛନ୍ଦଃ :- ଶଶୀବଦନା, ଚମ୍ପକମାଳା</p> <p>ଅଳଙ୍କାର :- ବ୍ୟତିରେକ</p> <p>ଅନୁଚ୍ଛେଦ - ଶେଷ ଅନୁଚ୍ଛେଦ ପଢାଯିବ ନାହିଁ ।</p>

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Paper-III – Prayogatmaka Sanskrita

Only for the Academic Session 2020-21

EXISTING TOPICS	REDUCTION
<p>କର୍ମକାଣ୍ଡ :-</p> <p>୧) ଦଶଦିଗପାଳ ପୂଜନମ୍</p> <p>୨) ଅଷ୍ଟାଦଶ ମାତୃଗଣ ପୂଜନମ୍</p> <p>୩) ବସୋଜ୍ଞାରା ପୂଜନମ୍</p> <p>ଜ୍ୟୋତିଷ :-</p> <p>୧) ଗ୍ରହଣାଂ ସ୍ଥାନ ବଳ ବିଚାର</p> <p>୨) ନକ୍ଷତ୍ରାଣାଂ ନାମାନି</p> <p>୩) ତିଥୀନାଂ ନାମାନି</p> <p>୪) ବାସରାଣାଂ ନାମାନି</p> <p>୫) ଶୁଭାଶୁଭ ଲଗ୍ନ ଜ୍ଞାନ ବିଚାର ।</p> <p>ଆୟୁର୍ବେଦ :-</p> <p>ପାଚନାବୟବୀନାଂ ପରିଚୟଃ, ବାୟୁ ପଞ୍ଚକମ୍, ଜ୍ଞାନେନ୍ଦ୍ରିୟାଣାମ୍ ପରିଚୟଃ ।</p> <p>ଯୋଗ :-</p> <p>ସ୍ଵସ୍ତିକାସନଂ, ଗୋମୁଖାସନଂ, ବୀରାସନଂ, କୁର୍ମାସନଂ, କୁକୁଟାସନଂ, ଧନୁରାସନଂ, ମହୋଦ୍ରାସନଂ ।</p>	<p>କର୍ମକାଣ୍ଡ :-</p> <p>(୩) ବସୋଜ୍ଞାର ପୂଜନମ୍</p> <p>ଜ୍ୟୋତିଷ :-</p> <p>ଶୁଭାଶୁଭଲଗ୍ନଜ୍ଞାନ ବିଚାର</p> <p>ଆୟୁର୍ବେଦ :-</p> <p>ପାଚନାବୟବୀନାଂ ପରିଚୟଃ</p> <p>ଯୋଗ :-</p> <p>ଧନୁରାସନଂ, ମହୋଦ୍ରାସନଂ</p>

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Paper-IV – MATRUBHASA ODIA

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EXISTING TOPICS	REDUCTION
<p>PRESCRIBED BOOK(S)</p> <p>୧.ସାହିତ୍ୟ ଧାରା, CI-IX (Published by:- B.S.E,Odisha , Edition -2012)</p> <p>ପଦ୍ୟ :-</p> <p>(୧) କାହାମୁଖ ଅନାଇ ବଞ୍ଚିବି (୨) ପଦ୍ମ (୩) ହେ ମୋର କଲମ (୪) ମଣିଷ ଭାଇ (୫) ମାଟିର ମଣିଷ</p> <p>ଗଦ୍ୟ :-</p> <p>(୧) ଜାତୀୟ ଜୀବନ (୨) ବାମନର ହାତ ଓ ଆକାଶର ଚନ୍ଦ୍ର (୩) ପ୍ରକୃତ ବନ୍ଧୁ (୪) ଶକ୍ତି ଓ ଜ୍ଞାନ</p> <p>ଗଳ୍ପ :-</p> <p>(୧) ବୁଢ଼ା ଶଙ୍ଖାରି (୨) ପତାକା ଉତ୍ତୋଳନ</p> <p>ଏକାଙ୍କିକା :-</p> <p>(୧) ଦଳବେହେରା</p> <p>୨.ମାଧ୍ୟମିକ ବ୍ୟାକରଣ, CI-IX (Published by:- B.S.E,Odisha , Edition -2012)</p> <p>ବ୍ୟାକରଣ :</p> <p>(୧) ସର୍ବି (୨) ସମାସ (୩) କୃଦନ୍ତ (୪) ତତ୍ସିତ</p>	<p>ପଦ୍ୟ :-</p> <p>(୩) ହେ ମୋର କଲମ (୪) ମଣିଷ ଭାଇ</p> <p>ଗଦ୍ୟ :-</p> <p>(୨) ବାମନର ହାତ ଓ ଆକାଶର ଚନ୍ଦ୍ର</p> <p>ବ୍ୟାକରଣ :</p> <p>(୩) କୃଦନ୍ତ (୪) ତତ୍ସିତ</p>

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Paper-IV – MATRUBHASA HINDI

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EXISTING TOPICS	REDUCTION
<p>PRESCRIBED BOOK(S)</p> <p>१. हिन्दी मंजरी, CL-IX (Published by:- B.S.E, Odisha, Edition -2012)</p> <p>पद्य :-</p> <ol style="list-style-type: none">1. अनमोल मोतीदोहे - कबीरदासपद - सूरदासदोहे - तुलसीदासदोहे - रहीमकुंडलिया - गिरिधर कबिराय2. प्रियतम3. राहुल जननी4. फिर महान बन5. मेरा नया बचपन6. साथी ! दुःख से घबराता है ? <p>गद्य विभागाः:-</p> <ol style="list-style-type: none">1. श्रम की प्रतिष्ठा (निबंध)2. ममता (कहानी)3. जेल में मेरे मित्र (अनुभव)4. बैज्ञानिक चेतना के बाहक चंद्रशेखर बेंकट रामन (बिज्ञान)5. अध्यापक के नाम पत्र (पत्र) <p>२. हिन्दी व्याकरण और प्रयोग, CL-IX</p> <p>(Published by:- B.S.E, Odisha, Edition -2012)</p> <p>व्याकरण :-</p> <ol style="list-style-type: none">1. व्याकरणों क्यों2. ध्वनि और वर्ण3. अच्छी हिंदी कैसे सीखे :लेखन, अनुनासिकता और अनुस्वार4. रूप - बिचार5. संज्ञा6. लिंग7. बचन8. कारक9. सर्वनाम10. बिसेषण11. क्रिया12. अब्यय13. अपठित अनुच्छेद का पठन और अबधारण14. अनुबाद	<p>पद्य :-</p> <ol style="list-style-type: none">1. मेरा नया बचपन2. साथी ! दुःख से घबराता है ? <p>गद्य :-</p> <ol style="list-style-type: none">1. बैज्ञानिक चेतना के बाहक चंद्रशेखर बेंकट रामन (बिज्ञान)2. अध्यापक के नाम पत्र (पत्र) <p>व्याकरण :-</p> <ol style="list-style-type: none">1. क्रिया का काल2. अब्यय

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Paper-V – MATHEMATICS

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SYLLABUS AFTER REDUCTION

PRESCRIBED BOOK(S)

1- ମାଧ୍ୟମିକ ବୀଜଗଣିତ, CI-IX,

(Published by:- B.S.E,Odisha , Edition -2012)

A. ALGEBRA

Set Operations (without application)

- Detailed discussion on union, intersection, difference and symmetric difference, universal set, complement of a set, Demorgan Laws
- Solution of problems (including word problems) using Venn diagram (simple problems)

Real Numbers

- Review of Natural numbers, Integers, Rational numbers
- Ordering of rationals
- Terminating and non-terminating decimal numbers
- Inadequacy of rationals and emergence of irrationals
- Real numbers as union of rational and irrationals
- Axioms on operations on real numbers
- Real number line and representation of rational and irrational numbers on it.
- Laws of indices with real index with +ve real bases

Algebraic expressions and identities

- Review of polynomials & Degree of polynomial
- Zeros of a polynomial
- Addition, Subtraction, Multiplication and Division of polynomials (Review)
- Factorization of polynomial of the form $(a + b)^3$, $(a - b)^3$, $a^3 + b^3$, $a^3 - b^3$, $a^4 + a^2b^2 + b^4$, $ax^2 + bx + c$, $x^3 + y^3 + z^3 - 3xyz$
- Remainder theorem and its application, Factor theorem (Only Statement)
- H.C.F. and L.C.M. of polynomials by factorization.

Algebraic equations

- Recapitulation of linear equations and its solutions

Co-ordinate Geometry

- Introduction to rectangular co-ordinate system, cartesian plane. co-ordinate of a point, graphs, plotting of points with given coordinate. graphs of linear equation with one variable. Equation of a line i.e. $ax + by + c = 0$, $y = mx + c$ ($c = y$ - intercept, $m =$ slope of a line)

Ratio and Proportion

- Ratios (Duplicate, sub-duplicate, triplicate and sub-triplicate and compound ratio)
- Proportion and its properties (Invertendo, Alternendo, Componendo, Dividendo, Addendo, Componendo and Dividendo)
- Fourth proportional, third and mean proportional.

2- ମାଧ୍ୟମିକ ଜ୍ୟାମିତି, CI-IX,

(Published by:- B.S.E,Odisha , Edition -2012)

(B) GEOMETRY

Lines and Angles

- Recapitulation of fundamental concepts i.e. line, line segment, ray, angle, angle measure different types of angles.
 - if a ray stands on a line, then the sum of the measures of two adjacent angles so

formed is 180° and its converse. (Axiom)

- Two distinct lines cannot have more than one point in common. (Theorem)
- If two lines intersect, then the vertically opposite angles are equal. (Theorem)
- Parallel lines. Results on corresponding angles, alternative angles, interior angles when a transversal intersects to parallel lines.
- Lines which are parallel to a given line, are parallel.
- The sum of the measures of the angles of a triangle is 180° (Theorem)
- The measure of the exterior angle of a triangle is equal to the sum of the measures of the two interior opposite angles.

Triangles (Congruency)

- The concept of congruence of two figures; congruence of triangles, minimum criteria for congruence.
- Two triangles are congruent if any two sides and the included angle of one triangle are equal to any two sides and the included angle of the other triangles (S-A-S axiom).
- The angles opposite to two equal sides of a triangle are congruent. (Theorem).
- Two triangles are congruent if any two angles and the included sides of one triangle are equal to any two angles and included side of the other triangle (A-S-A Theorem).
- Two triangles are congruent if two angles and any side of one are respectively equal to angles and the corresponding side of the other.
- The sides opposite to congruent angles of a triangle are congruent.
- Two triangles are congruent if the three sides of triangle are equal to the corresponding three sides of the other triangle. (Theorem).
- Two right triangles are congruent if the hypotenuse and a side of one triangle are respectively equal to the hypotenuse and a side of the other triangle. (Theorem).
- Inequalities in a Triangle
 - If two sides of a triangle are unequal in length the larger side has the greater angle opposite to it. (Theorem).
 - If two angles of a triangle are unequal in measure the greater angle has the longer side opposite to it. (Theorem).
 - The sum of the lengths of any two sides of a triangle is greater than the length of its third side. (Theorem).
 - Of all the line segments that can be drawn to a given line from a point not lying on it, the perpendicular is the shortest in length.

Quadrilateral

Convex quadrilaterals, polygons

- The diagonal divides a parallelogram into two congruent triangles. (Theorem).
- A quadrilateral is a parallelogram, if a pair of opposite sides are parallel and of equal length: (Theorem).
- The opposite sides of a parallelogram are equal.
- The quadrilateral is a parallelogram, if both pairs of its opposite sides are congruent.
- A quadrilateral whose opposite angles are congruent is a parallelogram.
- Diagonals of a parallelogram bisect each other.
- A quadrilateral whose diagonals bisect each other is a parallelogram.
- The diagonals of rectangle are congruent.
- A parallelogram is a rectangle if its diagonals are congruent.
- The diagonals of a rhombus are perpendicular to each other.

Mensuration

- Triangular region, Polygonal region and Area Postulates.
- Area of triangle using Heron's formula (Recap) and its application in finding the area of quadrilateral, square, rectangle, trapezium, parallelogram, rhombus (only formula).

Construction

- Construction of a triangle given its base, sum or difference of the other two sides and one base angle.
- Construction of a triangle of given perimeter and base angles.
- Construction of triangles with one median with other relevant data.

Trigonometry

- Trigonometrical ratios of an angle of measure θ where $0 < \theta < 90^\circ$. Simple identities using $\sin^2 \theta + \cos^2 \theta = 1$, $\sec^2 \theta + \tan^2 \theta = 1$, $\operatorname{cosec}^2 \theta + \cot^2 \theta = 1$ etc. Values of the trigonometric ratios of 30° , 45° and 60° and relationship between them.

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Paper-VI – SCIENCE

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EXISTING TOPICS	REDUCTION
<p>PRESCRIBED BOOK(S)</p> <p>1- ଭୌତିକ ବିଜ୍ଞାନ, CI-IX, (Published by:- B.S.E,Odisha , Edition -2012)</p> <p>ପ୍ରଥମ ଅଧ୍ୟାୟ : ଆମ ଚତୁଃପାର୍ଶ୍ୱରେ ଥିବା ପଦାର୍ଥ ଦ୍ୱିତୀୟ ଅଧ୍ୟାୟ : ପରମାଣୁ ଓ ଅଣୁ ଚତୁର୍ଥ ଅଧ୍ୟାୟ : ପରମାଣୁ ଗଠନ ପଞ୍ଚମ ଅଧ୍ୟାୟ : ଗତି ଷଷ୍ଠ ଅଧ୍ୟାୟ : ବଳ ଓ ଗତି ନିୟମ ସପ୍ତମ ଅଧ୍ୟାୟ : ମହାକର୍ଷଣ</p> <p>2- ଜୀବ ବିଜ୍ଞାନ, CI-IX, (Published by:- B.S.E,Odisha , Edition -2012)</p> <p>ପ୍ରଥମ ଅଧ୍ୟାୟ : ଜୈବ ବିବିଧତା ଦ୍ୱିତୀୟ ଅଧ୍ୟାୟ : ଜୀବକୋଷ ଓ ଏହାର ସଂଗଠନ ପଞ୍ଚମ ଅଧ୍ୟାୟ : ରୋଗ ଓ ତାହାର ନିରାକରଣ ଷଷ୍ଠ ଅଧ୍ୟାୟ : ପ୍ରାକୃତିକ ସମ୍ପଦ ଓ ପରିବେଶ ପ୍ରଦୂଷଣ</p>	<p>ଭୌତିକ ବିଜ୍ଞାନ</p> <p>ତୃତୀୟ ଅଧ୍ୟାୟ : 3.1.3 ଚତୁର୍ଥ ଅଧ୍ୟାୟ : 4.2.1 ପଞ୍ଚମ ଅଧ୍ୟାୟ : 5.6 ଷଷ୍ଠ ଅଧ୍ୟାୟ : 6.5.1, 6.5.2 ସପ୍ତମ ଅଧ୍ୟାୟ : 7.1.2, 7.4.1, 7.7</p> <p>ଜୀବ ବିଜ୍ଞାନ</p> <p>ପ୍ରଥମ ଅଧ୍ୟାୟ : ଜୈବ ବିବିଧତା</p>

2- ଭୂଗୋଳ ଓ ଅର୍ଥନୀତି : CI-IX, B.S.E. Odisha, 2012

ଭୂଗୋଳ

Chapter – I : ଭାରତ

୧ମ ପାଠ : ଭାରତ ଆକାର ଓ ଅବସ୍ଥିତି

୨ୟ ପାଠ : ପ୍ରାକୃତିକ ବିଭାଗ

୩ୟ ପାଠ : ବିପତ୍ତି ଓ ବିପର୍ଜୟ

Chapter-IV : ଭାରତର ପ୍ରାକୃତିକ ଉତ୍ପଦ ଓ ବନ୍ୟ ପ୍ରାଣୀ

ପ୍ରଥମ ପାଠ : ପ୍ରାକୃତିକ ଉତ୍ପଦ

ଦ୍ୱିତୀୟ ପାଠ : ବନ୍ୟ ପ୍ରାଣୀ

Chapter – V ଜନସଂଖ୍ୟା

ଅର୍ଥନୀତି

Chapter –II : ଧାରଣୀୟ ବିକାଶ

ଭୂଗୋଳ

Chapter – IV

ଦ୍ୱିତୀୟ ପାଠ - ପ୍ରାକୃତିକ ବିଭାଗ

Chapter-V

ଜନସଂଖ୍ୟା

କୃତ୍ରିମ ବିଭାଗ

Madhyama

2nd Year

Paper-VIII – ENGLISH

Only for the Academic Session 2020-21

EXISTING TOPICS	REDUCTION
<p>1- Skills of communicative English, B.S.E. Odisha, 2012</p> <p>A. Prose : (i) The Priceless Gift (ii) The Swimmer Who Does not Need Her Legs. (iii) A Hero</p> <p>B. Poems : (i) The Nobel Nature (ii) The Home & Love (iii) Alexander Selkirt</p> <p>C. Stories : (i) The Trunk of Ganesha (ii) The Lost Child</p> <p>2- Learn and Practice Grammar, B.S.E. Odisha, 2012 Grammar Chapter I : Parts of a sentence Chapter II : Verbs Chapter III : Time and Tense Chapter IV : Auxiliaries (Primary and Modals) Chapter V : The Noun Phrase Chapter VII : Countables and uncountables Chapter VIII : Determiners Chapter IX : Adjectives Chapter X : Adverbs and Adverbials Chapter XI : Negatives and Interrogatives</p>	<p>A. Prose : (iii) A Hero</p> <p>B. Poems : (i) The Nobel Nature</p> <p>C. Stories : (ii) The Lost Child</p> <p><u>Grammar</u> Chapter VII : Countables and uncountables</p>