



ସରସ୍ୱତୀ ବିଦ୍ୟା ମନ୍ଦିର
ଆବାସିକ ବିଜ୍ଞାନ ଉଚ୍ଚ ମାଧ୍ୟମିକ ବିଦ୍ୟାଳୟ
SARASWATI VIDYA MANDIR
RESIDENTIAL SCIENCE HIGHER SECONDARY SCHOOL



SHIKSHA VIKASH SAMITI, ODISHA, KESHAVDHAM, GATIROUTPATNA, CUTTACK - 754100

HALF-YEARLY SYLLABUS & QUESTION PATTERN

CLASS - XI

: ଓଡ଼ିଆ :

ଗଦ୍ୟ ୧ମ ଏକକ - MCQ - $5 \times 1 = 5$

S.Q - $3 \times 1 = 3$

S.Q - $2 \times 2 = 4$

S.Q - $1 \times 3 = 3$

L.Q - $1 \times 5 = 5$

ଏକାଙ୍କିକା ଗାୟ ଏକକ-MCQ - $5 \times 1 = 5$

S.Q - $3 \times 1 = 3$

S.Q - $2 \times 2 = 4$

S.Q - $1 \times 3 = 3$

L.Q - $1 \times 5 = 5$

ପ୍ରବନ୍ଧ ଓ ବ୍ୟାକରଣ ଝମ ଏକକ-

ପ୍ରବନ୍ଧ ରଚନା - ଗାନ୍ଧିରୁ ୧ଟିର $5 \times 1 = 5$

୨ଟି ପତ୍ରଲିଖନର ୧ଟି $5 \times 1 = 5$

ବ୍ୟାକରଣ - ବିଶେଷ୍ୟ $1 \times 5 = 5$

ବିଶେଷଣ $1 \times 5 = 5$

ସର୍ବନାମ $1 \times 5 = 5$

ଗଦ୍ୟ - ୧. ଶରଣୁପଦର

୨. ଝେଲମ୍ ନଦୀରେ ସନ୍ଧ୍ୟା

୩. ମଧୁବାବୁ

ପଦ୍ୟ - ୧. ସାହାଡ଼ା ବୃକ୍ଷ

୨. ଶାପ ମୋଚନ

୩. ହିମକାଳ

ଏକାଙ୍କିକା- ୧. ଅତ୍ୟାଚାରିତ

୨. ଭାଲୁ ଉପଦ୍ରବ

ଅବବୋଧ ପରୀକ୍ଷଣ - ଗଦ୍ୟାଂଶ, ପଦ୍ୟାଂଶ (ବିଷୟ ଗତ)

ପ୍ରବନ୍ଧ ଓ ବ୍ୟାକରଣ - ୧. ପ୍ରବନ୍ଧ

୨. ପତ୍ରଲିଖନ ଦରଖାସ୍ତ୍ର

୩. ବିଶେଷ୍ୟ

୪. ବିଶେଷଣ

୫. ସର୍ବନାମ

: ହିନ୍ଦୀ :

କାବ୍ୟ ପାଠ

1. କବୀରଦାସ - ଦୋହେ

4. ବିହାରୀଲାଲ - ଦୋହେ

2. ସୁରଦାସ- ବିନୟ ତଥା ବାଳ ଲୀଳା

5. ଜୟଶଙ୍କର ପ୍ରସାଦ - ଲେ ଚଳ ମୁଞ୍ଚେ

3. ମୀରା - ପଦ୍

निबंध

1. प्रेमचंद -जीयन मे साहित्य का स्थान
2. जैनेन्द्र कुमार - बाजार दर्शन

ब्याकरण

1. क्रिया
 2. उपसर्ग और प्रत्यय
- Question Pattern MCQ - $1 \times 40 = 40$
VSQ - $2 \times 9 = 18$
S.Q - $2 \times 4 = 12$
L.Q - $5 \times 6 = 30$

Total - 100

कहानी

1. प्रेमचंद - बूढीकाकी
2. जयशंकर प्रसाद - ले चल मुझे
3. अपठित गद्यांश और पद्यांश

PHYSICS :-

- Unit - I** [Units and Dimensions]
Unit - II [Kinematics]
Chapter - 1 Motion in a straight line
Chapter - 2 Motion in a plase
Unit - III [Laws of Motion]
Unit - IV [Work, Energy and power]
Unit - V [Thermal Properties of matter]
Unit - VI [Thermodynamics]

- Question Pattern
MCQ - $1 \times 7 = 7$
VSQ - $1 \times 7 = 7$
S.Q - $2 \times 7 = 14$
S.Q - $3 \times 7 = 21$
L.Q - $7 \times 3 = 21$ **Total - 70**

CHEMISTRY :-

- Unit - 1 Basic Concept of Chemistry
Unit - 2 Structure of atom
Unit - 3 Periodic table
Unit - 8 Redox reaction
Unit - 9 Some basic principles of organic chemistry
Unit - 10 Alkane, alkene, alkyne
Unit - 4 Chemical bouding

- Question Pattern**
MCQ - $1 \times 7 = 7$
VSQ - $1 \times 7 = 7$
S.Q - $2 \times 7 = 14$
S.Q - $3 \times 7 = 21$
L.Q - $7 \times 3 = 21$

Total - 70

MATHEMATICS :-

1. Sets
2. Relations & Functions
3. Trigonometric Functions
4. Complex Numbers and Quadratic Equations
5. Linear Inequalities
6. Sequence and Series
7. Permutations and combinations
8. Binomial Theorem
9. Straight Lines

Questions Pattern

1. $1 \times 10 = 10$
2. $4 \times 15 = 60$
3. $6 \times 5 = 30$

Total - 100

: BOTANY :

Cell Structure and Function

Cell theory , Plant & animal cell, Prokaryotic & Eukaryotic cell, Cell organelles, nucleus, nuclear membrane, chromatin, nucleolus.

Biomolecules

Structure and function of proteins, lipids, Carbohydrates, nucleic acids, enzymes

Unit - II Diversity in living world - Domains of life

Unit - IV Photosynthesis

Questions Pattern

1. Multiple choice : 1 mark each x 5 = 5 marks
2. Fill up the blanks : 1 marks each x 5 = 5 marks
3. Short Answer Type : 2 marks each x 5 = 10 marks
4. Differentiate between : 2.5 marks x 2 = 5 marks
5. Long Type : 5 x 2 = 10 marks **Total - 35**

: ZOOLOGY :

Questions Pattern

1. Multiple choice : 1 mark each x 5 = 5 marks
2. Fill up the blanks : 1 marks each x 5 = 5 marks
3. Short Answer Type : 2 marks each x 5 = 10 marks
4. Differentiate between : 2.5 marks x 2 = 5 marks
5. Long Type : 5 x 2 = 10 marks **Total - 35**

Animal Kingdom

Salient features and classification of animals non chordates up to phyla level and chordates up to class level. (Salient features and a few examples of each category)

Unit - 3

Chapter - 10 (Cell cycle and cell division)

Cell Cycle, mitosis, meiosis and their significance

Chapter - 15 (Body fluid and Circulation)

Composition of blood, blood groups, coagulation of blood, composition of lymph and its function, human circulatory system. Structure of human heart and blood vessels, cardiac cycle, cardiac output, ECG, double circulation, regulation of cardiac activity, disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.

-: IT :-

Ch. 1 Hardware concepts :

Question Pattern

MCQ - 1 x 7 = 7

Ch. 2 Software concepts

VSQ - 1 x 7 = 7

Ch. 3 Open source concepts:

S.Q - 2 x 7 = 14

Ch. 4 Programming with IDE

S.Q - 3 x 7 = 21

Ch.5 Programming fundamentals :

L.Q - 7 x 3 = 21

Total - 70

: SANSKRIT :-

ଗଦ୍ୟଭାଗ

ମନୁମହାଶାସ୍ତ୍ରମ୍, ଚତୁରଃ ଶ୍ଳୋକଃ

ପଦ୍ୟଭାଗ

ସୁଭାଷିତାବଳୀ, ଶ୍ଳୋକ ୧ ରୁ ୧୫

ଅନୁଚ୍ଛେଦ ଭାଗ

୧ ରୁ ୪

ବ୍ୟାକରଣ

ଶବ୍ଦରୂପ, ଧାତୁରୂପ, ସ୍ତ୍ରୀପ୍ରତ୍ୟୟ, ଏକପଦୀକରଣ, ସନ୍ଧିବିଚ୍ଛେଦ, ସନ୍ଧିକରଣ, ପ୍ରକୃତିପ୍ରତ୍ୟୟ, ସକାରଣ ବିଭକ୍ତି, ସ୍ତ୍ରୀଲିଙ୍ଗ, **Unseen passage**

1. **One word** (ଏକପଦେନ) $1 \times 5 = 5$ (Prose)
2. **One word** (ଏକପଦେନ) $1 \times 5 = 5$ (Pome)
3. **One/Two line** - $2 \times 2 = 4$ (ଗଦ୍ୟ + ପଦ୍ୟ)
4. **Short type** $2 \times 3 = 6$
5. ମାତୃଭାଷାରେ ଅନୁବାଦ କର । (**Unseen passage**) $2 \times 5 = 10$
6. **Application / Letter / Invitation card** $1 \times 10 = 10$
7. ସନ୍ଧିକରଣ $1 \times 2 = 2$
8. ସନ୍ଧି ବିଚ୍ଛେଦ $1 \times 2 = 2$
9. ସକାରଣ ବିଭକ୍ତି $1 \times 3 = 3$
10. ପ୍ରକୃତି ପ୍ରତ୍ୟୟ $1 \times 3 = 3$
11. ସ୍ତ୍ରୀଲିଙ୍ଗ $1 \times 3 = 3$
12. ଏକପଦୀକରଣ $1 \times 3 = 3$
13. ଶବ୍ଦରଣ 1×2
14. ଧାତୁରଣ 1×2
15. ଶ୍ଳୋକର ମାତୃଭାଷାରେ ଅନୁବାଦ $4 \times 1 = 4$
16. ଗଦ୍ୟର ମାତୃଭାଷାରେ ଅନୁବାଦ $6 \times 1 = 6$
17. **Long question** - $1 + 1 = 6 \times 2 = 12$
18. **Explanation** ବ୍ୟାଖ୍ୟା/ସରଳାର୍ଥ - **pome** = $1 \times 8 = 8$
19. ଅନୁଚ୍ଛେଦ - $2 \times 5 = 10$

-: ENGLISH :-

- | | |
|--------------------------|--|
| 1. Prose - [10] | 7. Paragraph writing [10] |
| 2. Poem - [10] | 8. Information Transfer [5] |
| 3. Story - [10] | 9. Cohesive / Linking devices [5] |
| 4. Unseen passage [10] | 10. Re-ordering sequence [5] |
| 5. Vocabulary skill [10] | 11. Grammer in Context [10] |
| 6. Letter writing [10] | 12. Story building or Translation [10] |
