

Government of Andhra Pradesh
Department of School Education
State Council of Educational Research & Training
DSC – SGT – SECOND GRADE TEACHER SYLLABUS

1. G.K & current Affairs -	-	10M
2. Perspectives in Education	-	05M
3. Educational Psychology	-	10M
4. Content & Methodologies	-	75M (50+25)
Total	-	100 M

PART - I

I. General Knowledge And Current Affairs (Marks: 10)

PART - II

II. Perspectives In Education (Marks: 05)

1. History of Education :

- The Education in Ancient India - Pre-Vedic and Post-Vedic period, Medieval Education.
- Education in Pre Independent era - Woods Despatch (1854), Hunter Commission (1882), Hartog Committee (1929), Sargent Committee (1944).
- Education in Post Independent era - Mudaliar Commission (1952-53), Kothari Commission (1964-66), Ishwarbhai Patel committee (1977), NPE-1986, POA-1992

2. Teacher Empowerment:

- Need, interventions for empowerment, Professional code of conduct for teachers, Teacher motivation, Professional development of Teachers and Teacher organizations, National / State Level Organizations for Teacher Education, Maintenance of Records and Registers in Schools.

3. Educational Concerns in Contemporary India:

- Democracy and Education, Equality, Equity, Quality in Education, Equality of Educational opportunities.
- Economics of Education, Education as Human Capital, Education and Human Resource Development, Literacy - Saakshar Bharat Mission.
- Population Education, Gender - Equality, Equity and Empowerment of Women, Urbanization and migration, Life skills.
- Adolescence Education
- Value Education – Morel Value and Professional Eathics in Education.
- Health and Physical Education
- Inclusive Education - Classroom Management in Inclusive Education
- Role of Education in view of Liberalization, Privatization and Globalization
- Programmes and Projects – APPEP, DPEP, Sarva Siksha Abhiyan, National Programme for Education of Girls at Elementary Level (NPEGEL), Rashtriya Madhyamika Siksha Abhiyan(RMSA), Rashtriya Aveshekar Abhiyan (RAA), KGBVs, Model Schools.

- Incentives and special provisions – Mid Day Meals, Free Books, Scholarship, Awards, Welfare Hostels, Transportation.
 - Current Trends in Education – Badi pelusthondi, Badi ki Vasta, Mavuru – Mana Badi, Vidyanjali, Swacha Patasala, Inspire, Kalavutsav.
4. **Acts / Rights:**
- Right of Children to Free and Compulsory Education Act - 2009
 - Right to Information Act - 2005
 - Child Rights
 - Human Rights.
5. **National Curriculum** - Framework, 2005: Perspective, Guiding Principles, Learning and Knowledge, Teaching Learning Process, Assessment, Systemic Reforms.

PART - III

III. Educational Psychology – 10Marks

1. **Development of Child:** Development, Growth & Maturation – Concept & Nature. Principles of development and their education implication. Factors influencing Development – Biological, Psychological, Sociological, emotional. Dimensions of Development and their interrelationship – Physical & Motor, Cognitive, Emotional, Social, Moral, Language relating to Infancy, early Childhood, late Child hood, Adolescence. Understanding Development – Piaget, Kohlberg, Chomsky, Carl Rogers, Erikson.
2. **Individual differences:** Inter and intra individual differences, meaning, nature and theories of intelligence with special emphasis to multiple intelligence, IQ, assessment of intelligence, EQ, Creativity. Attitude, Aptitude, Interest, Habit and its Influence on Intelligence – Class room implementation.
3. **Learning:** Theories and approaches of learning, learning curves, Factors, Phases, Dimensions of learning, Types of learning, Transfer of learning. Memory, Forgetting, Learning and assessment– Class room implementation – Children with special need – Inclusive Education.
4. **Personality:** Nature, characteristics and theories of personality, factors of Personality, Assessment of Personality, Mental health, Adjustment, Stress – nature, Symptoms and management. Emotional intelligence, Management of emotions – Class room implementation.

PART - IV

Telugu: - Content: 10 మార్కులు

- 1) (3వ తరగతి నుండి 8వ తరగతి వరకు గల ఆంధ్రప్రదేశ్ తెలుగు వాచకాలలో పాఠ్యభాగ విషయాలు)
- A) కవి పరిచయాలు
 - B) పాత్రలు
 - C) ఇతి వృత్తాలు
 - D) సందర్భాలు
 - E) నేపథ్యాలు

F) విద్యా ప్రమాణాలు

2) పదజాలం:-

- A) అర్థాలు
- B) పర్యాయపదాలు
- C) నానార్థాలు
- D) వ్యుత్పత్త్యర్థాలు
- E) జాతీయాలు
- F) సామెతలు - వివరణ, గుర్తించడం.
- G) పొడుపు కథలు

3) భాషాంశాలు:

- A) విభక్తి ప్రత్యయాలు
- B) ఔపవిభక్తికాలు
- C) పారిభాషిక పదాలు - (ద్రుత ప్రకృతికాలు, కళలు, ఆప్రేడితం, సంధి, వచనాలు, కాలాలు, లింగాలు, సమాసం, ఆగమం, ఆదేశం, బహుళం)
- D) సంధులు - తెలుగు సంధులు- (అత్వ, ఇత్వ, ఉత్వ, యడాగమ, సరళాదేశ, ఆప్రేడిత, ద్వీరుక్తటకార, గసడదవాదేశ సంధులు.)
సంస్కృత సంధులు- (సవర్ణదీర్ఘ, గుణ, యణాదేశ, వృద్ధి సంధులు.)
- E) సమాసాలు - (ద్వంద్వ, ద్వీగు, తత్పురుష సమాసాలు)
- F) ఛందస్సు - గణవిభజన, గణాల గుర్తింపు
- G) అలంకారాలు -
వృత్త్యనుప్రాస, ఛేకానుప్రాస, అంత్యానుప్రాస (శబ్దాలంకారాలు) ఉపమా, ఉత్పేక్ష, అతిశయోక్తి (అర్థాలంకారాలు). అలంకారాలు గుర్తించుట, లక్ష్య లక్షణ సమన్వయం చేయుట.
- H) వాక్యాలు- (అశ్చర్యార్థక, విద్యర్థక, నిషేధార్థక, అనుమత్యర్థక, సామర్థ్యార్థక, సందేహార్థక, ఆశీర్వాదార్థక, ప్రార్థనార్థక, ప్రశ్నార్థక, హేత్వర్థక, కర్తరి, కర్మణి వాక్యాలు)

తెలుగు బోధనా పద్ధతులు: 5 మార్కులు

ప్రాథమికస్థాయిలో భాషాభివృద్ధి మరియు అవగాహన

- 1) తెలుగు భాషా బోధన, ఉద్దేశాలు, విలువలు, లక్ష్యాలు, స్పష్టికరణలు.
- 2) భాష - సమాజం - సాహిత్య ప్రక్రియలు
- 3) మాతృభాష స్వభావం, నిర్మాణం, ప్రాధాన్యత, భాషోత్పత్తివాదాలు, ధ్వని, అర్థ విపరిణామాలు
- 4) పాఠ్యపుస్తకాలు - బోధన శాస్త్రంపై అవగాహన
- 5) భాషా సామర్థ్యాలు విద్యా ప్రమాణాలు
- 6) బోధనా పద్ధతులు - బోధనాభ్యసన ప్రక్రియల నిర్వహణ
- 7) ప్రణాళికా రచన
- 8) బోధనాభ్యసన సామాగ్రి
- 9) ఆంధ్రప్రదేశ్ లో భాషాభివృద్ధి కార్యక్రమాలు
- 10) భాష - మూల్యాంకనం

(OR)

Urdu

Content: 10 Marks

I جماعت سوم تا جماعت ہشتم تک درسی کتب کا نصاب شامل ہے۔

- A - شعراء و ادباء کا تعارف
- B - اسباق میں موجود مختلف کرداروں کا پس منظر موقع و محل کا جائزہ
- C - تعلیمی معیارات

II لفظیات

- A - معنی
- B - مترادفات
- C - ذومعنی
- D - سابقے، لاحقے
- E - محاورے

III زبان شناسی : اردو زبان کے عناصر

- 1 - کلمہ، مستقل کلمہ
- 2 - ضمیر اور اسکے اقسام
- 3 - رموز و اوقاف
- 4 - فعل حال کے اقسام
- 5 - زمانے
- 6 - حروف سنیسی اور قمری

- 7 - مفرد اور مرکب لفظ
- 8 - مرکب توصیفی
- 9 - تضاد
- 10 - تفسیر -

Methodology: 05 Marks

تختانوی سطح پر زبان کی ترقی اور فہم

سال اول :-

- 1 - تختانوی سطح پر زبان کی استعدادوں کی ترویج
- 2 - درسی کتب - طریقہ تدریس کا فہم
- 3 - کمرہ جماعت کا منصوبہ - اکتساب زبان احتساب

سال دوئم :-

- 1 - زبان اور سماج
- 2 - زبانی استعدادوں کی ترقی کرنا
- 3 - زبانی وسائل اور اس کا استعمال
- 4 - زبان کی ترقی و ترویج کی کارکردگیاں
- 5 - اکتساب زبان - متوقع نتائج
- 6 - زبان - طریقہ تدریس کا انعقاد تختانوی سطح پر منصوبے
- 7 - زبان کی جانچ

(OR)

Tamil

Content: 10 Marks

1. 3ஆம் வகுப்பிலிருந்து 8ஆம் வகுப்புவரை தமிழ்ப் பாடப்புத்தகத்திலுள்ள அனைத்தும்.

(3லிருந்து 8ஆம் வகுப்பு பாடங்களுக்கு தொடர்புடைய பாடப்பொருள் 10ஆம் வகுப்புவரை கேட்கப்படும்)

அ) கவிஞர், புலவர் ஆசிரியர் குறிப்பு ஆ) கதாபாத்திரங்கள் இ) முன்கருத்து
ஈ) இடம்சுட்டு வாக்கியம் உ) பின்னனி

2. சொல்லாக்கம் :

அ) சொற்பொருள் ஆ) ஒரு பொருள் குறித்த பலசொல்
இ) பலபொருள் குறித்த ஒரு சொல் ஈ) இருபொருள் உ) சேர்த்து
எழுதுக
ஊ) பிரித்து எழுதுக ஏ) வழக்கு ஏ) வழு ஐ) மரபுத்தொடர்
ஒ) பிறமொழிசொல்லுக்கு தமிழ்ச்சொல்
ஐ) பழமொழி (விளக்கம், அடையாளம் காண்) ஒள) நிறுத்தற்குறிகள்

3. மொழித்திறன் :

அ) தொகைநிலைத் தொடர்கள் (வேற்றுமை தொகை, வினைத்தொகை, பண்புத்தொகை, உவமைத்தொகை, உம்மைத்தொகை, அன்மொழித்தொகை)

ஆ) புணர்ச்சி (தோன்றல், கெடுதல், திரிதல், உடம்படு, மெய்யீறு, உயிரீறு, பண்புப்பெயர், குற்றியலிகரம், குற்றியலுகரம்)

இ) யாப்பு (அசை, சீர், அடி, தொடை, தளை, எழுத்து)

ஈ) அணி (இயல்பு நவீர்சி அணி, உயர்வு நவீர்சி அணி, உவமை அணி, எடுத்துக்காட்டு உவமை அணி, உருவக அணி, பிறிது மொழிதல் அணி, தற்குறிப்பேற்ற அணி, வேற்றுமை அணி, பின்வரு நிலையணி)

உ) ஆகுபெயர் (ஆகுபெயரின் 16 வகைகள்)

ஊ) தொடர்கள் (தன்வினை, பிறவினை, செய்வினை, செயப்பாட்டு வினை, உணர்ச்சி, கட்டளை, எதிர்மறை, உடன்பாடு, நேர்க்கூற்று, அயற்கூற்று, தனிநிலை, கலவைத்தொடர்)

Methodology: 05 Marks

தமிழ்மொழி கற்பித்தல் முறைகள்:

முதலாம் ஆண்டு D.Ed.

- * தமிழ் மொழித்திறன் வளர்த்தல்
- * மொழியின் இயல்பும் கற்பித்தலும்
- * அடிப்படைத் திறன்கள்
- * பாடங்களை கற்பித்தல்
- * பயிற்று முறைகள்
- * கற்பித்தல் திறன் வளர்த்தல்
- * பாடங் கற்பிப்புத் திட்டம்

இரண்டாம் ஆண்டு D.Ed.

- * தமிழ் மொழித்திறன் வளர்த்தல்
- * பாட ஏற்பாடு
- * சொற்களஞ்சியம் பெருக்குதல்
- * உயர்நிலைத் திறன்கள்
- * பிழை ஆய்வும் குறை களைதலும்
- * தமிழ் கற்பித்தலில் தகவல் தொழில்நுட்பம்
- * தேர்வும் மதிப்பீடும்.

(OR)

Kannada

Content: 10 Marks

- 3 ರಿಂದ 8 ನೇ ತರಗತಿಗಳ ಕನ್ನಡ ಪಠ್ಯಪುಸ್ತಕಗಳು, ಪೂರಕ ಪಾಠಗಳಲ್ಲಿನ ವಿಷಯಗಳು :
ಕವಿ - ಕಾವ್ಯಗಳು, ಲೇಖಕರು - ಕೃತಿಗಳು ಮತ್ತು ನಾಟಕಗಳ ಪರಿಚಯ, ಪಾಠದ ವಿವರಣೆ, ಹಿನ್ನೆಲೆ, ಪಾತ್ರಗಳ ಪರಿಚಯ, ಸಂದರ್ಭಗಳು, ಸನ್ನಿವೇಶಗಳು.
- ಪದ ಸಂಪತ್ತು - ಅರ್ಥಗಳು, ನಾನಾರ್ಥಗಳು, ಸಮನಾರ್ಥಕ ಪದಗಳು, ವ್ಯುತ್ಪತ್ತಿ ಅರ್ಥಗಳು, ನುಡಿಗಟ್ಟುಗಳು ಮತ್ತು ಲೋಕೋಕ್ತಿಗಳು - ವಿವರಣೆ, ಗುರ್ತಿಸುವುದು.
- ಭಾಷಾಂಶಗಳು :
 - 1) ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು
 - 2) ಪಾರಿಭಾಷಿಕ ಪದಗಳು
 - 3) ವಚನಗಳು, ಲಿಂಗಗಳು, ಕಾಲಗಳು, ಸಮಾಸಗಳು, ಒಗಟುಗಳು.
 - 4) ಸಂಧಿಗಳು - ಕನ್ನಡ ಮತ್ತು ಸಂಸ್ಕೃತ ಸಂಧಿಗಳು, ಲಕ್ಷಣಗಳನ್ನು ಗುರುತಿಸುವುದು.
 - 5) ಸಮಾಸಗಳು- ಸಮಾಸಗಳನ್ನು ಗುರ್ತಿಸುವುದು, ವಿಗ್ರಹವಾಕ್ಯ ಮಾಡುವುದು, ಲಕ್ಷಣಗಳನ್ನು ಸಮನ್ವಯಗೊಳಿಸುವುದು.
 - 6) ಛಂದಸ್ಸು - ಮಾತ್ರಾಗಣ, ಅಕ್ಷರಗಣಗಳ ಗುರ್ತಿಸುವಿಕೆ.
 - 7) ಅಲಂಕಾರಗಳು - ವೃತ್ತಾನುಪಾಸ, ಛೇದಾನುಪಾಸ, ಅಂತ್ಯಪಾಸ (ಶಬ್ದಾಲಂಕಾರ) ಉಪಮೆ, ಉತ್ಪೇಕ್ಷೆ, ರೂಪಕ, ದೃಷ್ಟಾಂತ (ಅರ್ಥಾಲಂಕಾರ) ಅಲಂಕಾರಗಳನ್ನು ಗುರ್ತಿಸುವುದು, ಲಕ್ಷಣಗಳನ್ನು ಸಮನ್ವಯ ಗೊಳಿಸುವುದು.
 - 8) ವಾಕ್ಯಗಳು - ಭಾವಸೂಚಕ, ವಿದ್ಯರ್ಥಕ, ನಿಷೇಧಾರ್ಥಕ, ಸಂಭವನಾತ್ಮಕ, ಪ್ರಶ್ನಾರ್ಥಕ, ನಕಾರಾತ್ಮಕ, ಕರ್ತರಿ, ಕರ್ಮಿಣಿ ವಾಕ್ಯಗಳು

Methodology: 05 Marks

ಕನ್ನಡ ಭಾಷಾ ಬೋಧನಾ ಪದ್ಧತಿಗಳು (3 ಅಂಕಗಳು)

- 1) ಕನ್ನಡ ಭಾಷಾ ಬೋಧನೆ ಮತ್ತು ಬೋಧಕ : ಬೋಧನೆಯ ಉದ್ದೇಶಗಳು ಮತ್ತು ಗುರಿಗಳು, ವಿಧಾನಗಳು
- 2) ಭಾಷಾ ಕೌಶಲ್ಯಗಳು : ವಾಚನ ಕೌಶಲ್ಯ - ಉದ್ದೇಶಗಳು, ಪ್ರಕಾರಗಳು, ಮಹತ್ವ, ಓದುಗಾರಿಕೆಯನ್ನು ವಿಧಾನಗಳು, ಗಮನಿಸಬೇಕಾದ ಅಂಶಗಳು, ಧ್ವನಿಗುಣಗಳ ಉತ್ಪಾದನಾ ಕಾರ್ಯ.
- 3) ಲೇಖನ ಕೌಶಲ್ಯಗಳು : ಲೇಖನ ಕೌಶಲ್ಯ - ಉದ್ದೇಶಗಳು - ಕಲಿಸುವ ಕ್ರಮಗಳು - ಗಮನಿಸಬೇಕಾದ ಅಂಶಗಳು - ದೋಷಗಳ ನಿವಾರಣೋಪಾಯಗಳು.
- 4) ಮಾತುಗಾರಿಕೆ : ಉದ್ದೇಶಗಳು- ಉತ್ತಮ ಪಡಿಸುವ ಚಟುವಟಿಕೆಗಳು - ದೋಷಗಳು ಮತ್ತು ನಿವಾರಣೆ ಉಪಾಯಗಳು
- 5) ಬೋಧನಾ ಪದ್ಧತಿಗಳು : ಪದ್ಯ ಬೋಧನೆ ಮಹತ್ವ - ಬೋಧಿಸುವ ಕ್ರಮ - ಪದ್ಧತಿಗಳು , ಗದ್ಯ ಬೋಧನೆ - ಮಹತ್ವ - ಕ್ರಮ - ಪದ್ಧತಿಗಳು, ವ್ಯಾಕರಣ ಬೋಧನೆ - ಮಹತ್ವ - ಉದ್ದೇಶ - ಗುರಿಗಳು - ಪದ್ಧತಿಗಳು - ವಿಧಾನಗಳು
- 6) ಪಠ್ಯಕ್ರಮ ರಚನೆ : ತತ್ವಗಳು - ಗಮನಿಸಬೇಕಾದ ಅಂಶಗಳು - ರಾಷ್ಟ್ರೀಕರಣ - ವಾಚನಾಲಯ
- 7) ಬೋಧನಾ ಸಂಪನ್ಮೂಲಗಳು : ಬೋಧನೋಪಕರಣಗಳ ಮಹತ್ವ - ಪಾತ್ರ - ವರ್ಗೀಕರಣ - ಬೋಧನೋಪಕರಣಗಳನ್ನು ಬಳಸುವ ರೀತಿ .
- 8) ಮೌಲ್ಯಮಾಪನ : ಭಾಷಾಭಿವೃದ್ಧಿಯನ್ನು ಅಳೆಯಲು ವಿವಿಧ ಮೌಲ್ಯ ಮಾಪನ ಪರೀಕ್ಷೆಗಳು- ಮೌಲ್ಯಮಾಪನ ವಿಧಗಳು - ನೀಲ ನಕ್ಷೆ

(OR)

Odiya

Content: 10 Marks

- 1) ତୃତୀୟଶ୍ରେଣୀଠାରୁଅଷ୍ଟମଶ୍ରେଣୀପର୍ଯ୍ୟନ୍ତସାହିତ୍ୟପାଠ୍ୟବହି ଅନ୍ତର୍ଗତ :-
ବିଷୟବସ୍ତୁ, କବି/ଲେଖକପରିଚୟ, ବିଭିନ୍ନଚରିତ୍ର, ପୃଷ୍ଠଭୂମି, ପୂର୍ବାପରପ୍ରସଙ୍ଗ,
ବୈଶିଷ୍ଟ୍ୟ, ବିଭିନ୍ନଶିକ୍ଷାମାନସହଅନୁୟ
- 2) ଶବ୍ଦଭଣ୍ଡାର :-
ପାଠ୍ୟାଂଶଭିତ୍ତିକଶବ୍ଦାର୍ଥ, ଭିନ୍ନାର୍ଥ, ମୌଳିକତଥାପୁନଃଶବ୍ଦ, ଶବ୍ଦରଗଠନଧାରା ,
ଲିଙ୍ଗ, ପୁରୁଷ, ବଚନ, ସାଧାରଣଅଶୁଦ୍ଧିଶବ୍ଦ, ପ୍ରତ୍ୟୟଶବ୍ଦ, ବିପରୀତାର୍ଥ, ଭିନ୍ନଜାତୀୟଶବ୍ଦ,
ଏକପଦରେପ୍ରକାଶ
- 3) ଭାଷାପ୍ରକରଣ:-
ବିଶେଷ୍ୟ, ବିଶେଷଣ, ସର୍ବନାମ, କ୍ରିୟା, ଅବ୍ୟୟ, ସନ୍ଧି, ସମାସ, ଛନ୍ଦ,
ଅଳଂକାର, ବାକ୍ୟରପ୍ରକାରଭେଦ, ଆଦିର ସଂଜ୍ଞା, ସ୍ୱରୂପ, ଗଠନରୀତି ଓ ପ୍ରକାର ଭେଦ

Methodology: 05 Marks

- 1) ପ୍ରାଥମିକସ୍ତରରେମାତୃଭାଷାଶିକ୍ଷାଦାନରଗୁରୁତ୍ୱ , ଲକ୍ଷ୍ୟ ଓ ଉଦ୍ଦେଶ୍ୟ
- 2) ଭାଷାକୌଶଳ
- 3) ଶିକ୍ଷଣ କାର୍ଯ୍ୟଭିତ୍ତିକ ପାଠଯୋଜନା
- 4) ଶିକ୍ଷାଦାନପଦ୍ଧତି
- 5) ମୂଲ୍ୟାୟନ [CCE]

PART - V

Language – II English (Marks: 10)

1. Poets, Essayists, Novelists, Dramatists and their works
2. Forms of Language - Story, Essay, Letter writing, Editorial, Precis writing, note-making, autobiography and biography
3. Pronunciation - Sounds - Use of dictionary
4. Parts of Speech
5. Tenses
6. Types of Sentences
7. Articles and Prepositions

Methodology - English (Marks: 05)

1. Aspects of English:- (a) English language - History, Nature, Importance, Principles of English as Second Language (b) Problems of Teaching / Learning English.
2. Objectives of Teaching English.
3. Phonetics
4. Development of Language skills:- (a) Listening, Speaking, Reading & Writing (LSRW) (b) Communicative skills.
5. Approaches, Methods, Techniques of teaching English: Introduction, Definition and Types of Approaches, Methods and Techniques of Teaching English, Remedial Teaching.
6. Teaching of Structures and Vocabulary items.
7. Teaching Learning Materials in English
8. Lesson Planning
9. Curriculum & Textbooks
10. Evaluation in English language

PART - VI

Mathematics Content (10Marks)

I. Arithmetic

Day to Day Mathematics, Pre Mathematical concepts - Money & Time, Percentage, Interest, Profit and loss, Time and Work. Ratio and Proportion - Applications of Ratio- Comparing Quantities using proportion -Direct and Inverse proportion

II. Number System

Numbers – four fundamental operations (addition, subtraction, multiplication & division)
Patterns in Numbers.

Knowing Our Numbers-Indian & international systems – Rounding of numbers- Natural numbers - Whole Numbers - Playing With Numbers-divisibility rules-LCM & HCF -Integers - Fractions - Decimals -Rational Numbers -Squares, cubes, Square roots, Cube roots

III. Geometry

Shapes– Patterns - Basic geometrical ideas - Measures of Lines and Angles - Symmetry - Understanding 3D, 2D Shapes -Representing 3D in 2D-Lines and Angles -Triangle and Its Properties -Congruency of Triangles- -Quadrilaterals - Practical Geometry -Construction of Triangles - Construction of Quadrilaterals - Exploring Geometrical Figures. History of geometry.

IV. Mensuration

Spatial understanding -Length – Weight – capacity - Perimeter & Area of Plane Figures (triangle, square, rectangle, rhombus, circle, trapezium, parallelogram) Surface area and volume of cube, cuboid, cylinder.

V. Algebra

Introduction to Algebra- Simple Equations- - Algebraic Expressions - Exponents & Powers - Linear Equations in one variable – polynomial – Factorization.

VI. Statistics

Data handling - Frequency Distribution Tables and Graphs. Grouped data and ungrouped data.

Maths Methodology (05Marks)

1. Nature and Definitions of Mathematics
2. Aims, values and instructional objectives of teaching Mathematics
3. Methods of Teaching & Remedial measures in Mathematics
4. Instructional Material, TLM and Resource Utilization in Mathematics
5. Curriculum, Text Book & Instructional Planning.
6. Evaluation and Continuous Comprehensive Evaluation

PART - VII

Science Content (Marks: 10)

- 1. Living World** – Non Living and living organisms, life and its characteristics, Family, Members of the family, Changing family structure, Friends, Relations, Works, Games, Different games rules, Our Village, Mapping skills, Shelter, Things we make cloth, Travel, Find the way – direction, from village to Delhi, Public Institutions, House, Construction – Sanitation, Our Places, Our culture. Story of microbial world, Use full and harm full micro organisms. Air - Importance of air, composition of air, diseases spread through air and their prevention, air pollution - causes, its impact, and measures to prevent, Green House effect. Water - Importance, water resources, tanks, aquatic flora and fauna, Water pollution - causes, impact, measures to prevent, purification of water, drought, floods, Water cycle, Draught waste water Treatment. Weather, Climate, Soil our life, rain, floods, Cyclones, disaster management, Habitat, Movements in animals, Production of food from animals and plants, Agricultural operation, Cultivation of Crops, diseases to plants and control, improvement of crop yield storage, Preservation and protection of food and plant products, Classification of living organisms, Branches of Sciences, Recent trends in Science, Hybridization, animal husbandry.
- 2. Life processes** – Cell, cell organelles parts of plants and functions. Animals, different types of Animals, Animals base of our life, Our body parts, External, Internal parts of our body, Bones, Muscles, Sense organs, Organ systems in animals. Nutrition in plants and animals, excretion, respiration, reproduction, seed dispersal in plants control and coordination in organisms. Our food, food components, Nutritious food, Health, Cleanliness, Why do we fall ill? Balanced diet, Malnutrition. Midday Meals, food preservation methods, Wastage of food, How we get food, green revolution, Food Pyramid, Junk food, First Aid.
- 3. Natural Phenomena** – Changes around us separation of substances, fiber to fabric synthetic, atmospheric pressure, Materials, things, measurement of length, area, volume and time, CGS, SI units. Liquids, fibers, Plastics metals and non metals, matter, Acids and bases. Motion and time – Types of motions – force and friction, Energy, Forms of Energy - Energy resources, Renewable and non renewable resources, conservation of energy Temperature and its measurement. Electricity, Electric circuits, Current and its effects, Sound, reflection of light, Shadows, Playing with magnets, friction, force speed, velocity, combustion, fuels and flame. How to measure things, Coal, Petrol, Petroleum products.
- 4. Our Environment** - Bio diversity, Diversity in plants and animals, lets plant, trees, endangered, endemic species, Forest – Tribes – Tribal life – diversity in forests. Different Ecosystems, Ecology, Bio mass, A biotic, Biotic factors, Global Environmental Issues. Global warming, Acid rains, depletion of Ozone layer. Stars and Solar systems. River, Lively hood, Atmosphere – wind – safety measures.

Methodology: (05 Marks)

1. Nature, Scope, History and development of science.
2. Aims, Values, Objectives specifications of teaching Science, Academic Standards.
3. Methods, approaches and techniques of teaching science.
4. Teaching learning material, Improvised teaching aids.
5. Science curriculum, Text – book.
6. Assessment and Evaluation
7. Science laboratories.
8. Planning in science
9. Science Teacher
10. Science Fairs, Science clubs, Field – trips, Science museums.

PART - VIII

Social Studies Content - 10 Marks

Theme - I: Diversity on the Earth

Reading, Making and analysis of Maps – different kinds of maps. - Globe – A Model of the Earth - Land Forms of Andhra Pradesh Penamakuru, A Village in the Krishna Delta - Salakamcheruvu, A Village on the Plateau - Kunavaram ,Tribal Villages on the Hills -Rain and Rivers-Tanks and Ground Water – Oceans and Fishing – Continents – Europe – Africa – Energy from the Sun – Our Earth - Earth Movements and Seasons - The Polar Regions - Forests:Using and Protecting them - Minerals and Mining. Sun and Planets.

Theme - II: Production Exchange and Livelihoods

From Gathering Food to Growing food – The Earliest People - Agriculture in Our Times - Trade in Agricultural Produce - Trade in Agricultural Produce - Handicrafts and Handlooms - Industrial Revolution - Production in a Factory - A Paper Mill - Importance of Transport System – Safety measures - Money and Banking - Impact of Technology on Livelihoods - Public Health and the Government

Theme -III: Political Systems and Governance

Community Decision Making in a Tribe - Emergence of Kingdoms and Republics - First Empires - Democratic Government - Village Panchayats - Local Self – Government in Urban Areas - New Kings and Kingdoms - The Kakatiyas - Emergence of a Regional Kingdom - The Kings of Vijayanagara - Mughal Empire - Establishment of British Empire in India - Landlords and Tenants under the British and the Nizam - National Movement - The Early Phase 1885-1919 - National Movement - The Last Phase 1919-1947 - Freedom Movement in Hyderabad State - The Indian Constitution - Parliament and Central Government - Making of Laws in the State Assembly - Implementation of Laws in the District - Law and Justice.

Theme -IV: Social Organization and Inequities

Diversity in Our Society - Towards Gender Equality -Caste Discrimination and the Struggle for Equalities - Livelihood and Struggles of Urban Workers - Abolition of Zamindari System - Understanding Poverty - Rights Approach to Development

Theme - V: Religion and Society

Religion and Society in Early Times - Devotion and Love towards God - Folk – Religion - Devotional Paths to the Divine - Social and Religious Reform Movements - Understanding Secularism

Theme -VI: Culture and Communication

Language, Writing and Great Books - Sculptures and Buildings - Rulers and Buildings - Performing Arts and Artistes in Modern Times - Film and Print Media - Sports: Nationalism and Commerce. Historical sites – Forts - Our Country – World, Our constitution, Child rights. Indian History and Culture.

Methodology: (05 Marks)

1. Nature, Scope, History and development of Social.
2. Aims, Values, Objectives specifications of teaching Social, Academic Standards.
3. Methods, approaches and techniques of teaching Social.
4. Teaching learning material, Improvised teaching aids.
5. Social curriculum, Text – book.
6. Assessment and Evaluation
7. Social laboratories.
8. Planning in Social
9. Social Teacher
10. Fairs, Clubs, Field – trips, museums