



TEACHER ELIGIBILITY TEST – 2021

PAPER-I-B

Structure and Content (all compulsory)

i)	Child Development and pedagogy (in Special Education)	30 MCQs	30 Marks
ii)	Language I (Tel/Urdu/Hindi/Kannada/Tamil/ Odiya)	30 MCQs	30 Marks
iii)	Language II (English)	30 MCQs	30 Marks
iv)	Mathematics	30 MCQs	30 Marks
v)	Environmental Studies	30 MCQs	30 Marks
Total		150 MCQs	150 Marks

i. Child Development and Pedagogy (in Special Education) (30 Marks)

(Classes I to V) in Special Education:

Child Development:

- Nature of Child development
- Principles and approaches of growth and development
- Theories of learning
- Methods of child study
- Individual differences

Pedagogy in Special Education

- Characteristics and educational needs of Children with Special Needs
- Types and approaches to assessment of Children with Special Needs
- Curriculum Development and Curricular adaptations
- Concept of Individual Educational Plan and Individualised Family Services Plan
- Teaching strategies for Children with Special Needs

Education Commissions and Policy (School Education)

- Constitutional provisions on education that reflect National Ideals: Equality, liberty, secularism, and social justice
- National Commissions and Policies: Education Commission (1964), NPE and POA (1986, 1992), National Policy for Persons with Disabilities (2006)
- National Acts: RCI Act, 1992, PWD Act, 1995, NT Act, 1999, RTE Act (2009 & 2012). RPWD Act 2016
- Programmes and Schemes: IEDC (1974, 1983), SSA (2000, 2011), RMSA, 2009, IEDSS, 2009
- International Conventions and Policies: Salamanca Declaration and Framework, 1994; UNCPRD, 2006; MDG, 2015; INCHEON strategies

ii. Language - 1 (Tel/Urdu/Hindi/kannada/Tamil/Odiya)

తెలుగు (30 మార్కులు)

విషయము (24 మార్కులు)

1. పఠనావగాహన :

ఎ) అపరిచిత పద్యం బి) అపరిచిత గద్యం

2. తెలుగు వాచకాలలోని:

ఎ) కవి పరిచయాలు బి) విశేషాంశాలు సి) నేపథ్యాలు, ఇతి వృత్తాలు

3. పదజాలం:

ఎ) అర్థాలు బి) పర్యాయపదాలు సి) ప్రకృతి - వికృతులు
డి) జాతీయాలు ఇ) సామెతలు ఎఫ్) పొడుపు కథలు

4. భాషాంశాలు :

ఎ) భాషాభాగాలు బి) కాలాలు సి) లింగాలు
డి) విరామ చిహ్నాలు ఇ) వచనాలు ఎఫ్) పారిభాషిక పదాలు

(అచ్చులు, హల్లులు, ఉభయాక్షరాలు, ద్విత్వ, సంయుక్తాక్షరాలు, పరుషాలు, సరళాలు, అనునాసికాలు, ఊష్మములు, అంతస్థాలు, కళలు, ద్రుత ప్రకృతికములు)

ఎఫ్) సంధులు - నిర్వచనాలు

తెలుగు సంధులు - అత్వ, ఇత్వ, ఉత్వ, యదాగమ సంధులు

సంస్కృత సంధులు - సవర్ణదీర్ఘ, గుణ, యణాదేశ, వృద్ధి సంధులు

సంధులకు సంబంధించిన పదాలను విడదీయడం, సంధి చేయడం.

జి) సమాసాలు - నిర్వచనాలు

విగ్రహవాక్యాలను గుర్తించడం, విగ్రహవాక్యాలను సమాస పదాలుగా కూర్చడం.

హెచ్) ఛందస్సు - గురు, లఘువుల లక్షణాలను గుర్తించడం.

ఐ) అలంకారాలు - పాఠ్యపుస్తకమునందలి అలంకారాలు గుర్తించడం.

జె) వాక్యాలు - రకాలు - సామాన్య, సంయుక్త, సంశ్లిష్ట వాక్యాలు గుర్తించడం.

తెలుగు బోధనా పద్ధతులు : 6 మార్కులు

ఎ) భాష - మాతృభాష - మాతృభాషా బోధనా లక్ష్యాలు

బి) భాషా నైపుణ్యాలు - సాధించాల్సిన సామర్థ్యాలు

సి) బోధనా పద్ధతులు

డి) ప్రణాళిక రచన - వనరుల వినియోగం

ఇ) బోధనాభ్యసన ఉపకరణాలు

ఎఫ్) మూల్యాంకనం - నిరంతర సమగ్ర మూల్యాంకనం (నిర్మాణాత్మక, సంగ్రహణాత్మక)

(OR)

(OR)

Urdu: 30 Marks

Content: 24 Marks

I مطالعہ کا فہم : (A) ان دیکھا نثر
(B) ان دیکھی نظم

II جماعت اول تا ہشتم تک کی درسی کتابیں
(A) شعراء و ادباء کا تعارف
(B) سوانح حیات اور ان کے ادبی کارنامے
(C) اسباق
(D) اردو کے نثری اور شاعری (نظم) کے اصناف

III لفظیات و زبان شناسی (صرف اسباق سے تعلق رکھنے والے)
لفظیات : (A) معنی
(B) مترادفات
(C) اضداد
(D) محاورے

IV زبان شناسی :

(A) زبان کے حصے
(B) زمانے
(C) جنس
(D) رموز و اوقاف

(E) علم ہجا (حروف چھپی، حروف علت، حروف صغیر، حروف کشی و قری)
(F) سہلے اور لائق
(G) کلمہ اور اس کے اقسام
(H) اسم اور اس کے اقسام
(I) ضمیر اور اس کے اقسام
(J) صفت اور اس کے اقسام

Methodology: 06 Marks

تحتاوی سطح پر زبان کی ترقی و تنہیم
سالی اول :- (1) زبان - سانج
(2) تحتاوی سطح پر زبان کی استعدادوں کی ترقی
(3) درسی کتابیں - علم تدریس کا فہم
(4) منصوبہ کمرہ جماعت - زبانی اکتساب - احتساب

سالی دوم :- (1) زبان کی تدریس - بچے
(2) زبان کی استعدادوں کی ترویج کرنا
(3) زبان کے وسائل اور اس کا استعمال
(4) زبان کی ترقی کی کارکردگیاں
(5) زبان کے اکتساب متوقع نتائج - حکمت عملیاں

(OR)

Hindi : (30 Marks)

Content (24 Marks)

1. अवबोध : पठित - अपठित - पद्य - गद्य।
2. कवि - काव्य - रचनाकार (लेखक) रचनाएँ
3. वर्णमाला : स्वर, व्यंजन, भेद।

शब्दभेद: शब्द ध्वनियाँ, रूप, परिवर्तन के आधार पर विकारी और अविकारी शब्द।

वचन, लिंग, कारक काल, विराम चिह्न संधि, समास, विलोम शब्द, समान अर्थ, भिन्नार्थ, मुहावरे, कहावतें, लोकोत्तियों, उपसर्ग, प्रत्यय।

4. अकर्मक - सकर्मक क्रियाएँ, वाक्य-वाक्य भेद - कतृवाच्य, कर्मवाच्य भाववाच्य, वाक्य क्रम, घटना क्रम।
5. हिंदी पाठ्य पुस्तकें (द्वितीय भाषा) छठवीं से दसवीं कक्षा तक (उपवाचक और पठनहेतु सहित)

Methodology (6 Marks)

- * भाषा
- * भाषा का स्वरूप, साहित्य
- * भाषा अधिगम
- * भाषा शिक्षण के सूत्र
- * पाठ योजना
- * भाषा की शिक्षा और उपकरण
- * व्याकरण की शिक्षा
- * हिंदी में मूल्यांकन

(OR)

Kannada: (30 Marks)

(OR)

Content: (24Marks)

➤ ಪಠನಾವಗಾಹನೆ :

1. ಅಪರಿಚಿತ ಪದ್ಯ
2. ಅಪರಿಚಿತ ಗದ್ಯ

➤ 1 ರಿಂದ 8 ನೇ ತರಗತಿಗಳ ಕನ್ನಡ ಪಠ್ಯಪುಸ್ತಕಗಳು, ಪೂರಕ ಪಾಠಗಳಲ್ಲಿನ ವಿಷಯಗಳು.

ಕವಿ - ಕಾವ್ಯಗಳು, ಲೇಖಕರು - ಕೃತಿಗಳ ಪರಿಚಯ

➤ ಪದ ಸಂಪತ್ತು :-

ಕೇವಲ ಪಠ್ಯಭಾಗದಲ್ಲಿನ ಅರ್ಥಗಳು, ಸಮನಾರ್ಥಕ ಪದಗಳು, ನಾನಾರ್ಥಗಳು,
ತತ್ಸಮ - ತದ್ಭವಗಳು, ನುಡಿಗಟ್ಟುಗಳು, ಗಾದೆಗಳು, ಸಕರ್ಮಕ ಮತ್ತು ಅಕರ್ಮಕ ಪದಗಳು, ಲಿಂಗ,
ವಚನ, ಕಾಲಗಳು.

➤ ಭಾಷಾಂಶಗಳು :

1. ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು, ಲೇಖನ ಚಿಹ್ನೆಗಳು, ಪಾರಿಭಾಷಿಕ ಪದಗಳು, ಪುರುಷಗಳು,
(ಧ್ವನ್ಯಂಗಗಳು, ವ್ಯಂಜನಗಳು, ಸ್ವರಗಳು, ಅನುನಾಸಿಕಗಳು, ಸಂಯುಕ್ತಾಕ್ಷರಗಳು ಇತ್ಯಾದಿ.
2. ಸಂಧಿಗಳು : (ಕನ್ನಡ ಸಂಧಿಗಳು, ಸಂಸ್ಕೃತ ಸಂಧಿಗಳು)ಪದಗಳನ್ನು ಬಿಡಿಸಿ ಬರೆಯುವುದು,
ಪದಗಳನ್ನು ಸಂಧಿ ಮಾಡುವುದು.
3. ಸಮಾಸಗಳು : ವಿಗ್ರಹ ವಾಕ್ಯಗಳನ್ನು ಗುರುತಿಸುವಿಕೆ.
ವಿಗ್ರಹ ವಾಕ್ಯಗಳನ್ನು ಸಮಾಸ ಪದಗಳಾಗಿ ಬೋಡಿಸುವುದು.
4. ಛಂದಸ್ಸು : ಗುರು, ಲಘುಗಳ ಲಕ್ಷಣಗಳನ್ನು ಗುರುತಿಸುವುದು.
4. ಅಲಂಕಾರ : ಪಠ್ಯಪುಸ್ತಕದಲ್ಲಿನ ಅಲಂಕಾರಗಳನ್ನು ಗುರುತಿಸುವುದು.
5. ವಾಕ್ಯಗಳು(ಸಾಮಾನ್ಯ, ಸಂಯುಕ್ತ, ಮಿಶ್ರ ವಾಕ್ಯ)

(OR)

Methodology (6 Marks)

ಕನ್ನಡ ಭಾಷಾ ಬೋಧನಾ ಪದ್ಧತಿಗಳು

- 1) ಕನ್ನಡ ಭಾಷಾ ಬೋಧನೆ ಮತ್ತು ಬೋಧಕ : ಬೋಧನೆಯ ಉದ್ದೇಶಗಳು ಮತ್ತು ಗುರಿಗಳು, ವಿಧಾನಗಳು
- 2) ಭಾಷಾ ಕೌಶಲ್ಯಗಳು : ವಾಚನ ಕೌಶಲ್ಯ - ಉದ್ದೇಶಗಳು, ಪ್ರಕಾರಗಳು, ಮಹತ್ವ, ಓದುಗಾರಿಕೆಯನ್ನು ವಿಧಾನಗಳು, ಗಮನಿಸಬೇಕಾದ ಅಂಶಗಳು, ಧ್ವನಿಗಳ ಉತ್ಪಾದನಾ ಕಾರ್ಯ.
- 3) ಲೇಖನ ಕೌಶಲ್ಯಗಳು : ಲೇಖನ ಕೌಶಲ್ಯ - ಉದ್ದೇಶಗಳು - ಕಲಿಸುವ ಕ್ರಮಗಳು - ಗಮನಿಸಬೇಕಾದ ಅಂಶಗಳು - ದೋಷಗಳ ನಿವಾರಣೋಪಾಯಗಳು.
- 4) ಮಾತುಗಾರಿಕೆ : ಉದ್ದೇಶಗಳು- ಉತ್ತಮ ಪಡಿಸುವ ಚಟುವಟಿಕೆಗಳು - ದೋಷಗಳು ಮತ್ತು ನಿವಾರಣೋಪಾಯಗಳು
- 5) ಬೋಧನಾ ಪದ್ಧತಿಗಳು : ಪದ್ಯ ಬೋಧನೆ ಮಹತ್ವ - ಬೋಧಿಸುವ ಕ್ರಮ -ಪದ್ಧತಿಗಳು , ಗದ್ಯ ಬೋಧನೆ - ಮಹತ್ವ - ಕ್ರಮ - ಪದ್ಧತಿಗಳು, ವ್ಯಾಕರಣ ಬೋಧನೆ - ಮಹತ್ವ - ಉದ್ದೇಶ - ಗುರಿಗಳು - ಪದ್ಧತಿಗಳು - ವಿಧಾನಗಳು
- 6) ಯೋಜನೆಗಳ ರಚನೆ : ಪಾಠ ಯೋಜನೆ - ವಾರ್ಷಿಕ ಯೋಜನೆ - ಘಟಕ ಯೋಜನೆ - ರಚನೆಯಲ್ಲಿ ಅನುಸರಿಸಬೇಕಾದ ಅಂಶಗಳು - ವ್ಯತ್ಯಾಸಗಳು
- 7) ಪಠ್ಯಕ್ರಮ ರಚನೆ : ತತ್ವಗಳು - ಗಮನಿಸಬೇಕಾದ ಅಂಶಗಳು - ರಾಷ್ಟ್ರೀಕರಣ - ವಾಚನಾಲಯ
- 8) ಬೋಧನಾ ಸಂಪನ್ಮೂಲಗಳು : ಬೋಧನೋಪಕರಣಗಳ ಮಹತ್ವ - ಪಾತ್ರ - ವರ್ಗೀಕರಣ - ಬೋಧನೋಪಕರಣಗಳನ್ನು ಬಳಸುವ ರೀತಿ .

(OR)

(OR)

Tamil (30 Marks)
Content (24 Marks)

I. புரிந்துகொள்ளுதல் - விடையளித்தல்

அ) அறியாப் பத்தி ஆ) அறியாச் செய்யுள்

II. 3ஆம் வகுப்பிலிருந்து 8ஆம் வகுப்பு வரை தமிழ் பாடப் புத்தகத்திலுள்ள அனைத்தும்.

அ) ஆசிரியர் குறிப்பு (3ஆம் வகுப்பிலிருந்து 8ஆம் வகுப்புவரை)

ஆ) சிறப்பம்சங்கள் (3ஆம் வகுப்பிலிருந்து 8ஆம் வகுப்புவரை செய்யுள்)

சொல்லாக்கம் :

3ஆம் வகுப்பிலிருந்து 8ஆம் வகுப்புவரையுள்ள

அ) சொற்பொருள் ஆ) தொகைச்சொல் இ) பிரித்து எழுதுக

ஈ) சேர்த்துஎழுதுக உ) மரபுச் சொற்கள் ஊ) பிறமொழி சொல்லுக்கு தமிழ்ச்சொல்

ஏ) வழக்கு (பேச்சு, எழுத்து) ஏ) ஒரு பொருள் குறித்த பல சொற்கள்.

III. மொழித்திறன் :

3ஆம் வகுப்பிலிருந்து 8ஆம் வகுப்புவரையுள்ள

அ) எழுத்து (முதலெழுத்து, சார்பெழுத்து) ஆ) காலம் இ) பால் ஈ) இடம் உ) திணை
ஊ) மூவகைப்போலி ஏ) நால்வகைச்சொற்கள் ஏ) வேற்றுமை உருபுமட்டு ஐ) புணர்ச்சி
(இயல்பு, விகாரம்) ஒ) யாப்பு (அசைகளை அடையாளம் காணல்) ஓ) அணி செய்யுளில்
அமைந்துள்ள அணியை அடையாளம் காண்) ஔ) தொடர்கள் (செய்வினை, உணர்ச்சி,
கட்டளை, எதிர்மறை)

Methodology (06 Marks)

* தமிழ்மொழி கற்பித்தல் முறைகள் :

முதலாம் ஆண்டு D.Ed.

* தமிழ் மொழித்திறன் வளர்த்தல்.

* மொழியின் இயல்பும் கற்பித்தலும்.

* அடிப்படைத் திறன்கள் - பாடங்களைக் கற்பித்தல்.

* பாடம் கற்பிப்புத் திட்டம்.

இரண்டாம் ஆண்டு D.Ed.

* பாட ஏற்பாடு - சொற்களஞ்சியம் பெருக்குதல்.

* தமிழ் மொழித்திறன் வளர்த்தல்.

* தமிழ் கற்பித்தலில் தகவல் தொழில் நுட்பம்.

* தேர்வும் - மதிப்பீடும்.

(OR)

(OR)

Odiya:

Content (24 Marks)

1. ଅବବେଧ ପରୀକ୍ଷଣ :-

a) ଅପରିଚିତ ପଦ୍ମ b) ଅପରିଚିତ ଗଦ୍ୟ

2. ପ୍ରଥମ ଶ୍ରବଣରୁ ଅଷ୍ଟମ ଶ୍ରବଣ ପର୍ଯ୍ୟନ୍ତ ସାହିତ୍ୟ ପାଠ୍ୟବହି ଅନ୍ତର୍ଗତ :-

a) କବି /ଲେଖକ ପରିଚୟ b) ବିଷୟବସ୍ତୁର ବର୍ଣ୍ଣିତତ୍ତ୍ୱ

3. ଶବ୍ଦ ଭଣ୍ଡାର :- ପ୍ରଥମ ଶ୍ରବଣରୁ ଅଷ୍ଟମ ଶ୍ରବଣ ପର୍ଯ୍ୟନ୍ତ ପାଠ୍ୟଭିତ୍ତିକ :-

a) ଶବ୍ଦାର୍ଥ

b) ପ୍ରତିଶବ୍ଦ

c) ଭିନ୍ନ ଜାତୀୟ ଶବ୍ଦ

d) ବିପରୀତାର୍ଥ ବେଧକ ଶବ୍ଦ

e) ସମବେଚ୍ଚାରିତ ଶବ୍ଦ

f) ଯୁଗ୍ମ ଶବ୍ଦ

g) ପଦ୍ମ, ଗଦ୍ୟ ରୂପ

h) ଏକ ପଦରେ ପ୍ରକାଶ କର

i) ପୂର୍ବପଦ - ପରପଦ ଯେତେବେଳେ ନୂତନ ଶବ୍ଦ

4. ଭାଷା ପ୍ରକରଣ :-

a) ବର୍ଣ୍ଣମାଳାର ସ୍ୱରୂପ, ମାତ୍ରା, ଫଳା, ଯୁକ୍ତବ୍ୟଞ୍ଜନ, ସ୍ୱରଧ୍ୱନି ବ୍ୟଞ୍ଜନ ଧ୍ୱନି, ବିରାମ ଚିହ୍ନ

b) ପଦ ପ୍ରକରଣ – ବିଶେଷ୍ୟ, ବିଶେଷଣ, ସର୍ବନାମ, କ୍ରିୟା ଓ ଅବ୍ୟୟର ସଂଜ୍ଞା
– ପ୍ରକାର ଭେଦ

c) ସନ୍ଧି – ସଂଜ୍ଞା, ପ୍ରକାର ଭେଦ, ସନ୍ଧିବିଚ୍ଛେଦ, ସନ୍ଧି ଶବ୍ଦ ଗଠନ

d) ସମାସ – ସମାସର ନାମ, ସମସ୍ତ ପଦ, ବିଗ୍ରହ ବାକ୍ୟ

e) ଛନ୍ଦ – ସଂଜ୍ଞା, ପ୍ରକାର ଭେଦ, ଉଦାହରଣ

f) ଅଳଞ୍ଜାର – ସଂଜ୍ଞା, ପ୍ରକାର ଭେଦ, ଲକ୍ଷଣ, ଉଦାହରଣ

(ଅନୁପ୍ରାସ, ଯମକ, ଶ୍ଳଷୋଦିଶବ୍ଦାଳଞ୍ଜାରମାତ୍ର)

g) ବାକ୍ୟ – ପ୍ରକାର ଭେଦ, ସରଳ, ଯତୀଗିକ, ଜଟିଳ ଓ ମିଶ୍ରବାକ୍ୟ

Methodology :-

[6 Marks]

1) ପ୍ରାଥମିକ ସ୍ତରରେ ମାତୃଭାଷା ଶିକ୍ଷାଦାନର ଗୁରୁତ୍ୱ, ଲକ୍ଷ୍ୟ ଓ ଉଦ୍ଦେଶ୍ୟ

2) ଭାଷାଗତ ଦକ୍ଷତାର ବିକାଶ

3) ପାଠ୍ୟପୁସ୍ତକ ଏବଂ ଶିକ୍ଷାଦାନ ପଦ୍ଧତି

4) ପାଠ୍ୟଯୋଜନା ଓ ବିଭିନ୍ନ ଶିକ୍ଷଣ ଉପକରଣର ବିନିଯୋଗ

5) ମୂଲ୍ୟାୟନ[CCE]

iii. Language - II (English)

English : (Content and Methodology) (Marks: 30)

Content : 24M

VOCABULARY	LEVEL OF TESTING
Synonyms	Identification
Antonyms	Identification
Homophones	Identification
Homonyms	Identification
Spelling	Spelling
Phrasal Verbs	Identification of Meaning
Word Formation	Suffixes and Prefixes
GRAMMAR	LEVEL OF TESTING
Helping Verbs	Forms, Contractions
Modal Auxiliaries	Form, Function & Contractions
Ordinary Verbs	Form, Function & Contractions
Articles	Use of Articles
Prepositions	Simple Prepositions Including Prepositions following Certain Words
Clauses	Main Clauses, sub-ordinate Clauses, Noun Clauses, If Clauses, Relative Clauses
Sentence Structures	Basic Sentence Structures
Degrees of Comparison	Form, Function, Construction, Transformation
Language Functions	Language Functions with social norms (School and domestic context)
Question Tags	Imperatives and Statements
Types of Sentences	Types of Sentences
Direct Speech & Indirect Speech	Statements, Questions, Imperatives
Active Voice & Passive Voice	Active Voice & Passive Voice
Tenses	Use of tenses and framing including IF conditionals Type 1 & 3
Agreement between subject & Verb	Agreement between subject & Verb
Word Order	Word Order in a phrase or a sentence
Parts of Speech	Nouns, Pronouns, Adjectives, Adverbs, Conjunctions - Types and functions
Linkers	Linkers
Transformation of Sentences	Simple, Compound and Complex Sentences
Common Errors	Based on all Vocabulary and Grammar Topics
MECHANICS OF WRITING	LEVEL OF TESTING
Punctuation and Capitalization	Use of capital letters, comma, full stop, question mark and exclamation mark
DISCOURSES	LEVEL OF TESTING
Writing of Discourses	Letter Writing, Diary writing, Description
DICTIONARY SKILLS	LEVEL OF TESTING
DICTIONARY SKILLS	DICTIONARY SKILLS
READING COMPREHENSION	LEVEL OF TESTING
Prose	Prose (general)

Methodology : 6M

METHODOLOGY	LEVEL OF TESTING
<ol style="list-style-type: none">1. Aspects of language (English Language History, Nature, Importance, Principles of English as Second language and problems of Teaching / learning English)2. Objectives of Teaching English3. Development of language Skills (Listening, Speaking, Reading and Writing Communicative Skills and Imparting values through Communication)4. Approaches, Methods and Techniques of Teaching English (Introduction, Definition, Types of Approaches, Methods and Techniques of Teaching including Remedial Teaching)5. Teaching of Structures, Vocabulary and Grammar6. teaching Learning Materials in English7. Lesson Planning8. Curriculum and Textbooks – importance and need9. Evaluation in English Language	Detailed and deep understanding with application in broader sense

iv. Mathematics

iv) Mathematics (30 Marks)

Content (24Marks)

I. Numbers :

Numbers – four fundamental operations (addition, subtraction, multiplication, division) -Knowing our Numbers & International system – Prime and composite numbers-Rounding of numbers - Whole Numbers-Playing with Numbers - Divisibility rules – Factors- Methods of prime factorization-Co-primes- twin primes- LCM-HCF- negative numbers- integers-Fractions-Decimals- Rational Numbers- Squares- Cubes- Square Roots and Cuberoots-Profit and Loss .

II. Mensuration :

Length -Weight -Capacity -Time -Money - Area and Perimeter of Triangle- Square-Rectangle- Rhombus- Circle- Trapezium- Parallelogram - The perimeter for square and rectangle through pattern - Surface area and volume of Cube and Cuboid.

III. Geometry :

Naming of the given figures and Parts of 2D figures of Triangle, Square and Rectangle -Identification and counting of Edges- Corners- Faces (3D figures)-Introduction of Perimeter and Area of given shapes- Geometrical patterns (TANGRAM)-Introduction of circle- center, diameter and radius-Primary Geometry concepts (Point, straight line, line segments, ray)-Types of angles (Right, Obtuse & Acute angles)-Open & closed figures- Symmetry- line symmetry & rotation symmetry ($\frac{1}{2}$, $\frac{1}{4}$)- Picture patterns- Area and Perimeter- Lines and Angles,-Triangle and its properties - Congruency of Triangles- Quadrilaterals- Practical Geometry- Construction of Traingles-Construction of Quadrilaterals- Exploring Geometrical Figures.

IV. Data Handling:

Reading and interpreting the Data (Bar graphs, picto graphs)- Analysis of the data with tallymarks- Collection & organisation of data -Representation of Data .

V.Algebra:

Patterns – making rules-Introduction of variables - Expressions with variables & Rules-Number forms of even and odd($2n$, $2n+1$)- Introduction to unknowns- Simple equations - Algebraic expressions- Exponents & Powers- Linear Equations in one variable-Factorization.

VI.Arithmetic:

Comparing quantities using proportion -Concept and applications of Ratio-Proportion of equality ratios - Unitary method- Understanding ratios & Proportions - Direct and Inverse proportion.

Mathematics Methodology (D.El.Ed.) (06 Marks)

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

V. Environmental Studies

Science:

CONTENT (Marks: 12)

1. Living World:

Non Living and living Organisms - Plants and Animals- Classification of plants- Plant - Parts and Functions - Flower to seed- Seed Germination- Diversity in Plants- Life cycle of a plant- food for plants- Animals around us- Classification of animals- Group behavior of animals- Animals diversity (based on ecological conditions)-movements in animals- animal husbandry-Family - Changing family structure - family life -usage of home appliances- Methods of Agriculture - Traditional, Modern, Organic-Agriculture &Tools-economy- Agricultural operation – Cultivation of Crops- diseases to plants and control- improvement of crop yield storage- Preservation and protection of food and plant products- Hybridization

Climate change - drought, deforestation, ecosystem- Weather- Climate- Soil our life- rain- floods- Cyclones- disaster management

Air - Importance of air-composition of air- atmospheric pressure- diseases spread through air and their prevention-air pollution - causes, its impact and measures to prevent- Green House effect

Water - Forms of water -Water resources - Rivers, lakes, canals in A.P and India- How to save water- Need and Importance of water- methods of water conservation- Process of producing and procuring water - Water cycle - ways to keep water resources hygienic- Story of river Krishna- Major rivers in AP- Reasons behind river pollution and its adverse effects- drought and floods- Rain water harvesting -Shelter - Importance of shelter- the places of living in neighbourhood- types of houses- Homeless people- Diversity of shelters depending on climate-Homes of Animals , Insects and Birds- Concern for animals and birds- Organisms and Habitat- Classification of living organisms- Story of microbial world-Useful and harmful micro organisms- Why do we fall ill?- Branches of Sciences- Recent trends in Science- Games and Recreation.

2. Life processes :

Our Body - Body parts - Sense organs - functions - care & safety measures,-Human body systems,-Major organ systems- FirstAid- Movement and Locomotion - Functions of muscles and bones- Different types of joints- Cartilage,tendon and ligament- Process of movements in animals- Locomotion in birds, snakes,fish and snails- Nutrition in Plants- Cell, cell organelles- parts of plants and functions- Nutrition in plants and animals- excretion-respiration control and coordination-reproduction- seed dispersal in plants- control and coordination in organisms- Our food-Foods available around us - Food from plants and animals- Need of food- Mid-Day Meal- Process of cooking food and preservation- Different food items- Food ingredients- Methods of preparing food- Tasty Food- Food habits- food components- Nutritious food-Health- Cleanliness- Balanced diet- Malnutrition- Food Pyramid- Junk food- Good Touch and Bad Touch.

3. Natural Phenomena :

Materials – classification of materials-separating methods - Magnets - Playing with magnets- Measurements -Different measuring instruments- Standard units of measurements- Precautions while measuring -Fabrics -Different types of fabrics- Characteristics and uses- Changes around us- separation of substances –Plastics, metals and non metals- matter- Acids and bases- Motion and time- 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- friction- force- speed- velocity- combustion- fuels and flame- How to measure things- Coal- Petrol- Petroleum products.

4. Transportation and Communication:

Transportation –Objects- signs and signboards used for transport- Places associated with transport- Modes of travel in the present and in the past- Methods of transport in different topographical conditions- Need for an international transport -Import and export of the goods- different means of transport of goods- Importance of tourism and seven wonders of the world- How communication and transport brings the entire world together-Means and objects of Communication- Types of Communication both in Human and Animals (different feelings and gestures) Modern forms of communication- Communication used in the past and present- Advantage of Mass Communication- Communication through Postcard, Cell Phone and Internet etc.,

5. Professions and Services:

House hold materials with reference to profession (farmer, cobbler, tailor etc)-Different professions and their need to the society- villager/farmer (seeds/manure/ agri methods etc.), helping agents (bank, e- seva, PHC, panchayat office, post office/etc.,)

6. Our Environment:

Bio diversity- Diversity in plants and animals- let's plant- trees- endangered, endemic species- Forest – Tribes – Tribal life – diversity in forests- Different Ecosystems- Ecology- Bio mass- Abiotic, Biotic factors- Global Environmental Issues-Global warming- Acid rains- depletion of Ozone layer- Stars and Solar systems- River- Lively hood- Atmosphere – wind – safety measures – Historical sites – Our Country – World, Our constitution, Child rights.

Methodology: (3 Marks)

1. Concept and scope of Environmental Studies (Science)
2. Aims & Objectives of teaching Environmental Studies (Science)
3. Academic Standards of Teaching EVS Relation to Science
4. Curriculum and its transactional process –Teaching Methodology
5. Teaching Learning Material (TLM)
6. Evaluation procedures – CCE.

Social Studies (Content 12 Marks):

Theme - I: Our Universe:

Neighbours and Neighbourhood -Sides, directions and corners- Landmark Symbols-understanding the Maps- Globe – A Model of the Earth- Identifying the Continents and Oceans on the Globe- latitudes and Longitudes - Earth Movements and Seasons - Geographical structure of the earth and its diversity- Land Forms of Andhra Pradesh -Rain and Rivers-Tanks and Ground Water – Oceans and Fishing – Continents – Europe – Africa –The Polar Regions - Forests: Using and Protecting them - Minerals and Mining- Solar System - Celestial bodies like Sun, Moon and Stars.

Theme - II: Production Exchange and Livelihoods

From Gathering Food to Growing food – The Earliest People - Early Civilization - 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

Emergence of Kingdoms and Republics - First Empires - Government - Village Panchayats - Local Self Government - Kingdoms and Empires - 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 Organisation 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.

Methodology: 03 Marks

1. Nature and Scope of Social Studies
2. Aims, Objectives and Values of Teaching Social Studies
3. Methods of Teaching Social Studies
4. Resource Utilization, Content Enrichment material
5. Curriculum, Text Book and Instructional Planning
6. Evaluation and Continuous Comprehensive Evaluation