3RD 10 - தமிழ் தொடர் நம்பி

முறை: 1. குருக்களால் தரப்பட்ட புதியகால நூற்றாண்டு நொய்யல்
2. குருக்களால் அன்றாலவல்கள் யுவோர் அன்றாலவல்கள் வைத்தியல் வல்லாம்பிய

முறை - I (முனைப்பணிகள் - 20) பங்கு - 1

6 X 1 = 6

1. குருக்களால் தரப்பட்டுள்ள புதியகால நூற்றாண்டு நொய்யல்.......
   a) பாரம்பரியம்
   b) கல்லறை
   c) மறைகற்பிய

2. குருக்களால் தரப்பட்டுள்ள புதியகால நூற்றாண்டு
   நொய்யலின் குறுக்களை தவற்றிருந்தவர்கள் - புதியகால நொய்யலின் தொகுதி
   a) குருக்கள்
   b) வழிகாட்ட
   c) சிற்றுறை

3. குருக்களால் தரப்பட்டுள்ள கால தொன்மை
   a) கவிஞர்
   b) மறைகற்பிய
   c) சிற்றுறை

4. குருக்களால் தரப்பட்டுள்ள கால தொன்மை
   a) தமிழ்
   b) சிற்றுறை
   c) காண்டை

5. புதியகால நொய்யலின் வைத்தியல் வல்லாம்பிய
   a) பாரம்பரியம்
   b) கல்லறை
   c) மறைகற்பிய

6. வைத்தியல் வல்லாம்பிய குருக்களால் பிரதானமாயிருக்கும்
   வல்லாம்பியத்தில் குருக்களால் பதிவு செய்யும் வல்லாம்பிய

6 X 1 = 6

7. என் என், என், என் என் காலத்தின் வல்லாம்பிய வல்லாம்பிய வல்லாம்பிய
8. என் என் வல்லாம்பிய வல்லாம்பிய
9. என் என் வல்லாம்பிய வல்லாம்பிய
10. என் என் வல்லாம்பிய வல்லாம்பிய
11. என் என் வல்லாம்பிய
12. என் என் வல்லாம்பிய

முறை - 3

4 X 1 = 4

13. என் என் வல்லாம்பிய
14. என் என் வல்லாம்பிய
15. என் என் வல்லாம்பிய
16. என் என் வல்லாம்பிய

முறை - 4

4 X 1 = 4

17. என் என் வல்லாம்பிய
18. என் என் வல்லாம்பிய
19. என் என் வல்லாம்பிய
20. என் என் வல்லாம்பிய

முறை - II (முனைப்பணிகள் - 20) பங்கு - 1

5 X 2 = 10

முறை - 2

5 X 2 = 10

முறை - I

3RD 10 TAMIL - I Page - 1
31. குறுக்கைகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்؟

32. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

33. சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

34. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

35. சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

36. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

37. சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

38. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

39. சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

40. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

41. சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

42. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

43. சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

44. தொடர்விளையாட்டுகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

45. பதில்வகுத்த புரிந்துள்ள விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்.

46. பதில்வகுத்த புரிந்துள்ள விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்.

47. (a) குறுக்கைகள் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

48. (a) சூழன் வல்லுவியல்த் தன்மையைப் பற்றும் விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்?

49. பதில்வகுத்த புரிந்துள்ள விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்.

50. பதில்வகுத்த புரிந்துள்ள விளையாடும் ரீதியான தேர்வு மற்றும் தொடர்புகள்.
பதிப்பு:

1. மேலூர் - சிற்றூரையிலை பாலானியில் நடைபெற்ற பாலானி

2. நீலகிரிகோவலை விளக்கம்

3. வருடக் கீழ் முனைவர்

4. சுமார் - சென்றையில் விளக்கம்

5. பருத்தி விளங்கியவும் பாலானியில்

6. மேலூர் விளக்கம் - கிளைநீலவை சென்றையில் தொடர்பில்

7. வாழ்க்கை விளங்கும் வனத்துறை

8. "பாலானி" விளக்கம் - விளக்கம்

9. வருடக் கீழ் முனைவர்

10. சிற்றூரையிலை பாலானி

பகுதி - 3

11. வருடக் கீழ் முனைவர் - வருடக் கீழ் வனத்துறை

12. மேலூர் - மேலூர் விளக்கம்

13. சிற்றூரையிலை பாலானி

14. மேலூர் மிளகல் விளக்கம்

15. மேலூர் விளக்கம்

16. மேலூர் விளக்கம்

17. மேலூர் விளக்கம்

18. பாலானி விளக்கம்

19. பாலானி விளக்கம்

20. பாலானி விளக்கம்

பகுதி - II (பாலானி 10)

21. பாலானி விளக்கம் - வனத்துறை

22. மேலூர் விளக்கம்

23. சிற்றூரையிலை விளக்கம்

24. சுமார் விளக்கம்

25. பாலானி விளக்கம்

26. மேலூர் விளக்கம்

27. பாலானி விளக்கம்

பகுதி - III (பாலானி 50)

28. பாலானி விளக்கம்

29. சுமார் விளக்கம்

30. பாலானி விளக்கம்

பகுதி - 2

31. பாலானி விளக்கம் - வனத்துறை

3Rd 10 TAMIL - II Page - 1
32. कुंवर अपनी पीठावर बसलेन्या सलाह घेतलेन्या लागतेच. 3 + 2 = 5
33. अंश पहुँचतो ताहेवर आघात नसेल. असे व्हिलने सुरू झालेले लागतेच. 3 + 2 = 5
34. ती पुत्रांना कोणते कामासाठी सहाय्य करु? ती कोणते कामासाठी सहाय्य करू शकते? हाय, ती कामासाठी सहाय्य करू शकते. ती कामाच अवधारणा करते. 3 + 2 = 5
35. पारंदुर आणि डूबण्यासाठी गाव शहरसाठी आते. 64, 93, 161, 240 3 + 2 = 5
36. अन्यथा आपल्या लागताने लागतेच. 1 X 5 = 5
37. आपल्या वाचनात तिथीचा तिथीपन नाही, आपल्या लागतात तिथीचा तिथीपन नाही. 1 X 5 = 5
38. माफ करून तुम्हाकडे आला करून आला आला. 1 X 5 = 5
39. तुम्हांना आपल्या वाचनात तिथीचा तिथीपन नाही. तुम्हांना आपल्या वाचनात तिथीचा तिथीपन नाही. 1 X 5 = 5
40. तुम्ही तुम्हीच्या वाचनाच्या तिथीच्या तिथीपनात आहात. 1 X 10 = 10
41. तुम्ही तुम्हीच्या वाचनाच्या तिथीच्या तिथीपनात आहात. 1 X 10 = 10
THIRD REVISION TEST - 2014
ENGLISH PAPER - I
Marks: 100

1. Write the synonyms for the following.
   - Cricket is a game of exacting (i) mistress. Players have to discharge (ii) their duty with herculean (iii) effort. In the initial (iv) stage, it was played for fun. Now, it has become an indispensable (v) sport played for the country.
   - a) exciting  b) demanding  c) decreasing  d) exceeding
   - ii) carried out  b) give out  c) call out  d) carry
   - iii) weak  b) hurry  c) strong  d) big
   - iv) final  b) starting  c) ending  d) income
   - v) unimportant  b) inessential  c) demanding  d) essential

2. Choose the correct antonyms for the following.
   - Birds migrate from foreign (i) land to India. Birds are active (ii) voyagers. It is a fascinating (iii) sight to watch the V line of the birds. They panic (iv) during storm. They show the valour (v) to overcome their stress.
   - a) abroad  b) native  c) village  d) forlorn
   - ii) inactive  b) action  c) smart  d) attitude
   - iii) famous  b) fact  c) boring  d) interesting
   - iv) bold  b) pain  c) fear  d) scare
   - v) bravery  b) colour  c) vain  d) coward

PART - II

3. Which of the following is the right expansion of IPS?
   a) Indian political service  b) Indian police service c) Indian Public service d) Indian protection service

4. Choose the sentence that is correct in meaning.
   a) We are ready to die for the nation.  b) We are ready to die for the nation

5. Replace the underlined word with its equivalent American English word. Throw the waste into the dustbin.

6. Which of the words below can be placed after the word over to form a compound word?
   a) load  b) man  c) colour  d) work

7. What is the plural form of the word alumina?
   a) aluminous  b) aluminises  c) aluminis  d) aluminis

8. Attach a prefix before the word to complete the sentence.
   Raghu is always ______ regular in the class. a) ill  b) un  c) en  d) ir

9. Replace the underlined word with one of the phrasal verbs given below.
   They have decided to cancel the programme.
   a) call on  b) call off  c) call out  d) call in

10. Separate the syllables of any one of the following words.
    condition

11. Choose the appropriate word to make a meaningful sentence.
    Thomas Alva Edison ______ the electric bulb. a) discovered  b) invented

12. Construct a sentence using one of the words given below. a) obedient b) obediently c) obedience

13. Rewrite the sentence changing the underlined word as a noun. He wrote down what he observed.

14. Which of the sentence conveys the meaning? None but the director knows the exact date.
    a) Only the director does know the exact date. b) Only the director knows the exact date.

SECTION - II (GRAMMAR - PART - I)

15. Which of the options given below will suit the following sentence?
    If she had asked me, a) I will help her  b) I would help her. c) I would help her.

16. Identify the pattern of the following sentence. She lost her ring in the bus. a) SVOA  b) SOVC  c) SVIDO

17. Choose the correct question tag. You will come in time. a) won't you?  b) will you? c) won't you?

18. Complete the sentence. Coimbatore is ______ than Chennai. a) the coolest  b) as cool as  c) cooler

19. Choose the sentence which correctly conveys the meaning of the sentence.
   Neither Mani nor his brother voted for Gopal. a) only Mani voted for Gopal. b) both Mani and his brother did not vote for Gopal. c) only Mani's brother voted for Gopal.

20. Complete the sentence. ______ their best effort, they could not save him. a) in the event of b) in case of c) inspite of

21. Choose the correct verb form. The teacher made us ______ the work. a) do  b) to do  c) doing

22. Choose the appropriate article. They organised ______ awareness programme. a) a  b) an  c) the

23. Choose the correct preposition. The overbridge is still ______ repair. a) on  b) with  c) under

24. Choose the correct phrase to complete the sentence.
   Gopi was fined ______ without a licence. a) for driving  b) at driving  c) with driving

PART - II

25. Combine the two sentences to form a single sentence. You speak very fast. I can't follow you.

26. Rewrite the sentence using the voice. He recited all the poems correctly and they awarded him a prize.

27. Rewrite the sentence in direct speech.
   Naveen asked his brother if he would accompany him to the provision store.

28. Combine the two sentences given below form a single sentence using the 'if' clause.
   You speak kindly to all. I treat you with friendliness.

29. Read the following sentences. The purchase of dresses, in Kannan's family. Write an observation using any one of the degrees of comparison.
    a) Kannan's dress costs 1200.  b) Sharma's dress costs 1550.
    c) Ashwin's dress costs 1375.  d) Raj's dress costs 2100.  e) Radha's dress costs 950.

PART - III

30. Punctuate the following sentence.
    They should be studying but we keep showing them away to find water chaya says

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Section - III (Part - I)

31. What is the true identity of the beggar?
32. Why did art find a place, even in concentration camp?
33. What kind of character should you acquire while you are a student?
34. What according to Diwan Singh will happen if the rivers dwindle?
35. How should employers with a change in attitude treat their domestic workers?
36. What are the dangers faced by the migratory birds?
37. List the specialities of Tanjore.

PART - II

38. a) How did Alan Trevor help Hughie?
   b) Describe the daily routine of Chaya and her family.
   c) Describe briefly how birds migrate.

Section - IV (Part - I)

39. a) From : No walls for me .......... To : ................. boundaries to block. (OR)

Part - II

Read the following and answer the questions given below.

40. Perhaps a beautiful heart
   We never thought was there.
   a) What does the poetry mean by a ‘beautiful heart’?

41. If we cared for any meadows
   a) Whom does ‘we’ refer to?
   b) What will they do if they see any meadows?

Read the following lines from the poems and answer the questions given below.

42. To the old Sunday evenings at home, with winter outside.
   a) When does the poet sing?

43. I care not where the skies begin
   a) Where does the sky begin for the birds?

44. Only bloodshot eyes betray.
   a) Why are the eyes bloodshot?

45. i) The reddest flower would look as pale as snow.
   iv) That slowly dawned behind the trees,
       The barren boughs without the leaves.
   ii) Where an aching generosity
   v) Appearances can be deceptive,
       And to the superficial gaze
   iii) Steady throb, then staccato rhythm.
       The outside looks dull and grey
       Plain looking in many ways,

46. Write the figure of speech for the line.

47. Pick out the alliterated words.

48. Choose the rhyming words from the lines.

PART - IV

49. What is the rhyming scheme for the above lines?

Answer in a paragraph any one of the following.

50. a) What does the poet of ‘beautiful inside’ say about ‘inner beauty’?
   b) Describe the experience of the children on their way to the brook to seek water.
   c) How does the birds life differ from the life of human beings?

Section - V

51. Read the passage given below and answer the questions that follow.

With the advent of atomic weapons, the safety of nations is under constant threat. So, to safeguard the interest of the nations, several developing and under developed countries have to join one or the other of the power blocs. In the past four decades of its independence, India has been facing threats from other countries. It has been subjected to military aggressions by our immediate neighbours, namely, China, Pakistan and Sri Lanka. The western power blocs which very often express their grave concern about world peace, go on increasing their atomic stock pile. Therefore, a country has to join any one of the major powers.

Questions:
1. The word ‘advent’ means: a) birth b) rebirth c) introduction d) destruction
2. Why are the nations under constant threat?
3. Who are India’s immediate neighbours?
4. Since how long has India been facing threats from them?
5. Why has a country been forced to join any one of the major powers?

52. Spot the errors.
   1. One must not boast of his own talents.
   2. Everyone of the boys are present.
   3. Chennai is more hotter than Coimbatore.
   4. As he was tired so he could not walk fast.
   5. We should always help poor.

53. Translate the lines in English.

Look at the picture and answer the following questions.

i) What do you see in the picture?
ii) Who is taking the class?
iii) How many students are there in the picture?
iv) Are the students happy?
v) How is your teacher in the class?
THIRD REVISION TEST - 2014
ENGLISH PAPER - II

Time: 2.30 Hrs.

Section I (NON - DETAILED) Marks: 100

1. Fill in the blanks with the appropriate phrases.
The story of the unfinished ........ spread afar, and many men fancying themselves of ........ offered to pose as models for the ........ but in vain. The ........ looked for a face that serve to show Judas, enfeebled by surrender ........
a) to greed and lust  b) face of Judas  c) masterpiece  d) old painter  e) wicked countenance

2. Identify the characters or speaker.
i) He probably belongs to someone.  ii) She felt like a princess. iii) We’ll ring the fire brigade. iv) A full purse and lavish lifestyle. v) He asked the servants to offer him food.

3. Match the following:
i) Old Schwinn bike  a) Piano
ii) Luncel  b) Kumar
iii) Siblings  c) a science fiction invention
iv) Newspaper advertisement  d) Hubert
v) Magic trick  e) a small town

4. Complete the following sentences choosing the correct answer from the options.

i) The author found Sam on a wet day in ........ a) spring  b) summer  c) autumn  d) winter
ii) The 12 year old boy had the face of a dirty ........ a) child  b) angel  c) girl  d) baby
iii) The three thieves hid in a ........ a) cupboard  b) haystack  c) farm  d) valley
iv) I would be as happy as a ........ in a fish hop. a) dog  b) horse  c) cat  d) bird
v) Rex Coker’s brother was a ........ a) linker  b) child prodigy  c) hunter  d) lazy boy

5. Read the passage given below and answer the questions that follow.

A DC electric motor he bought from a local pawn shop for twenty bucks and the old battery out of Dad’s old Chevy were fast coming together. The motor was mounted on the main frame just below the bike’s seat. The battery was strapped down on the rack over the back tyre and fender. Two cables were run along the frame to a switch mounted on the cross bar between the handle bar drove the chain was now a pulley with the fan belt off, of an old yazo lawn mower.

Questions:
i) What did he buy in the local pawn shop?
ii) From where did he get the old battery?
iii) Where did he strap the battery?
iv) How were the two cables connected?
v) What replaced the sprocket?

6. Read the details in the mind map and complete the remaining details.

The sky was dotted with bird streamlined ‘V’ The migratory birds returned after ..................

Dad had hired him a ..................

He remembered his childhood picnic to ........

Birds enjoyed our ..................

They know that their home is in ..................

7. Answer in a paragraph any one of the following.
i) Describe the happy times Shelly had with Sam.
ii) Attempt a character sketch of Celine.
iii) What were the thoughts evoked in Kumar on watching the flight of birds?

Section II

8. Make notes of the following passage and prepare a summary using the note.

No study of English can be complete without a reference to a dictionary of idioms. Collins Dictionary of English idioms in very useful. In this dictionary, you will find clearly explained meanings of over three thousand common English idioms. To make the meaning even clearer, each idiom has an example sentence, which also helps to show you how the idiom can be used. In this dictionary the emphasis is on true idioms, i.e. expressions whose meanings cannot be easily worked out from the words they contain. When it comes to understanding English, it is these expressions which cause most difficulty to the learner. And also, there are great variations in the way these idioms are used; many of the variations are to be found in this dictionary. The main emphasis, however, is on the understanding of the meaning of the idioms, rather than attempting to be a complete guide to idiomatic usage.

9. Complete the dialogue.

Nazer  Where .................?
Pratab  I am going for coaching classes.
Nazer  Why .................?
Pratab  I am preparing for IAS exams.
Nazer  Pratab
Pratab  Good, .................
Nazer  .................

Section III

10. Write a dialogue with at least five utterances between a newspaper boy and a resident.

11. Aruna started to write a letter to her friend advising her to take care of her health and restrain from eating junk food. Help her to complete it.

My dear Prema,

..........................................................

Your loving friend
Aruna.

3RD 10 ENGL II PG 1
12. Prepare an advertisement using catchy slogans.
   i) Fans and AC's – to fan away sweat – beat the heat – best quality – 10% festival offer – guaranteed – contact – Paul's brothers – K.G. Main road Chennai. (OR)

Section - IV

13. Expand the headlines.
   i) Sachin awarded Bharath Ratna.
   ii) Mangalyan launched to Mars.
   iii) Republic day celebrated in schools.
   iv) Two killed in accident.
   v) Diabetic day celebrated on Nov. 14.

14. Study the chart and answer the questions given below.

<table>
<thead>
<tr>
<th>Year</th>
<th>Vehicle population</th>
<th>Total accidents</th>
<th>People killed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>79,66,200</td>
<td>53,678</td>
<td>9,760</td>
</tr>
<tr>
<td>2006</td>
<td>88,51,672</td>
<td>55,145</td>
<td>11,909</td>
</tr>
<tr>
<td>2007</td>
<td>90,07,155</td>
<td>59,140</td>
<td>12,036</td>
</tr>
<tr>
<td>2008</td>
<td>1,07,89,970</td>
<td>60,409</td>
<td>12,784</td>
</tr>
<tr>
<td>2009</td>
<td>1,18,20,613</td>
<td>60,784</td>
<td>13,746</td>
</tr>
<tr>
<td>2010</td>
<td>1,31,19,713</td>
<td>64,996</td>
<td>15,409</td>
</tr>
</tbody>
</table>

i) The chart presents a statistics for ........ years. a) 4  b) 5  c) 6  d) 7
ii) The highest number of accidents has been recorded in the year ....... a) 2007  b) 2008  c) 2009  d) 2010
iii) Which of these statements is false? a) 2005 has recorded the least number of accidents. b) 2010 has recorded the highest in vehicle population c) 2006 has recorded the most number of loss of lives. d) 2007 has recorded the highest number of accident.
iv) The least number of people killed has been recorded in the year ....... a) 2007  b) 2008  c) 2009  d) 2010
v) The year ........ shows the highest vehicle population. a) 2010  b) 2009  c) 2008  d) 2007

15. Write a paragraph in about 100 words on any one of the following topics.

16. Match the slogans with products.
   i) Bio diesel - buy now, pay later
   ii) Detergent - eco - friendly fuel
   iii) Credit card - the best policy
   iv) Foot wear - cleans the dirt
   v) Insurance - moon walk

17. Study the road map and direct a woman to the temple.

18. Read the poem and fill in the paraphrase.

   The Human Seasons

   Four seasons fill the measures of the year;
   There are four seasons in the mind of man;
   He has his lusty spring, when fancy clear
   Takes in all beauty with an easy span;
   He has his summer, when luxuriously
   Springs honeyed cud of youthful thoughts he loves
   His soul has in its Autumn, when his wings
   He furleth close; contented so to look
   On mists in idleness - to let fair things
   Pass by unheeded as a threshold brook,
   He has his winter too of pale misfeature,
   Or else he would forego his mortal nature.

   seasons denote the four stages of man's life., He has his .......... spring in his childhood . He spent his summer springs honeyed .......... thoughts he loves'. His .......... has in its autumn contented and in idleness. Man looks pale in winter before he would forego his ..........

19. a) Translation.

   The following is an announcement in Tamil you hear while on the electric train. A foreign co - passenger is not able to understand it. Translate it into English for him.

   பெருமளை குட்டியை பாதுகாக்க பெயர் பெயர் முன்னிலை குட்டியை, மற்றைய பொருளானா பெருமளை.

   (OR) Describe the picture in not less than five lines.

   Play while play. Read while read.
THIRD REVISION TEST - 2014
MATHS

SECTION - I

Marks : 100

Choose the correct answer.

1. Given \( f(x) = (-1)^x \) is a function from N to Z. Then the range of \( f \) is
   a) \{1\}  b) N  c) \{1, -1\}  d) Z

2. If the third term of a G.P. is 2, then the product of first 5 terms is
   a) 5^2  b) 2^5  c) 10  d) 15

3. The common ratio of the G.P. \( a^{m-n}, a^m, a^{m+n} \) is
   a) \( a^m \)  b) \( a^{-m} \)  c) \( a^n \)  d) \( a^{-n} \)

4. If one zero of the polynomial \( P(x) = (K + 4)x^2 + 13x + 3K \) is reciprocal of the other, then \( K \) is equal to
   a) 2  b) 3  c) 4  d) 5

5. The square root of \( 49(x^2 - 2xy + y^2)^2 \) is
   a) 7\( |x - y| \)  b) 7\( (x + y)(x - y) \)  c) 7\( (x + y)^2 \)  d) 7\( (x - y)^2 \)

6. If \( A = \begin{pmatrix} 1 & -2 & 3 \end{pmatrix} \) and \( B = \begin{pmatrix} -1 \\ 2 \\ -3 \end{pmatrix} \) then \( A + B = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \)
   a) \( (0, 0, 0) \)  b) \( 0 \)  c) \(-14 \)  d) not defined

7. If \((1, 2), (4, 6), (x, 6)\) and \((3, 2)\) are the vertices of a parallelogram taken in order, then the value of \( x \) is
   a) 6  b) 2  c) 1  d) 3

8. The equation of a straight line having slope 3 and \( y \)-intercept -4 is
   a) \( 3x - y - 4 = 0 \)  b) \( 3x + y - 4 = 0 \)  c) \( 3x + y + 4 = 0 \)  d) \( 3x + y + 4 = 0 \)

9. If a straight line intersects the sides \( AB \) and \( AC \) of \( \triangle ABC \) at \( D \) and \( E \) respectively and is parallel to \( BC \), then
   \[ \frac{AE}{DE} = \frac{AD}{BC} = \frac{DE}{EC} \]
   a) \( \frac{12}{5} \)  b) \( 5 \)  c) \( 6 \)  d) \( 4 \)

10. If \( \tan \theta = \frac{a}{x} \) then the value of \( \frac{x}{\sqrt{a^2 + x^2}} \) is
    a) \( \cos \theta \)  b) \( \sin \theta \)  c) \( \csc \theta \)  d) \( \sec \theta \)

11. If \( 1 + \tan^2 \theta = \frac{a}{x} \) then the value of \( 1 + \cot^2 \theta \) is
    a) \( \cos^2 \theta \)  b) \( \tan^2 \theta \)  c) \( \sin^2 \theta \)  d) \( \cot^2 \theta \)

12. If the volume of a sphere is \( \frac{9}{16} \pi \text{ cu.cm} \), then its radius is
    a) \( \frac{4}{3} \) cm  b) \( \frac{3}{4} \) cm  c) \( \frac{3}{2} \) cm  d) \( \frac{2}{3} \) cm

13. For any collection of \( n \) items \( \sum x = \bar{x} \)
    a) \( n \bar{x} \)  b) \( (n - 2)\bar{x} \)  c) \( (n - 1)\bar{x} \)  d) 0

14. Probability of sure event is
    a) 1  b) 0  c) 100  d) 0.1

SECTION - II

Note: (i) Answer 10 question. (ii) Question number 30 is compulsory. Select any 9 questions from the first 14 questions.

15. Verify the commutative property of set intersection for \( A = \{l, m, n, o, 2, 3, 4, 7\} \) and \( B = \{2, 5, 3, -2, m, n, o, p\} \).

16. Let \( x = \{1, 2, 3, 4\} \). Examine whether each of the relations given below is a function from \( X \) to \( X \) or not. Explain \( g = \{(3, 1), (4, 2), (2, 1)\} \).

17. How many two digit numbers are divisible by 13?

18. If \( \alpha \) and \( \beta \) are the roots of equation \( 3x^2 - 6x + 4 = 0 \) find the value of \( \alpha^2 + \beta^2 \)

19. Construct a \( 2 \times 3 \) matrix \( A = \begin{pmatrix} a_{ij} \end{pmatrix} \) whose elements are given by \( a_{ij} = |2i - 3j| \).

20. Prove that \( A = \begin{pmatrix} 5 & 2 \\ 7 & 3 \end{pmatrix} \) and \( B = \begin{pmatrix} 3 & -2 \\ -7 & 5 \end{pmatrix} \) are inverses to each other under matrix multiplication.

21. If the centroid of a triangle is at \( (2, 3) \) and two of its vertices are \( (-9, 8) \) and \( (10, 7) \) then find the third vertex of the triangle.

22. Show that the straight lines \( 3x + 2y = 12 = 0 \) and \( 6x - 4y + 8 = 0 \) are parallel.

23. In \( \triangle ABC \) the internal bisector \( AD \) of \( \angle A \) meets the side \( BC \) at \( D \). If \( BD = 2.5 \text{ cm} \), \( AB = 5 \text{ cm} \) and \( AC = 4.2 \text{ cm} \), then find \( DC \).
25. Prove the following identities. \[ \frac{\sin(90^\circ - \theta)}{1 + \sin \theta} + \frac{\cos \theta}{1 - \cos(90^\circ - \theta)} = 2 \sec \theta. \]

26. A girl of height 200cm stands in front of a lamp post and casts a shadow of length \(200\sqrt{3}\) cm on the ground. Find the angle of elevation of the top of the lamp post.

27. A hollow sphere in which a circus motorcyclist performs his stunts, has an inner diameter of 7m. Find the area available to the motorcyclist for riding (\(\pi = \frac{22}{7}\)).

28. If the coefficient of variation of a collection of data is 57 and its S.D is 6.84, then find the mean.

29. Find the probability that a leap year selected at random will have 53 fridays.

30. Solve the following systems of equations using cross elimination method \(x + 2y = 7\), \(x - 2y = 1\) (OR)

The volume of a cone with circular base is 216 \(\pi\) cu.cm. If the base radius is 9cm, then find the height of the cone.

SECTION - III

Note: (i) Answer 9 questions. (ii) Question number 45 is compulsory. Select any 8 questions from the first 14 questions. 9 \(\times\) 5 = 45

31. In a town 85% of the people speak English, 40% speak Tamil and 20% speak Hindi. Also 42% speak English and Tamil, 23% speak Tamil and Hindi and 10% speak English and Hindi, find the percentage of people who can speak all the three languages.

32. Let \(A = \{6, 9, 15, 18, 21\}, B = \{1, 2, 4, 5, 6\}\) and \(f: A \rightarrow B\) be defined by \(f(x) = \frac{x - 3}{3}\) represent \(f\) by

(i) an arrow diagram  (ii) a set of ordered pairs  (iii) a table  (iv) a graph

33. The sum of three consecutive terms in an A.P is 6 and their products is 120. Find the three numbers.

34. Find the sum of \(1^2 + 2^2 + 3^2 + \ldots + 51^2\)

35. Factorize \(2x^3 + 7x^2 + 2x - 3\).

36. One year ago, a man was 8 times as old as his son. Now his age is equal to the square of his son's age. Find their present ages.

37. If \(A = \begin{pmatrix} 3 & 2 \\ -1 & 4 \end{pmatrix}, B = \begin{pmatrix} -2 & 5 \\ 6 & 7 \end{pmatrix}\) and \(C = \begin{pmatrix} 1 & 1 \\ -5 & 3 \end{pmatrix}\) verify that \(A(B + C) = AB + AC\).

38. If \(P(x, y)\) is any point on the line segment joining the points \((a, 0)\), and \((0, b)\) then prove that \(\frac{x}{a} + \frac{y}{b} = 1\) where \(a, b \neq 0\).

39. If the vertices of a \(\triangle ABC\) are \(A(-4, 4), B(8, 4)\) and \(C(8, 10)\). Find the equation of the straight line along the median from the vertex \(A\).

40. State and prove the Pythagoras theorem.

41. From the top of a 60m tall tower, the angles of depression of the top and the bottom of a building are observed to be 30° and 60° respectively. Find the height of the building.

42. If the total surface area of a solid right circular cylinder is 880 sq.cm and its radius is 7cm, find its curved surface area. (Take \(\pi = \frac{22}{7}\))

43. Prove that the standard deviation of the first \(n\) natural numbers is \(\sigma = \sqrt{\frac{n^2 - 1}{12}}\).

44. A box contains 10 white, 6 red and 10 black balls. A ball is drawn at random. Find the probability that the ball drawn is white or red.

45. Find the square root of \((x^2 - 25) (x^2 + 8x + 15) (x^2 - 2x - 15)\) (OR)

A cup is in the form of a hemisphere surmounted by a cylinder. The height of the cylindrical portion is 8 cm and the total height of the cup is 11.5 cm. Find the total surface area of the cup (Take \(\pi = \frac{22}{7}\))

SECTION - IV

Note: Answer both the questions choosing either of the alternatives. 2 \(\times\) 10 = 20

46. (a) Construct a \(\triangle ABC\) such that \(BC = 5\) cm, \(\angle A = 45^\circ\) and the median from \(A\) to \(BC\) is 4 cm (OR)
(b) Construct a cyclic quadrilateral PQRS with PQ = 4 cm, \(\angle P = 100^\circ\), \(\angle PQS = 40^\circ\) and \(\angle PQR = 70^\circ\).

47. (a) Draw the graph of \(y = 2x^2 + x - 6\) and hence solve \(2x^2 + x - 10 = 0\) (OR)
(b) A bank gives 10% SI on deposits for senior citizens. Draw the graph for the relation between the sum deposited and the interest earned for one year. Hence find
(i) The interest on the deposit of Rs. 650
(ii) The amount to be deposited to earn an interest of Rs. 45.

3RD 10 - Maths (E.M) Page - 2
THIRD REVISION TEST - 2014

SCIENCE

Time : 2.30 Hrs

I
Choose the correct answers.

1. Primitive man evolved in ................ a) Africa b) America c) Australia d) India
2. One of the following is transmitted through air find out. a) Tuberculosis b) Meningitis c) Typhoid d) Cholera
3. In spirogyra algae reproduction takes place by a) Fragmentation b) Binary fission c) Budding
4. Complete oxidation of a glucose molecule in aerobic respiration produces ATP molecules a) 18 b) 28 c) 38 d) 48
5. Example for fossil fuel is ................ a) Copper b) iron c) Magnesium d) Coal
6. The mixture of gases used by deep sea divers is .............. a) Helium-oxygen b) Oxygen - nitrogen
7. Vinegar is present in Acetic acid curd contains ............ acid a) Lactic acid b) tartaric acid
8. The amalgam used for dental filling is .............. a) Ag-sn amalgam b) cu-sn amalgam
9. An alloy used for making scientific instrument .......... a) Magnalium b) Duralumin b) Bronze
10. IUPAC name of acetic acid is ............ a) Ethanoic acid b) Methanoic acid c) Propanoic acid
11. The freezing of biotechnology products like vaccines require ........ freezing system. a) Helium b) Nitrogen c) Ammonia d) Chlorine
12. Kilowatt - hour is the unit of ............ a) Potential difference b) electric - power c) electric energy d) charge
13. .......... surface absorbs more heat than any other surface under indentical conditions. a) White b) Rough c) Black d) Yellow
14. The SI unit of power of a lens is ............ a) Dioptre b) Joule c) Roentgen
15. The magnification produced by a mirror is 1/3 then the type of mirror is ............ a) concave b) convex c) plane

II
Answer any (20) questions.

20 X 2 = 40

16. Sexually reproducing organisms produce offsprings with marked, significant and visible variation. A sexually reproducing offsprings show mirror variations.

17. A list of disorders are given below. Pick out the odd one out and give reasons. (Colour blindness, Albinism, Haemophilia, Night blindness, Albinism, Sickle cell anaemia)

18. Copy the diagram and label the parts given below.
A - seat of smell B - seat of vision

19. The important event of meiosis is the crossing over. It occurs during a) Leptotene b) Pachytene c) Diplotene d) Zygotene

20. The various endocrine glands found in different regions in man. Match the following.
i) Head - Thyamus gland
ii) Neck - Adrenal gland
iii) Thorax - Thyroid gland
iv) Abdoman - Pituitary gland

21. The methods of reproduction and the organisms are given below. Match the type of reproduction the suitable organisms.

Fission - Spirogyra Budding - Yeast
Fragmentation - Prototzoans fragmentation - flatworms
Bryophyllum - Bacteria

22. The tusks of elephants are modified ............

23. Based on relationship : fillup
Whale : Baleen plates; Bat ............

24. Normal Body temperature of man is ............ i) 98.4-98.6°F b) 96.6-98.6°F c) 94.4-98.6°F d) 98.4-99.6°F
ii) ........... quills of porcupine

25. Name the types of vascular tissues in the plant stem which are labelled as A and B.

26. Study the food chain below. Correct it and convert into a pyramid of energy mulberry -----> sparrow -----> caterpillar -----> kite.

27. Odd one out.
i. a) Bio-alcohol b) Green diesel c) Bio-ethers d) Petroleum
ii. a) Cholera-typhoid b) scabies c) dysentery

3RD 10 SCIENCE (E.M) PG-1
Which diseases affect the majority of population?
   a) Which diseases affect the majority of the population?
   b) How are these diseases transmitted?
   c) Write any three measures to control the other two diseases.
29. Which is a non-renewable resource? (coal, petroleum, natural gas, all the above, hydrogen, solar energy)
30. You have prepared a saturated solution of sugar. Is it possible to dissolve some more grams of sugar to the solution? Justify your stand.
31. Find the concentration of solution in terms of weight percent is 20 gram of common salt is dissolved 50 gram of water.
32. The hydrogen ion concentration of a solution 0.01. What is the pH of the solution. Calculate the pH value.
33. List out any two differences between atoms and molecules.
34. Why does the colour of the copper sulphate change when an iron nail is kept in it? Justify your answer.
35. A process employed for the concentration of sulphide ore is ..........
   a) froth flotation / gravity separation
36. Assertion : In thermit welding aluminium powder and Fe₃O₄ are used.
   Reason : Aluminium powder is a strong reducing agent. Does the reason satisfy the assertion?
   Write down the possible isomers and give their IUPAC names using the formula C₄H₁₀.
37. Correct the mistakes if any in the following statements,
   a) one newton is the force that produces an acceleration of 1m s⁻² in an object of 1 gram mass.
   b) action and reaction is always acting on the same body.
38. a) Liquid hydrogen is for rocket, then ........ for MRI ............
   b) What do you mean by cryogenic fuels?
39. Fill in the blanks: a) potential difference : Volt meter then current ...........
   b) power plant: conventional source of energy then solar energy ...........
40. Fuse wire is made up of ............ which has high resistance and ............
41. Draw the schematic diagram of an electric circuit consisting of a battery of two cells of 1.5 V each. Three resistance of 5 ohm, 10 ohm, and 15 ohm respectively and a plug key all connected in series.
42. Correct the mistakes if any in the following statements,
   a) Magnetic field is a quantity that had magnitude only.
   b) The magnetic field lines emerge from the south pole and merge at the north pole.
43. Fill in the blanks:
   a) For a motor; a permanent magnet, then commercial motor ...........
   b) Focal length of a lens; metre then for power of a lens ............
44. a) ............ is the only telescope ever designed to be served in space by astronauts.
   b) The astronomers used the telescope to observe distance of ............
45. Write any four questions. Minimum any one of the each section.

SECTION I

46. Human evolution has a record of changes for the past of 15 million years.
   a) Name the different species of mankind in chronological order from primitive to modern man.
   b) When were the primitive people developed?
   c) Narrate the life led by early man like hominids.
47. There is a wide spread outbreak of malaria in your area.
   a) Suggest some controlling measures to the local authority concerned.
   b) Represent the classification of fruits in a diagrammatic sketch.
48. In your area there is scarcity of water due to this the people are affected. So what are the measure to be taken by you to meet out the scarcity of water.

SECTION II

49. Write the applications of Avagadro's law.
50. Fill in the blanks using suitable formula in the given table.

<table>
<thead>
<tr>
<th>No.</th>
<th>Alkane</th>
<th>Alkene</th>
<th>Alkyne</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C₂H₆ ethane</td>
<td>..........</td>
<td>C₂H₃ ethyne</td>
</tr>
<tr>
<td>2</td>
<td>..........</td>
<td>C₃H₆ propene</td>
<td>..........</td>
</tr>
<tr>
<td>3</td>
<td>C₄H₁₀ Butane</td>
<td>..........</td>
<td>C₅H₁₀ Butyne</td>
</tr>
</tbody>
</table>

ii) What is Esterification? Write with example.

SECTION III

52. Newton's first law of motion gives a qualitative
   a) definition of force justify:


53. Label the following in the given diagram given below
   a) Refracted ray
   b) Refracted ray
   c) Emergent ray
   d) Angle of Refraction
   e) Angle of deviation
   f) Angle of emergence

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3RD REVISION TEST - 2014
SOCIAL SCIENCE

Time : 2.30 Hrs.  Section - I  Part - I

Note: i) Answer all the questions. ii) Choose the correct answer.

1. The East India Company was formed in
   a) 1600  b) 1664  c) 1644  d) 1700

2. The first world war came to an end by the
   a) London peace conference  b) Rome peace conference  c) Berlin peace conference
   d) Paris peace conference

3. The Great Economic Depression began in
   a) England  b) U.S.A  c) France  d) Germany

4. During the great revolt of 1857 the Governor General of India was
   a) Lord Lytton  b) Lord Ripon  c) Lord Canning  d) Lord Wellesley

5. India is a country with an unbounded faith in
   a) War  b) Peace  c) Love  d) Enmity

6. The opposition party leader will be given the status of a
   a) Cabinet minister  b) Deputy minister  c) Minister of state  d) Council of ministers

7. Thembavami is related to
   a) Hinduism  b) Sikhism  c) Christianity  d) Islam

8. The highest Peak in India
   a) Mt. Everest  b) Mt. Godurin Austin  c) Mt. Kanchenjunga  d) Dhaulagiri

9. The mountains which lie parallel to the direction of the southwest monsoon wind is
   a) Aravali  b) Satpura  c) Vindhya  d) Maikala ranga

10. The crop that grows in drought is
    a) rice  b) wheat  c) jute  d) millets

11. The object under study is known as
    a) target  b) source  c) sensor  d) image

12. Per capita income is an indicator of
    a) Richness of people  b) Poverty of people  c) Living standard of people  d) Literacy of people

13. Bhooman Movement was started by
    a) Jayaprakash Narayan  b) Jawaharlal Nehru  c) Acharya Vinabhabhaye  d) Dr. Rajendra Prasad

14. As per 2001 census the literacy rate in India is
    a) 74.04%  b) 65.8%  c) 66.8%  d) 67.8%

Part - II

Match the following. Attempt both the following.

15. i) a) Federal Reserve Bank - Uttar Pradesh
     b) Kesari - Kamarajar
     c) Chauri chaura - Loans
     d) King maker - E.V. Ramasamy Periyar
     e) Vaikam Hero - Bala Gangadhar Tilak
     ii) f) Largest lake in Kerala - Uttar Pradesh
         g) Highest rainfall place - Panchayat
         h) Jute - Mausynram in Cherrapuji
         i) Sugar bowl in India - West Bengal
         j) Village roads - Vembanad

Part - II

Note: i) Answer any ten of the following questions in brief. ii) Choose four from part - I,
one from part - II, four from part - III, one from part - IV.

16. Write a note on Taiping Rebellion.
17. What are the organs of the league of nations?
18. Write a brief note on Munich Agreement.
19. What are the main objectives of the UNO?
20. Name the important readers and centres of the mutiny.
21. What are the services rendered by the Arya Samaj?
22. Mention some of the poems of Subramania Bharathiyar.
23. What are the aims of self respect movement?

Part - II

24. Why is world peace an essential one?
25. Name some of the religions of India.

Part - III

26. Name the Islands belongings to India.
27. What do you mean by monsoon?
28. What are the by products of jute industry?
29. Name the mica producing areas of India.
30. Why dry crops are grown?
31. What is water pollution?
32. State the merits of pipeline transport.
33. Write any two applications of GPS.

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Part - IV

34. What is percapita Income?
35. What is privatisation?

Section - III (Marks : 8)

Note : Distinguish between any four of the following.

36. GMT and IST.
37. Loo and Narwester.
38. Renewable and Non - renewable resources.
40. Mineral based and agro based industries.
41. Water pollution and land pollution.
42. Exports and imports.
43. Internal trade and international trade.

Note : Choose any two of the following and answer all the questions given under each caption.

44. Ambition of Germany
   a) Who was the ruler of Germany during first world war?
   b) What did he believe?
   c) What could not be tolerated by him?
   d) Where did he station a fleet?

45. Fascist party
   a) Who was the founder of fascist party?
   b) Give the slogans of mussolini.
   c) What were the aims of fascism?
   d) What was motto of fascism?

46. Revolt of central India
   a) Who led the revolt at central India
   b) Name the place captured by Rani Lakshmi Bai
   c) What her end?
   d) What did Tantia tope do?

47. The Mount Batten plan
   a) Who became the Governor General of India in 1947?
   b) Who was the last British Governor General?
   c) What was the Mount Batten plan?
   d) What was the reaction of the congress and muslim league?

Section - IV (Marks : 8)

Note : Answer all the four questions by selecting one option from each question.

48. a) Write a paragraph on Mussolini's aggressive foreign policy. (OR)
   b) What were the results of the second world war? (OR)
   c) Write a short note on Salt Sathyagraha.

Part - I

49. a) Write a short note on SAARC. (OR)
   b) Write a paragraph on National Integration. (OR)
   c) Write a paragraph on the right of consumers.

Part - II

50. a) Describe rain water harvesting. (OR)
   b) Classify the Indian roads and explain. (OR)
   c) Explain the various components of remote sensing.

Part - III

51. a) Explain two basic concepts of National Income. (OR)
   b) Explain Green Revolution. (OR)
   c) Explain the various power programs in Tamilnadu.

Section - V (Marks - 20)

Note : Answer all the four questions by selecting one option from each question.

52. Any five important event between the year 1885 to 1920.

Part - IV

53. a) Mark the following in the given outline map of Asia.
   i) Canton
   ii) Taiwan
   iii) Turkey
   iv) Sakhalin Island
   v) S. Korea
   (OR)

b) Mark the following in the given outline map of India.
   i) Mecrut
   ii) Cawnpore
   iii) Barrackpone
   iv) Jhansi
   v) Vellore

54. Mark any ten places / regions on the given outline map of India.
   i) Brahmaputra plain
   ii) Western Ghats
   iii) Vishakapatnam
   iv) Bilai
   v) Bengalure
   vi) Delhi - Kolkata railway line
   vii) Mt. Everest
   viii) Gulf of Mannar
   ix) Paddy growing area
   x) Alluvial soil
   xi) Thar desert
   xii) Mangrove forest
   xiii) Malwa plateau
   xiv) Aravalli range
   xv) Lakshadweep

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