SAMACHEER KALVI QUESTIONS

7th science with key answers

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http://www.trbtnpsc.com/2013/09/tnpsc-group-2-group-4-vao-exam-study.html
1. Choose the wrongly matched pair

<table>
<thead>
<tr>
<th>kingdom</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Monera</td>
<td>Cyanobacteria</td>
</tr>
<tr>
<td>B) protista</td>
<td>Laminaria</td>
</tr>
<tr>
<td>C) Fungi</td>
<td>Penicillium</td>
</tr>
<tr>
<td>D) plantae</td>
<td>Pinus</td>
</tr>
</tbody>
</table>

2. Choose the correct statement.

1) State of matter cannot be transformed into another state by changing temperature.
2) Gases can be compressed easily.

3. The area enclosed inside a square of side 1m is

A) One cube metre  B) One square metre  C) One cent  D) One kilometer

4. Mercury is …….. denser than water.

A) 13.6 times  B) 13.6 litre  C) 13.06 gram  D) 13.6 metre
5. Match the following

<table>
<thead>
<tr>
<th>Bee</th>
<th>Name of the bee</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Rock bee</td>
<td>1) Drones</td>
</tr>
<tr>
<td>B) Male bee</td>
<td>2) Apis florea</td>
</tr>
<tr>
<td>C) Little bee</td>
<td>3) Apis dorsata</td>
</tr>
<tr>
<td>D) Indian bee</td>
<td>4) Apis Indica</td>
</tr>
</tbody>
</table>

6. Match the following

<table>
<thead>
<tr>
<th>Plant</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Herns</td>
<td>1) Maize</td>
</tr>
<tr>
<td>b) Mesophytes</td>
<td>2) Paddy</td>
</tr>
<tr>
<td>c) Submegd Hydrophytes</td>
<td>3) Vallisneria</td>
</tr>
<tr>
<td>d) Floating Hydrophytes</td>
<td>4) Water lily</td>
</tr>
</tbody>
</table>

7. Choose the correct statement.
1) Carrot and radish are having tap root system.
2) Roots that grow from any part of the plant other than radical are called adventitious roots.
A) 1 only   B) 2 only   C) Both   D) None of these

8. Choose the wrongly matched pair.
A) Runners - Pumpkins
B) Phylloclade - Opuntia
C) Stolen - Grass
D) Stem tendril - Passion flower

9. The propounder of five kingdom classification is
A) T.H. Morgan   B) R.H. Whitaker   C) J.C. Bose   D) K.C. Muller

10. Choose the correct statements.
1) The incubation period for hens is 21 days.
2) The massive step taken in India to increase egg production by adopting enlightened practices of poultry is called silver revolution.

11. Choose the correct statements.
1) Lichens are organisms that consist of a fungus and algae. Fungus lives on Algae’s body.
2) In human digestive system amylase helps in the digestion of protein.

12. The heaviest organ of our body is
A) Skin     B) Skeletal System     C) Digestive System     D) Nervous System

13. Choose the wrongly matched pair.
Scientist                  Country
A) S. Hahnnemann          - German
B) Galen                  - Italy
C) C. Oersteel            - England
D) Hippo Crates           - Greek

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14. Which of the following is not correct about sidha Medicine?
   1) It is a Dravidian System of Medicine
   2) Sidha medicinal system was founded by a group of 18 spiritual people called Siddhars.
   3) Siva Peruman is the first siddhar.

15. Which of the following is not correct about Herbs?
   1) It has lots of branches.
   2) They do not have a main stem.
   3) They do not grow more than one metre in height
   4) They are non woody plants.

16. The cause of canker disease of Lemon is
   A) Bacteria       B) virus       C) Fungi       D) Protozoa

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17. Match the following

<table>
<thead>
<tr>
<th>Phylum</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Mollusca</td>
<td>1) Earthworm</td>
</tr>
<tr>
<td>b) Annelida</td>
<td>2) Sea cucumber</td>
</tr>
<tr>
<td>c) Aschelminthes</td>
<td>3) Hydra</td>
</tr>
<tr>
<td>d) Echinodermata</td>
<td>4) Ascaris</td>
</tr>
<tr>
<td>e) Coelenterate</td>
<td>5) Snail</td>
</tr>
</tbody>
</table>

**A)** 1 4 3 2 5  
**B)** 2 5 2 3 1  
**C)** 5 1 4 2 3  
**D)** 4 2 5 1 3  

18. Choose the wrongly matched pair.

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Columbea Livia</td>
<td>Pigeon</td>
</tr>
<tr>
<td>B) Musca Domestica</td>
<td>House fly</td>
</tr>
<tr>
<td>C) Lyco Persican Esculantum</td>
<td>Apple</td>
</tr>
<tr>
<td>D) Solanum Tuberosum</td>
<td>Potato</td>
</tr>
</tbody>
</table>

**A)** 1 4 3 2 5  
**B)** 2 5 2 3 1  
**C)** 5 1 4 2 3  
**D)** 4 2 5 1 3  

19. Unicellular and smaller multicellular animals give out carbon dioxide by
   A) Osmosis   B) Diffusion   C) Reverse osmosis   D) None of the above

20. Diaphragm is
   A) Sheet of Nerve   B) Sheet of Bones   C) Sheet of Muscle   D) None of the above

21. In a food chain carnivore belongs to which of the Trophic level?
   A) Second   B) Fourth   C) Fifth   D) Third

22. Temperate grassland is found in?
   A) Uttar Pradesh   B) Madhya Pradesh   C) Arunachal Pradesh   D) Himachal Pradesh

23. Nature Conservation day celebrated on
   A) November 10   B) November 15   C) November 20   D) November 25

24. World’s saltiest water body is
   A) Dead sea   B) Aral Sea   C) Lake van   D) Great salt lake
25. Choose the correct statements

1) Matter is anything that has mass and occupies space.
2) There is no difference in matters that has mass and occupies space.
A) 1 only  
B) 2 only  
C) both  
D) none of these

26. Choose the correct statements.

1) It is difficult to change the shapes of solides by compression
2) Compressed natural gas is used as a fuel in transport.
A) 1 only  
B) 2 only  
C) both  
D) none of these

27. Galvanization is

A) Coating of Tin over Iron  
B) Deposition of Chromium over Iron  
C) Deposition of Zinc over Iron  
D) None of the above

28. Choose the correct statement.

1) Banking soda tastes is sour.
2) Banking soda tastes is bitter.
A) 1 only  
B) 2 only  
C) both  
D) none of these
29. When reacts with base, beetroot juice gives which of the following colour
   A) Yellow       B) pink       C) blue       D) red

30. Which of the following used as an insecticide?
   A) Copper sulphate  B) Sodium carbonate  
   C) Potassium Nitrate  D) Ferrous sulphate

31. Base area x Height =?
   A) Cubic meter  B) Volume  C) Area  D) Square meter

32. First pendulum clock was designed by
   A) Galileo  B) Newton  C) Edison  D) Huygens

33. Value of Acceleration due to Gravity is
   A) 9.8 m/s²  B) 9.8 km/s²  C) 9.8 m/s²  D) 9.8 m²/s

34. Choose the correct statements.
   1) Human body is a best insulator.
   2) Oersted concludes that there is a magnetic field around current carrying conductor.
   A) 1 only  B) 2 only  C) both  D) none of these
1) மஞ்சள் வெளியும் பிள்ளையாருடன் பயிர்த்து உண்டு.

2) மலர்மாட்டுப் பெருமை கருவிய குழு காப்புகள் போர்ப்பது வரும் வரலாறு

A) 1 only  
B) 2 only  
C) both  
D) none of these

35. Match the following

Herbal Plants  
Disease cured
A) Pirandai - 1) Throat infection
B) Milagu - 2) Indigestion
C) Keczhanelli - 3) Cold, cough
D) Thuthvalai - 4) Jaundice

A) 2 1 3 4  
B) 1 2 4 3  
C) 2 1 4 3  
D) 1 2 3 4

36. Identify the correctly matched pair.

Tree  
Uses
1) Munberry - Tennis rocket
2) Willow - Railway sleeper
3) Coconut tree - Cricket Bat
4) Silk cotton tree - Silk

A) முன்பூறு  
B) வீலூறு  
C) கொழும்புநூறு  
D) சில்க்கொட்டாூறு

1) முன்பூறு - தேன்லிய ப்ளாண்
2) வீலூறு - ராயி பாய்க்கலூஷ்
3) கொழும்புநூறு - க்ரிக்கெட் ப்ளாண்
4) சில்க்கொட்டாூறு - ப்லாண்
37. Choose correct sequence of Nutrition
   1) Ingestion       2) Digestion       3) Absorption       4) Decomposition
   5) Assimilation
   A) 1 only         B) 2 and 3 only   C) 1 and 4 only   D) All the above

38. Which of the following is a leaf fiber?
   A) Aloe vera       B) Jute          C) Cotton         D) Plantain
   A) Aloe vera       B) Jute          C) Cotton         D) Plantain

39. Who invented Advanced Microscope
   A) Robert Hooks    B) Robert Brown   C) John Ray        D) Ernst Ruska
   A) Robert Hooks    B) Robert Brown   C) John Ray        D) Ernst Ruska

40. When the year of Astronomy was celebrated
   A) 2008            B) 1999          C) 2009            D) 2013
   A) 2008            B) 1999          C) 2009            D) 2013

41. Who discovered Bacteria?
   A) A.V Leewen Hock  B) Dr. Perkinjee  C) Robert Hooke    D) Schlieden
   A) A.V Leewen Hock  B) Dr. Perkinjee  C) Robert Hooke    D) Schlieden

42. Choose the beneficial activities of Bacteria
   1) Curdling of milk  2) Bio fertilizer  3) Decomposing of coasts  4) Bio digester
   A) 1, 2 only       B) 1, 2, 3 only  C) 2, 3 only       D) All
43. ‘Farmer’s enemy is?
   A) Snail       B) Earthworm       C) Honey bee       D) Locust
   A) பெருள்       B) எத்துணை       C) குரங்கி       D) பூர்வங்கி

44. Given are the characteristics of the monocot plant. Choose the wrong
   1) They have fibrous root system
   2) Its leaves have reticulate venation
   A) வெள்ளாதிகள் கருவிகள் பல்பொட்ட வெள்ளஸ்பை காண்டுள்ளன
   B) வெள்ளாதிகள் வெள்ளஸ்பை காண்டுள்ளன
   A) 1 only        B) 2 only        C) both 1&2        D) neither 1 nor 2

45. Identify the correctly matched
   1) Melting of Ice – Irreversible change
   2) Batter into Idly-Irreversible change
   3) Ripening of fruits- irreversible change
   A) 1 only        B) 3 only        C) 2 and 3 only    D) 1, 2 and 3

46. The dark inner Region of the stem of tree used in construction is called
   A) Sap wood       B) Teak wood       C) Dark wood       D) Heardwood
   A) கிளை களை       B) தெக்கை களை       C) பெரும்பொட்ட களை       D) பொட்டா களை

47. Which of the following is/are the disadvantage of disposing wastes using land filling
   1) It occupies land
   2) Produces pleasant smell
   3) When the wastes are burnt, it polluter the air around
   4) Toxic substances percolate and pollute the ground water.
1) অটল বিন্যাসের কারণগুলো
2) প্রথাগত মূল্যবোধ
3) উপাদানগুলির সীমার প্রাপ্তি, কারণগুলো
4) জ্ঞান উপাদানগুলির নিয়ন্ত্রণ কর্তব্য
A) all  B) 1, 2, 3  C) 2, 3, 4  D) 1, 3, 4

48. Which of the following are correct regarding spices
1) Only stems of plants are used as spices
2) Spices increase the rate of digestion
3) Kerala is a Spice Garden of India
A) all  B) 1, 2, 3  C) 2, 3  D) 1, 3

49. Identify the correct statement and rigidity
1) Heardwood given strength and rigidity to the plant
2) Heardwood is not infected by the fungus and termite.
A) 1 only  B) 2 only  C) both  D) none

50. Which plant has largest flower
A) Amorphophallus  B) Corypha
C) Helianthus  D) Refflesion Titanium
A) এ শ্রেণীর বৃহত্তম ফুল  B) কারিগর
C) তৃতীয় শ্রেণীর  D) একাদশ শ্রেণীর

51. Match the following
a) Burning of stick  1) Desirable change
b) Earth quake  2) Reversible change

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c) Making Ornaments  3) Exothermic change  
d) Raining  4) Non periodic change

1) Cinkamayur Kaatu Nerum
2) Nissi Nerum
3) Sadasa Marum
4) Kala Thayum Nerum

52. Which of the following is not a fundamental quality
A) Time  B) Length  C) Mass  D) Area

A) Kalvi  B) Kusum  C) Kiliy  D) Pushpavanam

53. Unit of mass in C.G.S system is
A) Kilogram  B) Gram  C) Pound  D) Foot

A) Hindustaniyam  B) Sippam  C) Pugalam  D) Aam

54. A Device which is used for measuring mass
A) Tape  B) Beam balance  C) Sundial  D) Scale

A) Aparu Thala  B) Kallu Karpagam  C) Thirupakaliram  D) Alagukalam

55. Match the following
a) Periodic Motion - Cocount falling
b) Random Motion - Riding a Bicycle
c) Multiple Motion - Pendulum in a clock
d) Linear Motion - Swimming of Fish
56. The Konkan coast receives the annual rainfall around
   A) 200 -300 cm   B) above 300cm   C) 100-200cm   D)below 50cm
   A) 200-300 cm
   B) 300 cm
   C) 100-200 cm
   D) 50 cm

57. Match the following
   Annual Rainful Place
   a) Below 50cm 1) North East part of Jammu Kashmir
   b) 50-100cm 2) Tripura
   c) 100-200cm 3) Costal Andhra
   d) 200-300cm 4) Bihar
   A) 1 2 4 3
   B) 2 1 4 3
   C) 2 1 3 4
   D) 1 2 3 4

58. Match the following
   Biome Flora

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a) Taiga 1) Oak
b) Deciduous forest 2) Ferns
c) Tunder 3) Spruce
d) Tropical rain forest 4) Lichens

59. The organ which can help in the exchange of gases in insects are
A) Skin  B) Lungs  C) Gills  D) Spiracles

60. The father of Taxonomy is
A) John Ray  B) Carolus Linnaeus  C) Aristotle  D) Hippocrates

61. How many cubes with each side 1 meter is equal to cube with the volume of 10 m³?
A) 20  B) 5  C) 100  D) 10
62. The first electric cell was developed by
   A) Alessandro Volta
   B) Luigi Galvani
   C) Charles Wood
   D) Ampere

63. Migratory birds found in the Biome of
   A) Deciduous forest
   B) Desert
   C) Savannah
   D) Tundra

64. Sanamavu Forest in which district?
   A) Dharmapuri
   B) Vellore
   C) Krishnagiri
   D) Salem

65. Choose the wrongly matched pair
   A) Earth day - February 02
   B) Natural Resources - October 05
   C) World Environment - June 05
   D) World Forest Day - March 21

66. Match the following
<table>
<thead>
<tr>
<th>Forest</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Temperate grassland</td>
<td>1) Canada, Russia</td>
</tr>
<tr>
<td>b) Deciduous</td>
<td>2) Eastern Asia</td>
</tr>
<tr>
<td>c) Taiga</td>
<td>3) Western Australia, Eastern Pakistan</td>
</tr>
</tbody>
</table>
d) Savanna 4) Africa  
ev) Tropical Rain forest 5) North and south America

67. Share of groundwater in fresh water is
A) 69%  B) 97%  C) 0.3%  D) 30.1%

68. The desalination plant at Minjur is located in the district of
A) Chennai  B) Kancheepuram  C) Thiruvallur  D) Cuddalore

69. The following equation is the example of which type of combustion?
A) Very quick combustion  B) Slow combustion  
C) Rapid combustion  D) Incomplete combustion
70. Which of the statements are not correct about gaseous fuels?
1) High Ignition Temperature
2) Complete combustion
3) High calorific Value
4) High Cost
What statements are not correct about gaseous fuels?
A) 1 & 2
B) 2 & 3
C) 1 & 4
D) 2, 3 & 4

71. Match the following
Parts of flame Nature
a) Zone on non combustion 1) Dark
b) Zone of partial combustion 2) Yellow
c) Zone of complete combustion 3) Blue

Match the following as per parts of flames
A) 2 1 3
B) 3 1 2
C) 3 2 1
D) 1 2 3

72. Arrange the following in ascending order based on the calorific value.
1) Water gas    2) Coke    3) Petrol    4) Natural Gas
73. Choose the correct statement
1) Liquids expand on heating and contract on cooling
2) Rubbing two things together produces heat due to friction.

A) 1, 3, 4, 2  B) 2, 3, 4, 1  C) 4, 2, 3, 1  D) 2, 1, 3, 4

74. To convert Celsius into Fahrenheit, formula is

\[ \frac{100}{80} = \frac{F - 32}{C} \]  
\[ \frac{C}{F - 32} = \frac{100}{180} \]  
\[ \frac{C}{180} = \frac{F}{100} \]  
\[ \frac{C}{100} = \frac{F - 32}{180} \]

A) \( \frac{100}{80} \)  B) \( \frac{100}{180} \)  C) \( \frac{C}{180} \)  D) \( \frac{C}{100} \)

75. When the object is placed very close to the concave mirror, the image formed is

A) Small, inverted virtual image  B) Enlarged, inverted virtual image  
C) Enlarged, erected virtual image  D) Small, erected virtual image

76. In India, Targa forests are found in

A) Himachal, Punjab, Kashmir  B) Bihar, Odisha, Madhya Pradesh
C) Nilgiri, Kazi hills, Naga hills  D) Assam, West Bengal, Andaman

77. Living components are categorized into?
78. Choose the correct Food Web
A) Insect, Grass hopper, Rabbit  B) Insect, Frog, Snake
C) Insect, Frog, Rat  D) Insect, Grass hopper, Rabbit.

79. In a vertical deep pit, the layer where all the space between soil particles and rock are filled with water. The top portion of that layer is called as
A) Water table  B) Aquifer  C) Stream  D) Surface water

80. Theethal Beach located in the state of
A) Maharashtra  B) Gujarat  C) Karnataka  D) Kerala

81. The amount of Propane and Butane in LPG is?
LPG — propana skrém, butana skrém  A) 85,15  B) 10,90  C) 15,85  D) 90,10

82. Absolute zero is
A) 273°C  B) 273k  C) -273k  D) -273°C

83. Which of the following regulates water level in the human body is
A) Blood  B) Lymph  C) Heart  D) Lungs

84. Acids reacts with metals and produce
A) Oxygen  B) Hydrogen  C) Nitrogen  D) Carbon
85. Which of the following statement is not correct about Respiration?
1) Takers placr in living cells
2) It involves breathing organs
3) Food is synthesized
4) Energy is released

A) 1 mark
B) 2 marks
C) 3 marks
D) 4 marks

86. Choose the sequence of respiratory passage
A) Trachea, Nasal cavity, Bronchi, Alveoli
B) Nasal cavity, Bronchi, Trachea, Alveoli
C) Bronchi, Trachea, Nasal cavity, Alveoli
D) Nasal cavity, Trachea, Bronchi, Alveoli

A) 1 mark
B) 2 marks
C) 3 marks
D) 4 marks

87. Which of the following is not a physical change?
A) Copper sulphate + Sulphuric acid = Crystalisation.
B) Camphor sublimation

A) 1 mark
B) 2 marks
C) 3 marks
D) 4 marks

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C) Burning of a candle.
D) Melting of Ice.

88. Choose the wrongly matched pair.
A) Tomato - Malic acid
B) Grapes - Tartaric acid
C) Milk - Lactic acid
D) Lemon - Citric acid

89. Match the following:
Commercial Name                      Base
a) Quick lime                       1) Calcium Hydroxide.
b) Caustic Soda                     2) Sodium Hydroxide.
c) Slaked Lime                      3) Calcium Oxide
d) Caustic potash                   4) Potassium Hydroxide
90. Which of the following base is used as antacid.
   A) Calcium oxide  
   B) Calcium Hydroxide  
   C) Magnesium Hydroxide  
   D) Ammonium oxide.

91. One metre is equal to how many feet?
   A) 2.38  
   B) 8.32  
   C) 3.28  
   D) 3.82

92. Choose the correct statement.
   1) An electric circuit is the closed path along which electric current flows from the negative terminal to the positive terminal of the battery.
   2) When current flows, the circuit said to be open, when current does not flow, the circuit is said to be closed.

93. The composition of water, Sugar, Minerals in honey respectively is
   A) 75,17,8  
   B) 8,75,17  
   C) 75,8,17  
   D) 17,75,8
94. Which of the following is not associated with silk producing places of Tamil Nadu?
   A) Siruvanthadu  B) Arani  C) Cheyyar  D) Thirubuvanam

95. Venus fly trap relates to
   A) Symbiosis  B) Insectivorous plant  C) Algae  D) Fungi

96. Absorbed food is utilized in cells called as
   A) Assimilation  B) Respiration  C) Oxidation  D) Cell respiration

97. Which of the following is not correct about the large intestine?
   1) Its length is 1.5 mts
   2) It is a place for temporary storage of undigested food
   3) Absorbing food and water takes place here.

98. The total number of milk teeth in human is
   A) 10  B) 32  C) 16  D) 20

99. Choose the correct statements
   1) Herbivoreous animals can digest cellulose.
   2) Grass is rich in cellulose which is a kind of protein.
1) एक एकड़ एक हेक्टेयर के बीच में से कितना समय लगता है?

A) 1 मिनट  B) 2 मिनट  C) 3 मिनट  D) 4 मिनट

2) दो किलोमीटर की दूरी चलने के लिए एक वृत्त की व्यास कितना होगी?

A) 4047 m², 2.47 acre  B) 4047m, 2.47 acre  C) 4047 cm, 2.47 acre  D) 4047 Km, 2.47 acre

One acre, and one hectare’s respectively are

A) 4047 m², 2.47 acre  B) 4047m, 2.47 acre  C) 4047 cm, 2.47 acre  D) 4047 Km, 2.47 acre
### 7th SCIENCE

<p>| | | | | | | | | | |</p>
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Why to choose Chennai IAS academy?

Chennai IAS has a Special focus for TNPSC Examination.

We Divides The TNPSC aspirants into Three stages.

<table>
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<th>S.NO</th>
<th>Stages</th>
<th>Level of Training</th>
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<td>Stage 1 (silver)</td>
<td>Only classes and class test will be conducted periodically.</td>
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<td>2.</td>
<td>Stage 2 (golden)</td>
<td>After completing stage 1 the students will enter to the stage 2. In stage 2 the students will be allotted in groups. focus for each and every subjects and individual subjects tests will be conducted to the students.</td>
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<td>3.</td>
<td>Stage 3 (platinum)</td>
<td>Full test series will be conducted in stage 3.</td>
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After crossing the Three stages in TNPSC students will feel confident to crack the exams.

How we Treat This Course

- We covers the basic syllabus in samacheer kalvi books
- Then we coach the students with major concepts
- Weekly test for subjects which we gone through every week
- We will make sure that every students striving towards success by periodically evaluating their performance in tests
- Materials will provide in the institute

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www.Padasalai.Net

http://www.trbtnpsc.com/2013/09/tnpsc-group-2-group-4-vao-exam-study.html

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