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CHENNAI IAS ACADEMY
Vellore

TNPSC
GROUP - I,II,IIA,IV & VAO
Prelims & Mains

SAMACHEER KALVI QUESTIONS
8th science with key answers

# 5, old by-Pass Road, National Theatre
(Near- opp - Benzz Park ) Vellore- 4

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http://www.trbtpsc.com/2013/09/tnpsc-group-2-group-4-vao-exam-study.html
1. Choose the correctly matched:
   1) Red Algae - Gelidium
   2) Brown Algae - Gracillaria
   3) Red Algae - Gracillaria
   4) Brown Algae - Gelidium

2. Match the following:
   Colour of Algae           Algae
   a) Phycocyanin            1) Oxillatoria
   b) Green                  2) Chlamydomonas
   c) Fucoxantain            3) Sargassum
   d) Phyco erytarin         4) Polysiphoria

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

3. In a plant root, which part helps in conduction and storage?
   A) Rhyzodermis   B) Xylem    C) Phloem    D) Cortex

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4. Choose the correct statement:
1) Many xylem bundles are found in monocot.
2) Pith is absent in dicot.

5. Which of the following statement is not correct about Gymnosperms?
A) It produce male and female cones.  B) It’s leaves vary in nature.
C) It has only one sporophytic life cycle  D) It undergoes secondary thickening.

6. Choose the correct statement.
1) Bacterial cell is a prokaryotic cell.  2) Bacterial cell do not have cell wall

7. African sleeping sickness is caused by
A) Entameoba Histalytica  B) P.Vivax
C) Trypanosoma Gambience  D) P.falciporum

A) 1  B) 2  C) 3  D) 4
8. Match the following:

<table>
<thead>
<tr>
<th>Cells</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Flame cell</td>
<td>1) Cylindrical</td>
</tr>
<tr>
<td>b) Ovary cell</td>
<td>2) Multi faceted</td>
</tr>
<tr>
<td>c) Disc Epithelial</td>
<td>3) Egg shaped</td>
</tr>
<tr>
<td>d) Columnarepithelium</td>
<td>4) Pipe shaped</td>
</tr>
</tbody>
</table>

9. Which of the following is called as ‘power House’ of the cell?
A) Ribosome  B) Lysosome  C) Mitochondria  D) Centriole

10. Which of the following help in retinal pigment formation in Retinal cells?
A) Golgi Apparatus  B) Endoplasmic reticulum  C) Mitochondria  D) Ribosome.

11. Which of the cell organ was first described by Henneguy and Leuhosk in 1897?
A) Nucleus  B) centrioles  C) Lysosome  D) Golgi Apparatus.

12. Venkatraman Ramakrishnan got Nobel Prize in.
   a) Economics  b) Chemistry  c) Physiology  d) Physics
   A) 2009  B) 2010  C) 2011  D) 2012

13. Choose the correct statement.
   1) Striated muscles are attached to the skeleton.
   2) Striated muscles are cylindrical in structure.
   3) Striated muscles are voluntary muscle.

   1) விளைவு குருவினை உடைது.
   2) விளைவு குருவினை வழங்கி பயன்படுத்துவது.
   3) விளைவு குருவினை வழங்கவேண்டும்.
   A) 1 2 3  B) 2 1 3  C) 1 3 2  D) 1,2,3

14. The Projections in between Renal pyramids is.
   A) Calyces  B) Pelvis  C) Cartex  D) Medulla
   உள்ள உச்சுக்கு பிரித்துக்குத் திறன்பற்று பெரும்.
   A) காதையம்  B) பலினியம்  C) கர்டிக்கம்  D) மைத்தோணமா

15. In India Social Forestry project was started in.
   இந்தியாவில் சுகாதார குருவினை உருவாக்கல் ஆண்டு.
   A) 1975  B) 1977  C) 1976  D) 1978

16. Arrange the flora on the basis of the distribution in India in ascending order.
   1) Fungi  2) Lichena  3) Pteridophytes  4) Bryophytes
   இந்தியாவில் அடல் நாடு மாசாக்கா அந்த விலங்குகளின் வருத்தற்கு.
   1) ப்ரான்கான்  2) பாலிக்கம்  3) ப்ரீதிக்கான்  4) ப்ரையோப்பான்
   A) 1,2,4,3  B) 1,4,3,2  C) 3,4,1,2  D) 3,2,4,1

17. Choose the animal that is associated with Dudwa National park is.
   A) Lion  B) Elephant  C) Tiger  D) Rhinoceros.
18. What is the cause for the birds to lay eggs with unnaturally thin shells?
A) Pesticides   B) Global warming  C) CFC    D) Oil Spills

19. When the sunlight decomposed silver chloride into silver and chlorine, their color respectively is.
A) White, Yellow green   B) grey, yellow green  
C) grey white, yellow    D) yellow white, green.

20. Number of metallic elements are
A) 92   B) 82   C) 72   D) 62

21. Match the following:
Element  Use
a) Rhenium  1) Pollution control
b) Palladium  2) Rocketengine
c) Cadmium  3) Nuclear submarine
d) Hafnium  4) Paint.

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| a) கரியச்சல் | 1) மளை கோள்பால். |
| b) பல்லவபணம் | 2) பொருளக்கிழக்கு கோள்பால். |
| c) கார்பன்னல் | 3) தொலை விளையாட்டு கோள்பால். |
| d) மோசெயன்மை | 4) பல்லவபணம் |

| a b c d |
| 1 2 3 4 |
| 1 2 4 3 |
| 2 1 3 4 |
| 2 1 4 3 |

22. Which element is used for making Telescope Lenses?
   A) Europium   B) Terbium   C) Californium   D) Lanthanum

23. Choose the correct statement.
   1) Iron Sulphide contains Iron and sulphur in the ratio of 4:7
   2) Hydrofluoric acid is capable of dissolving glass

   1) கார்பன்று கார்பன்று கார்பன்று கார்பன்று 4:7 மிதிக்கம் எண்ணடையாது.
   2) வேறு பல்வேறு பல்வேறு பல்வேறு பல்வேறு கார்பன்று வேறு கார்பன்று 4:7 மிதிக்கம் எண்ணடையாது.

24. The valency of hydrogen atom is.
   A) One   B) Two   C) Three   D) Four

25. Choose the wrongly matched pair.
<table>
<thead>
<tr>
<th>Law</th>
<th>Scientist.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Law of combining volume</td>
<td>- Democritus</td>
</tr>
<tr>
<td>C) Law of Definite Proportions</td>
<td>- Proust.</td>
</tr>
</tbody>
</table>
26. The Scientist who proved that the electricity is made of particles called as electrical atoms?
   A) J.J.Thompson  B) Michael Faraday  C) Dalton  D) A.Flemming

27. Choose the correct statement.
   1) Coal have higher sulphur content if it was formed in swampy areas covered by sea water.
   2) India ranks first among the coal producing countries in the world.

28. India’s ‘Makkum’ is related to
   A) Coal  B) Steel  C) Petrol  D) Bauxite

29. Choose the correct statement:
   1) The constant current between the conductors would produce a force of $2 \times 10^{-7}$ Newton per unit length of conductors is one Ampere.
   2) Kelvin is the fractions of $1/273.16$ of the thermodynamic temperature of the triple point of water.
2) நீண்டு வாழ்வு நிற்பிய புனிதப்பிள்ளையின் செல்வம் தம்சைகளின் வெளியே இல்லம் 1/273.16 பைன் பக்தியேற்றம்.
A) 1 பைன்  B) 2 பைன்  C) கூட்டுத்  D) கூட்டுத் தேவை

30. Choose the correctly matched pair.
A) Sir Issac Newton - France
B) Blaise Pascal - England
C) Ada yoata - Isrel
D) Thomas steltz - Germany.

31. Name the type of joint in which the convex surface of one bone fits into the concave surface of the other bone.
A) Hinge joint  B) Gliding joint  C) Pivot joint  D) Ball and Jocket joint

32. Mycoses disease in human is caused by.
A) Fungi  B) Algae  C) Ferns  D) Protozoa

33. Maximum number of species in India is
A) Mammals  B) Birds  C) Reptiles  D) Insects

34. The name of the metal used in Laser Surgery is
A) Holmium  B) Indium  C) Tallium  D) Bhorium
35. Choose the incorrect statement about the properties of anode rays.
1) It consists of material particles
2) It travels in straight line
3) It is deflected by an electric field.

36. When the project Tiger was launched
A) 1975  B) 1973  C) 1972  D) 1970

37. Which of the following is not correct about Amoeba?
1) Amoeba takes liquid foods only.
2) In Amoeba, the digested food reaches the entire body by diffusion.
3) In Amoeba, the undigested food is excreted through its body surfaces.

38. Consider the following statements.
1) These are chisel shaped teeth in the front of the mouth.
2) They are eight in number. Four are present in each jaw.
3) These are used for biting the food.
The above statements is about?
A) Premolars  B) Incisors  C) Canine  D) Molars

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39. Which of the following is not a function of the skin?
A) Protects the inner parts of the body.
B) Generates heat required for maintaining our body temperature.
C) Works as an excretory organ.
D) Acts as a sense organ.

40. Choose the correct statement:
1) The hydrophytes stem is thick, short, and spongy with air spaces to float in water.
2) The process of taking out threads from the cocoon is called Reeling.

41. Which of the following is not an application of a concave mirror?
A) Solar cooker
B) Shaving mirror
C) Dentists
D) Rear view mirror in automobiles
42. An electric cell is a device.
   A) Which converts electric energy into chemical energy.
   B) Which converts tidal energy into electric energy.
   C) Which converts chemical energy into electric energy.
   D) Which converts electric energy into tidal energy.

43. Displacement for the shortest distance between two points is.
   A) Speed
   B) Velocity
   C) Displacement
   D) None of the above

44. Choose the correct statements.
   1) Acids contain replaceable Hydrogen Atoms.
   2) Burning of a candle is an example of chemical change.

45. A Light year is ______________
    लाइट यर की दूरी ____________ है.
    A) $1.496 \times 10^{12}$ K.m
    B) $9.46 \times 10^{12}$ K.m
    C) $9.46 \times 10^{10}$ K.m
    D) $1.496 \times 10^{10}$ K.m

46. Match the following:
    Shape               Formula
    a) Triangle        1) $1^2$
    b) Circle          2) $1b$
    c) Square          3) $1/2bh$
    d) Rectangle       4) $\pi r^2$

http://www.trbtnpsc.com/2013/09/tnpsc-group-2-group-4-vao-exam-study.html
47. The base that found in the window cleaner is.
A) Calcium Hydroxide    B) Magnesium Hydroxide
C) Ammonium Hydroxide    D) Potassium Hydroxide

48. Choose the following correct facts.
1) Hydrogen is the common element present in all acids. All compounds containing Hydrogen are not acids.
2) Acids are good conductors of electricity.
3) DNA in cells in the human body controls the features of body.
4) Acids which are soluble in water are called alkalis.

49. Choose the wrongly matched pair:
Fuel | Calorific value (kcal/Kg)  
---|---
A) Petrol | 11,500  
B) Methane | 13,340  
C) Kerosene | 10,300  
D) Coal | 9000

50. Choose the correct statement:
1) The total renewable water resources of India is estimated at 1,897 Sq/km  
2) India is the largest user of ground water in the world.

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

51. Metastasis is relates to
A) AIDS  
B) Cancer  
C) Headache  
D) STD Diseases

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

52. Choose the correct statement.
1) Ephedra is a gymnosperms  
2) Human bones are not solid.

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

53. Which one of the following is not present in yeast cells?
A) Chlorophyll  
B) Vacuole  
C) Glycogen  
D) Nucleus
54. Pathogen of the disease Laptospirosis is
A) Virus  B) Bacteria  C) Fungi  D) Protozoan

55. Blood is which type of tissue.
A) Epitelial Tissue  B) Vascular tissue  C) Connective Tissue  D) Nerve Tissue

56. Choose the wrongly matched pair.
Animal: Sanctuary
A) Lion tailed monkey - Mudanthurai kalakkad
B) One horned Rhinoceros - kazinranga.
C) Asiatic lion - Bandipur
D) Grey heron - Vedanthangal

57. Match the following:
Act                                      Year
a) Water (Prevention and control       - 1) 1981
   Of pollution ) Act
b) Air( prevention and Control of     - 2) 1986
   Pollution)Act
c) Environment (Protection) Act - 3) 1974

58. Aluminium present in earth’s crust is
A) 8.1%  B) 2.1%  C) 2.5%  D) 27.7%

59. Choose the correct statement.
1) The loudness of the sound depends on its Amplitude.
2) An optical fiber is a device based on the principle of Total internal Reflection.
A) 1 kl;Lk;  B) 2 kl;Lk;  C) nuz;Lk;  D) njpy; VJkpy;iy

60. Consider the following regarding Total Internal Reflection and choose the correct.
1) The light must travel from a denser medium to a rarer medium.
2) The angle of incidence must be lesser than the critical angle
A) 1 kl;Lk;  B) 2 kl;Lk;  C) nuz;Lk;  D) njpy; VJkpy;iy

61. Which of the following is not a non contact forces?
62. Match the following:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Electric Current</td>
<td>1) Candela</td>
</tr>
<tr>
<td>b) Luminous Intensity</td>
<td>2) Mole</td>
</tr>
<tr>
<td>c) Amount of Subsstance</td>
<td>3) Ampere</td>
</tr>
<tr>
<td>d) Temperature</td>
<td>4) Kelvin</td>
</tr>
</tbody>
</table>

63. In fractional distillation Crude oil diesel is obtained in the temperature of.

A) 160 – 250 °C  B) 250 – 300 °C  C) 300 – 350 °C  D) 350 – 400 °C

64. 1000kg of coal contains the amount of coke, ammonia and coal gas respectively is

1000 က. က. ပွဲကြွန်စိုက် အမြဲအီး အီးကြွန်စိုက် အမြဲအီး အီးကြွန်စိုက်အမြဲအီး

1) 700 kg  2) 100 litres  3) 400 m³
A) 3,1,2  B) 1,2,3  C) 2,1,3  D) 1,3,2

65. Consider the following facts.
1) The properties of anode rays depend upon the nature of gas present in the discharge tube.
2) Proton is produced when one electron is removed from one hydrogen atom.
3) The size of atom is 10^{-10} m

1) The properties of anode rays depend upon the nature of gas present in the discharge tube.
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1. Match the following Common Name Chemical Name.
   a) Baking Soda 1) Calcium oxide.
   b) Bleaching powder 2) Sodium bicarbonate
   c) Washing soda 3) Calcium carbonate
   d) Quick lime 4) Calcium oxychloride
   e) Lime Stone 5) Sodium Carbonate

   a) 1) 2) 3) 4) 5) b) c) d) e) A) 2 4 5 3 1 B) 1 2 4 5 3 C) 4 2 5 1 3 D) 2 4 1 5 3
67. Match the following:

<table>
<thead>
<tr>
<th>Name of the element</th>
<th>Latin name</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Lead</td>
<td>1) Stannum</td>
</tr>
<tr>
<td>b) Antimony</td>
<td>2) Plumbum</td>
</tr>
<tr>
<td>c) Tin</td>
<td>3) Wolfram</td>
</tr>
<tr>
<td>d) Tungsten</td>
<td>4) Stibium</td>
</tr>
</tbody>
</table>

68. Which one of the following is not a gas?

A) Neon   
B) Gallium 
C) Xenon   
D) Argon.

69. Which is not correct about ‘Biopal’?

1) It is produced by the micro organism known as Alcaligena
2) It is an Artificial plastic.
3) It is a Homopolymer Plastic.
4) It is fully biodegradable

"பிப்பலால்" பாசியம் ஆதாரகக்கியதால் தவறாயா?

1) ஆக்கரங்கம் கல்லா காண்களா ராயவும் பெறுவது காண்டால்
2) செம்மை விளையிடும்
3) மறு வல்ல விளையிடும்.
4) துண்டம் மறுபிளவும்.
70. Consider the following statements.
1) Eye irritation  2) Lung Cancer  3) Asthma
The pollutant that responsible for the above is.
A) Carbon monoxide  B) Carbon dioxide  
C) Nitrogen oxide  D) Sulphur dioxide

71. For the first time, who propounded that the animals do shift their habitat in response to variations in seasons.
A) Salim Ali  B) Aristotle  C) Mohamed Ali  D) Johnson

72. In India, when was cheetah was declared as an extinct animal?
A) 1972  B) 1965  C) 1950  D) 1985

73. Choose the correctly matched statement.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hormone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Reduces blood glucose</td>
<td>Insulin</td>
</tr>
<tr>
<td>2) Increases blood glucose</td>
<td>Insulin.</td>
</tr>
<tr>
<td>3) Reduces blood glucose</td>
<td>Glucagon.</td>
</tr>
<tr>
<td>4) Increases blood glucose</td>
<td>Glucagon.</td>
</tr>
</tbody>
</table>
74. Choose the incorrect about Human Eye?
A) Retina is present, Retina is a sensitive part.
B) The fovea are densely packed with cone cells.
C) The Rod cells are sensitive to different colour of lights.
D) The lens is elastic and biconvex in shape.

75. Choose the cell organizer?
A) Nucleus
B) Chromatin Reticulum
C) Nucleolus
D) Chromosome

76. Choose the correct statement.
1) Based on functions, bacteria can be classified into four types.
2) 1 Micron is 1/1000 millimeter.

77. Choose the correctly matched.
Gland - Hormone.
1) Ovaries - Testosterone.
2) Testes - Oestrogen.
3) Ovaries - Progesterone.
4) Testes - Testosterone.

78. Which of the following regulates blood pressure during stress?
A) Thyroxine  B) Adrenalin  C) Insulin  D) None of these

79. When a dormant seed sprouts, its starch is converted into.
A) Simple sugar  B) Compound sugar  C) Protein  D) Carbohydrate

80. Number of autosomes in Human body is
A) 23  B) 22  C) 44  D) 46

81. Choose the correct statement:
1) The period of oscillation is the reciprocal to the frequency.
2) Bats use ultrasonic waves for their flight.

82. Number of tiny interlocked bones in middle ear of human body is
83. The least distance for a distinct vision is
A) Two   B) Four   C) Five   D) Three

84. The direction of light deviation in a medium depends on.
A) Density of the media   B) Refraction number of media.
C) Nature of the media   D) Weight of the media.

85. On the basis of Laws of Reflection, the angle of incidence is.
A) Lesser than the angle of reflection   B) Greater than the angle of reflection.
C) Equal to the angle of reflection   D) None of the above.

86. What is the colour of potassium permanganate in cold water when it is heated slowly?
A) Red   B) Blue   C) Green   D) Violet

87. The transfer of heat due to the actual movement of particles called as.
A) Conduction   B) Convention   C) Radiation   D) None of these

88. Consider the following facts.
1) Rain clouds are electrically charged
2) Upper portion of the clouds carries negative charges.

3) The enormous amount of heat produced during lightning causes the air mass to contract.

4) Lightning carries lot of energy and heat.

Find the wrong statements:

1) Upper portion of the clouds carries negative charges.
2) The enormous amount of heat produced during lightning causes the air mass to contract.
3) Lightning carries lot of energy and heat.
4) Find the wrong statements:

89. The Charge acquired by the glass rod when it is rubbed with silk is _____ . The charge acquired by the plastic rod when it is rubbed with wool is _______.
A) Positive, positive  B) Negative, Negative  C) Positive, Negative  D) Negative, positive

90. Choose the correct statement:

1) An atom is said to be electrically charged when the number of protons and number of electrons is not equal.
2) Charged objects can have either positive charge (or) negative charge.

A) 1 kl;Lk;  B) 2 kl;Lk;  C) 1,3 kl;Lk;  D) 2,3 kl;Lk;
91. During silver electroplating process, the cathode, anode and electrolytes respectively
A) Iron, Zinc, Zinc Sulphate  B) Iron, Silver, Silver Nitrate.
C) Silver, Silver, Silver Nitrate  D) Silver, Gold, Gold Chloride.

92. When current passes through the copper sulphate solution, positive ion and negative ion respectively is.
A) Copper, Copper  B) Sulphate, copper
C) Sulphate, Sulphate  D) Copper, Sulphate

93. Choose the correct statement:
1) In a serial circuit same amount of electric current flows through all the bulbs.
2) In a serial circuit the current can flow only in one direction.

94. The Pressure applied to an enclosed liquid gets transmitted equally to every part of the liquid was propounded by.
A) Torricelli  B) Pascal  C) Ottavaun  D) Henry
95. Choose the correct statement:
1) Liquid pressure depends on density of a liquid.
2) Liquid exerts equal pressure at the same depth.
A) 1 Only  B) 2 Only  C) Both  D) None of the above

96. Atmospheric pressure at sea level is (approximately).
A) \(10^{-5}\) N/m\(^2\)  B) \(10^5\) N/m\(^2\)  C) \(10^5\) N/m\(^2\)  D) \(10^{-5}\) N/m\(^2\)

97. If a liquid exerts the force of 100N over an area of 2m\(^2\), the pressure is?(N/m\(^2\))
A) 200  B) 100  C) 50  D) 10

98. Erymothecium ashbyi used in the synthesis of Vitamin B (Riboflavin), is a
A) Algae  B) Fungi  C) Protozoa  D) Gymnosperms
A) Algae  B) Fungi  C) Protozoa  D) Gymnosperms

99. Choose the correct statement.
1) Class hepaticae having undifferentiated Thallus.
2) In class Anthocerotae protonemal stage absent.
A) 1 Only  B) 2 Only  C) Both  D) None of the above

100. Which one of the following is not matched with others?
A) Psilotum  B) Lycopodium  C) Pinus  D) Equisetum.
A) தமிழிந்தும்  B) தமிழிற்கும்  C) தமிழ்  D) தமிழில்
# 8th Science

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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.

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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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“ALL THE BEST“