TNPSC Original Question Paper: 1. Density of matter is defined as A. mass / volume B. mass × volume C. volume / mass D. none of these 2. The resultant upthrust on a body partly immersed in liquid acts through A. the centre of gravity B. the metacentre C. the centre of pressure D. none of these 3. A transverse wave travels along z-axis. The particles of the medium travels along A. z-axis C. y-axis B. x-axis D. in x-y plane 4. Joule-Thomson cooling is A. temperature dependent B. temperature independent C. dependent on the molecular weight of the gas D. dependent on the total mass of the gas 5. The principle of action of points is used in A. capacitors B. inductors C. resistors D. lightning arrestors 6. A jet engine works under the principle of A. mass B. energy C. linear momentum D. angular momentum 7. To find the temperature of the sun, the following law is used: A. Charles' law B. Stefan's fourth power law of radiation C. Boyle's law D. Kirchhoff's law 8. Calotropis is an example of the following phyllotaxy: A. opposite and decussate

B. spiralC. whorledD. alternate

A. find diseases
B. find the age of relics

D. none of these

9. Radio carbon dating is used to

C. find the carbon content in the atmosphere

- 10. Frequency modulation is more advantageous than amplitude modulation because
 A. there will be no distortion
 B. distortion will be maximum
 C. no internal noises produced
 D. internal noises can be filtered
 11. X-rays travel with the velocity of
 A. light
 B. sound
 C. positive rays
 - D. alpha rays
 - 12. A loudspeaker converts
 - A. electrical energy into sound energy
 - B. sound energy into electrical energy
 - C. small sound into a large sound
 - D. none of the above
 - 13. The transverse wave nature of light was proved by
 - A. interference C. polarisation
 - B. diffraction D. refraction
 - 14. Electric iron takes a long time to cool because of
 - A. greater emissivity
 - B. lesser emissivity
 - C. less absorptive power
 - D. more absorptive power
 - 15. Helium is preferred to hydrogen in airships because it
 - A. has greater lifting power
 - B. is less dense
 - C. cheaper
 - D. does not form explosive mixture with air
 - 16. Excessive consumption of alcohol damages the
 - A. liver C. heart
 - B. kidneys D. lungs
 - 17. Which of the following has the smell of garlic?
 - A. White phosphorus
 - B. Red phosphorus
 - C. Phosphorus chloride
 - D. Phosphine
 - 18. A common nitrogenous fertilizer is
 - A. urea
 - B. superphosphate
 - C. triple phosphate
 - D. potassium chloride
 - 27. The acid which etches glass is

A. nitric acid B. sulphuric acid C. hydrofluoric acid D. hypochlorous acid 28. Which of the following diseases is likely to spread in the entire community if a leaky septic tank contaminates the water supply? A. Cholera C. Tuberculosis B. Cancer D. Leprosy 29. Yeast help in the production of A. oxygen C. alcohol B. glucose D. salts 30. Many pulses are obtained from plants of the family A. Euphorbiaceae B. Fabaceae C. Asteraceae D. Musaceae 31. Which of the following protozoans possesses definite shape? A. Amoeba B. Paramecium C. Both of these D. None of these 32. Which of the following is used for culture medium of bacterial growth? A. Iodine C. Sugar B. Agar-Agar D. Alcohol 33. Malaria is caused by A. virus C. protozoa B. bacteria D. fungi

34. One of the following is the simplest land plant:

19. Which element is a metalloid in the following?

20. Night blindness is caused due to the deficiency of

21. Mercury is used in thermometers because it

A. Bryophytes C. Algae B. Lichens D. Fungi

A. Copper C. Aluminium B. Arsenic D. Gold

A. Vitamin A C. Vitamin K B. Vitamin B D. Vitamin E

C. expands uniformly

A. is heavy B. is a liquid

D. is a metal

A. common salt C. rust B. soft coke D. chalk 23. Fresh foods and fruits contain more of A. proteins C. vitamins B. fats D. carbohydrates 24. Electric bulbs are filled with the gas A. oxygen B. carbon dioxide C. argon D. nitrogen 25. The sides of a match box contains A. red phosphorus B. white phosphorus C. phosphorus pentoxide D. none of these 26. Penicillin was discovered by A. Edward Jenner B. J.C. Bose C. Alexander Fleming D. William Harvey 35. Bacteria generally multiply by A. binary fission B. multiple fission C. longitudinal fission D. all of these 36. Agar-agar is obtained from A. gelidium C. ectocarpus B. laminaria D. fucus 37. Which one of the following animals is cold-blooded? A. Pigeon C. Dog B. Fish D. Man 38. Nitrogen fixation is done by A. blue-green algae B. green algae C. brown algae D. red algae 39. Which type of cancer is the most common? A. Carcinoma C. Lymphoma

B. Sarcoma D. Leukaemia

40. Which bacteria produce vinegar in sugar solutions?

22. Sodium chloride is the scientific name of

B. Acetobacter C. Acetobacter aceti D. Rhizobium 41. Baker's yeast is A. Zygosaccharomyces octosporus B. Saccharomyces cerevisae C. Laminaria D. S. Ludwigii 42. The tallest tree occurs in A. Pteridophytes B. Monocots C. Gymnosperms D. Dicots 43. Which of the following has been identified as the main source of environmental pollution in the city of Delhi? A. Automobiles B. Cement Industry C. Fertilizer Industry D. Thermal Power Station 44. pH of water is A. 4 C. 12 B. 7 D. 0 45. The deficiency of iodine causes A. diabetes C. rickets B. scurvy D. goitre 46. The poisonous substance that is present in tobacco is A. Morphine C. Nicotine B. Aspirin D. Reserpine 47. Which one of the following is excreted in Urine? A. Sugar C. Protein B. Creatin D. Fat 48. Who are more likely to get tapeworm? A. Fish eaters C. Meat eaters B. Pork eaters D. Beef eaters 49. In which animal was the AIDS virus first detected? A. Rat C. Horse B. Rabbit D. Monkey

50. Hargovind Khurana is credited for the discovery of

A. synthesis of protein B. synthesis of gene

A. Escherichia

- C. synthesis of nitrogenous bases D. none of these