

## ***TNPSC Original Question Paper:***

**1. Density of matter is defined as**

- A. mass / volume
- B. mass  $\bar{\Delta}$ – 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's 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. spiral
- C. whorled
- D. alternate

**9. Radio carbon dating is used to**

- A. find diseases
- B. find the age of relics
- C. find the carbon content in the atmosphere
- D. none of these

**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:**

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

**19. Which element is a metalloid in the following?**

A. Copper C. Aluminium

B. Arsenic D. Gold

**20. Night blindness is caused due to the deficiency of**

A. Vitamin A C. Vitamin K

B. Vitamin B D. Vitamin E

**21. Mercury is used in thermometers because it**

A. is heavy

B. is a liquid

C. expands uniformly

D. is a metal

**22. Sodium chloride is the scientific name of**

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?**

A. Escherichia

B. Acetobacter

C. Acetobacter aceti

D. Rhizobium

**41. Baker's yeast is**

A. Zygosaccharomyces

octosporus

B. Saccharomyces cerevisiae

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

C. synthesis of nitrogenous bases

D. none of these