# **TNPSC Original Question Paper:**

# 1. Density of matter is defined as A. mass / volume B. mass Ã- 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

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' Iaw
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

A. capacitors

B. inductors

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

# 13. The transverse wave nature of light was proved by

A. interference C. polarisation

C. small sound into a large sound

D. none of the above

B. diffraction D. refraction

energy

# 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

# 18. A common nitrogenous fertilizer is

A. urea

D. Phosphine

B. superphosphate

C. triple phosphate
D. potassium chloride
D. potassiam emoriae
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. lodine 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
D. KIIZODIGITI
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
- C. synthesis of nitrogenous bases
- D. none of these