

TNPSC Solved Question Papers Part 1
Group 1, 2 ,3 ,4 Questions (This paper is constructed having
questions for all group)

1. Density of matter is defined as

- A. mass / volume
- B. mass \times 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. 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
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

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

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

51. Which one of the following types of sex chromosomes represents a male human being?

A. YY C. XY

B. XX D. XO

52. Triple Antigen is administered

to prevent the attack of

- A. diphtheria, tetanus and tuberculosis
- B. tetanus, tuberculosis and malaria
- C. diphtheria, tetanus and whooping cough
- D. diphtheria, tetanus and malaria

53. Match List I with List II correctly and select your answer using the codes given below:

List I

- A. Mitochondria
- B. Chloroplast
- C. Stomata
- D. Cell wall

List II

- 1. Photosynthesis
- 2. Transpiration
- 3. Respiration
- 4. Osmosis

Codes:

a b c d

- A. 1 3 4 2
- B. 3 1 4 2
- C. 1 3 2 4
- D. 3 1 2 4

54. Nucleotide is made up of

- I. Phosphoric acid
- II. Deoxyribose sugar
- III. Nitrogenous bases

Which one is correct?

- A. I, II and III C. II and III
- B. I and II D. III alone

55. A bacteriophage is

- A. a bacterium living on dead tissue
- B. a virus that attacks bacteria and destroys them
- C. a bacterium that fights viruses
- D. a blue-green algae

56. Ribosomes in a cell play a significant role in
- A. Lipid synthesis
 - B. Photosynthesis
 - C. Protein synthesis
 - D. Secretion
57. The first sermon of Gautam Buddha was delivered at
- A. Sarnath C. Gaya
 - B. Lumbini D. Kapilavastu
58. Who wrote Arthashastra?
- A. Kautilya
 - B. Gandhiji
 - C. Nehruji
 - D. None of the above
59. Who was the first Muslim invader of India?
- A. Ghazni Mahmud
 - B. Ghori Mahmud
 - C. Aibak
 - D. Mohamed Bin Kasim
60. "Jazia Tax" was reimposed during the reign of
- A. Akbar C. Jahangir
 - B. Aurangzeb D. Humayun
65. Who is the first Indian Woman Police Service Officer?
- A. Kiran Bedi C. Sasikala
 - B. Chandrika D. Jaya
66. Who wrote the novel 'Ponniyin Selvan'?
- A. Kalki
 - B. Kannadasan
 - C. Bharathiyar
 - D. Bharathidasan
67. Darwin wrote the book
- A. Philosophic Zoologique
 - B. Systema Naturae
 - C. Origin of Species

D. Natural Selection in Evolution.

68. The Indian Ruler who fought with Alexander the Great was

A. Porus

B. Asoka

C. Harsha

D. Chandragupta II

69. The longest river in the Southern part of India is

A. Kaveri

B. Vaigai

C. Godavari

D. Mullai

70. Who is called as Nightingale of India?

A. Sarojini Naidu

B. Subbu Lakshmi Reddy

C. Annie Beasant

D. Jhansi Rani

71. Which is the largest epic in the World?

A. Mahabharata

B. Silappadhikaram

C. Manimekalai

D. Natrinai

72. Which city formulates the Doctrine of Panchsheel?

A. Delhi C. London

B. Bandung D. Washington

73. Who was the father of Indian Archaeology?

A. Major General Alexander

B. John Marshall

C. Smith

D. Herbert

74. By whose advice Sarfoji II built the Saraswati Mahal Library?

- A. Schwartz C. Caldwell
B. Ziegnbalg D. Plutchau
75. Which one of the following cities is famous for the manufacture of shoes?
A. Basti C. Indore
B. Mysore D. Batanagar
76. Which one of the following states does not have a common boundary with Bangladesh?
A. Meghalaya C. Nagaland
B. Tripura D. Mizoram
77. Which one of the following cities is famous for the manufacture of locks?
A. Hyderabad C. Nellore
B. Aligarh D. Nagpur
78. India's naval base is located at
A. Mumbai
B. Visakhapatnam
C. Karwar
D. Tuticorin
79. According to 1991 census, in which state do women outnumber men?
A. Andhra Pradesh
B. Bihar
C. Kerala
D. Tamil Nadu
80. Telugu Ganga Project is associated with the river
A. Godavari C. Cauvery
B. Krishna D. Mahanadi
81. Which of the following takes place due to deforestation?
A. Ground water depletion
B. Soil erosion
C. Floods
D. All of these
82. The basin area of Narmada lies

in which of the following states?

- A. Maharashtra and Madhya Pradesh
- B. Maharashtra and Rajasthan
- C. Maharashtra and Bihar
- D. Maharashtra and Uttar Pradesh

83. Which one of the following is a Kharif crop?

- A. Wheat C. Pulses
- B. Paddy D. Mustard

84. Match List I with List II correctly and select your answer using the codes given below:

List I List II

- A. Titagarh 1. Fertilizer
- B. Napanagar 2. Paper
- C. Sindri 3. Cement
- D. Kutni 4. Newsprint

Codes:

a b c d

- A. 4 3 2 1
- B. 2 1 4 3
- C. 3 2 4 1
- D. 2 4 1 3

85. Which one of the following is not correctly matched?

- A. Rourkela Steel Plant - Orissa
 - B. Bhilai Steel Plant - Maharashtra
 - C. Durgapur Steel Plant - West Bengal
 - D. Bokaro Steel Plant - Bihar
- B. Uttar Pradesh
 - C. Himachal Pradesh
 - D. Andhra Pradesh

86. Which one of the following is not correctly matched?

- A. Darjeeling - West Bengal
- B. Mount Abu - Rajasthan

C. Kodaikanal - Tamil Nadu

D. Simla - Uttar Pradesh

87. Which state gets maximum rainfall from North-east monsoon?

A. Karnataka C. Gujarat

B. Tamil Nadu D. Maharashtra

88. Find the oddly matched pair:

A. Bose Research Institute - Kolkata

B. Raman Research Institute - Chennai

C. National Museum - New Delhi

D. Survey of India - Dehra Dun

89. Which Indian lake has high salinity?

A. Dal C. Wular

B. Chilka D. Sambhar

90. Match List I with List II correctly and select your answer using the codes given below:

List I List II

A. Srinagar 1. Krishna

B. Agra 2. Ganga

C. Varanasi 3. Yamuna

D. Vijayawada 4. Jhelum

Codes:

a b c d

A. 4 3 2 1

B. 3 2 1 4

C. 2 1 4 3

D. 1 4 3 2

91. Oriental agriculture is practised in

A. Britain C. Arabia

B. Canada D. India

92. Through which state does the Tropic of Cancer pass?

- A. Bihar
 - B. Uttar Pradesh
 - C. Himachal Pradesh
 - D. Andhra Pradesh
93. The Reserve Bank of India was started in
- A. 1935 C. 1956
 - B. 1948 D. 1960
94. The First Five Year Plan was launched in
- A. 1948 C. 1956
 - B. 1951 D. 1960
95. The Jawahar Rozgar Yojana Scheme is meant for
- A. improving village economy
 - B. training urban house building
 - C. promoting small scale industries
 - D. providing employment to rural youth
96. The State which tops in the yield of foodgrains per hectare is
- A. Andhra Pradesh
 - B. Haryana
 - C. Tamil Nadu
 - D. Punjab
97. In India the density of population is highest in the following state according to 1991 Census:
- A. Kerala C. Bihar
 - B. Tamil Nadu D. West Bengal
98. Which crop is grown in largest area in India?
- A. Rice C. Jute
 - B. Sugarcane D. Wheat
99. Decimal coinage was introduced in India in the year
- A. 1957 C. 1955
 - B. 1957 D. 1960

100. As per the Land Ceiling Act, ceiling on land holding in Tamil Nadu is

- A. 30 standard acres
- B. 20 standard acres
- C. 15 standard acres
- D. 10 standard acres

101. The contribution of Agriculture in Indian National Income is nearly

- A. 50% C. 75%
- B. 38% D. 25%

102. The Bank which recently launched a scheme 'Swagat' is

- A. Punjab National Bank
- B. Gujarat Bank Ltd
- C. Punjab Bank
- D. Canara Bank

103. The largest producer of fish in the world is

- A. China C. Japan
- B. USSR D. Norway

104. A personal account cannot be opened in

- A. a Cooperative Bank
- B. a Scheduled Bank
- C. Reserve Bank of India
- D. None of these

105. The First Five Year Plan covered the period

- A. 1947-52 C. 1951-56
- B. 1950-55 D. 1952-57

83. What is the value of the following determinant?

$$\begin{vmatrix} 8 & 3 & 2 \\ 11 & 4 & 3 \\ 14 & 5 & 4 \end{vmatrix}$$

- A. 0 C. 10
B. 1 D. -15

184.

1

3 2

2 12

++

A. 5

19 B. 19

5 C. 4

5 D. 5

4

185. How many squares are there in the given figure?

- A. 10 B. 15 C. 8 D. 9

186. If the vertex of a parabola is $(2, 0)$ and the directrix is the y-axis, then its focus is

A. $(-2, 0)$ C. $(-4, 0)$

B. $(4, 0)$ D. $(3, 0)$

187. If x

54

96

$x =$, find x

A. 72 C. 36

B. 27 D. 63

188. 0.5 0.5 0.5

0.4 0.1

$+ \times ?$

$+ =$

A. 0.5 C. 0.75

B. 1.5 D. 0.05

189. If A is 1

3 and B is 1

2 of C then

A:B:C is

A. 1:3:6 C. 3:1:6

B. 2:3:6 D. 3:2:6

190. $OA = 2i + j$, and $OB = i - j + k$ are two vectors. The vector perpendicular to both OA and OB

is

A.

$2i - j + k$

C.

$i - 2 - 3k$

B. $3i + k$ D.

$+ - k$

191. How is 3

4 expressed as

percentage?

A. 0.75% C. 75%

B. 60% D. 7.5%

192. How is 1

2 % expressed as a

decimal fraction?

A. 0.5 C. 0.005

B. 0.05 D. 0.0005

193. 5

7 of 644 =

A. 640 C. 1460

B. 460 D. none of these

194. If the day tomorrow is Sunday, what was it yesterday?

A. Wednesday C. Friday

B. Thursday D. Saturday

195. If a clock strikes once at 1

O'clock, twice at 2 O'clock, how

many times will it strike in 24

hours?

A. 156 C. 40

B. 78 D. 12

196. Complete the following series:

7, 8, 10, 13, 17,

A. 22 C. 30

B. 25 D. 40

197. The average of three numbers

is 28. The second number is twice the first. The third number is twice the second. The three numbers in order are

- A. 12, 24, 48
- B. 24, 12, 48
- C. 24, 20, 40
- D. 20, 40, 24

198. For an auditorium $\frac{1}{4}$ of the seats were occupied by boys and $\frac{3}{8}$ by girls. What percentage of the audience consisted of these children?

- A. 62.5% C. 75%
- B. 70% D. 80%

199. Choose the one which is different from the rest three?

- A. 11 C. 15
- B. 13 D. 17

200. Area under normal curve between $Z = -\infty$ and $Z=0$ is

- A. 0.25 C. 0.50
- B. -0.50 D. 0.75