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Total Number of Pages 16

B.V.Sc. & A.H. (Third Professional) Examination – 2022
Veterinary Public Health and Epidemiology Paper -II

To be filled by the candidate:

Candidate's Roll Number:

In figure

In words

Candidate's Enrolment Number:

Day and date of examination:

Please see for general instructions overleaf.

Signatures of invigilators verifying the details filled by the candidate

Signature of invigilator 1: 2:

Candidate should not write anything below this line

Marks to be filled by the examiner:

Section A	
Q. No.	Marks
1.	
2.	
3.	
4.	
5.	
Total	

Total Marks obtained:

In figures: In words:

Signature of examiner:

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B.V.Sc. & A.H. (Third Professional) Examination – 2022
Veterinary Public Health and Epidemiology Paper -II

Time: Three Hours

Maximum Marks: 100
Weightage: 20

Unit-3 (Zoonotic Disease)

Unit-4 (Environmental Hygiene)

Instructions:

- 1) Attempt all questions
- 2) Answer of all questions is to be written in the space provided along with the question in question booklet.
- 3) Overwriting is not allowed in the objective-type question.

Q.1 Write T for True and F for False statement.

(20x 0.5 =10)

- 1.1 Central Laboratory for monitoring air quality is located at Kolkata in India ()
- 1.2 Anthracosis is also called as black lung disease ()
- 1.3 The microbial load of air can be determined by impingement method ()
- 1.4 Roentgen is the unit to measure the decay of radioactive substances ()
- 1.5 Hazen color value of drinking water has been fixed at five ()
- 1.6 Turbidity of water is measured as mg/lit of water ()
- 1.7 A deep well is present below first impervious layer in the ground ()
- 1.8 Shudha micro filter is having Cellulose membrane filter ()
- 1.9 Total Viable Count of the sample gives an idea about the colony forming units present in the sample ()
- 1.10 Bioaeration is related to primary treatment of sewage. ()
- 1.11 Anthracosis is also called as black lung disease ()
- 1.12 Amoebiasis is an airborne disease. ()
- 1.13 Farm waste recycling yields compost. ()
- 1.14 Science of safeguarding health is sanitation ()
- 1.15 JE is an acute arthropod borne viral infection of CNS in human beings. ()
- 1.16 Dengu fever is maintained in nature by man-mosquito-man cycle. ()
- 1.17 Dark field microscope is used in diagnosis of Leptospirosis. ()
- 1.18 KFD is transmitted through a tick bite of *Haemophysalis spinigera*. ()
- 1.19 Vector of yellow fever is *Aedes aegypti*. ()
- 1.20 Bovine spongiform encephalitis is also known as mad cow disease. ()

Q.2 Choose the most suitable answer and write the number of the correct answer 1 or 2 or 3 or 4 in the space given against each sub question:

(20x 0.5 = 10)

- 2.1 Man act as dead end host in case of ()
1. Japanese encephalitis
 2. Tuberculosis
 3. Brucellosis
 4. None of above
- 2.2 Sound becomes hazardous noise pollution at decibels? ()
1. Above 80
 2. Above 100
 3. Above 30
 4. Above 120
- 2.3 The following constitute the group of important occupational zoonoses. ()
1. Rabies, Leptospirosis, Typhus
 2. All of above
 3. Brucellosis, Leptospirosis, Salmonellosis
 4. Anthrax, Trypanosomiasis, Psittacosis
- 2.4 Which of the following is a non-point source of water pollution? ()
1. Factories
 2. Urban and suburban lands
 3. Sewage treatment plants
 4. All of the above
- 2.5 Fluoride pollution mainly affects: ()
1. Kidney
 2. Heart
 3. Brain
 4. Teeth
- 2.6 Among the following, the only secondary pollutant is: ()
1. Sulphur tetraoxide
 2. Ozone
 3. Sulphur dioxide
 4. Sulphur tetraoxide
- 2.7 Which of the following on inhalation dissolved in the blood hemoglobin more rapidly than oxygen? ()
1. Sulphur dioxide
 2. Ozone
 3. Carbon mono-oxide
 4. Nitrous oxide
- 2.8 Smog is: ()
1. A natural phenomenon
 2. Is colourless
 3. A combination of smoke and fog
 4. All of the above

- 2.9 Air pollution from automobiles can be controlled by fitting: ()
1. Cyclone separator
 2. Catalytic converter
 3. Electrostatic precipitator
 4. Wet scrubber
- 2.10 Taj Mahal at Agra may be damaged by ()
1. Sulphur dioxide
 2. Hydrogen
 3. Chlorine
 4. Oxygen
- 2.11 BOD/COD ratio will always be: ()
1. Equal to 1
 2. More than 1
 3. Less than 1
 4. None of them
- 2.12 Among domestic Animals Tularamia is wide spread in ()
1. Chicken
 2. Sheep
 3. Horses
 4. All of above
- 2.13 The largest number of Tiger Reserves are located in : ()
1. Karnataka
 2. Madhya Pradesh
 3. Andhra Pradesh
 4. West Bengal
- 2.14 The word 'ecology' (Ökologie) was coined in 1866 by: ()
1. Charles Darwin
 2. Arthur Tansley
 3. Robert Whittaker
 4. Ernst Haeckel
- 2.15 The *Brucella* organisms have affinity for ()
1. Dulcitol
 2. Erythritol
 3. Mannitol
 4. Lactose
- 2.16 Causative agent of Lyme arthritis is ()
1. *Yersinia pestis*
 2. *Chlamydia psittaci*
 3. *Listeria monocytogenes*
 4. *Borrelia burgdorferi*
- 2.17 KFD is transmitted to man through ()
1. Tick bite
 2. Flea bite
 3. Mosquito bite
 4. All of above

2.18 The most important widespread zoonotic food-borne disease is ()

- 1. FMD
- 2. Coxiella
- 3. Hepatitis A Jaundice
- 4. Poliomyelitis

2.19 Irregular fever, insomnia, chills, sweating & joint pain are characteristic symptoms of ()

- 1. Trichinosis
- 2. Rabies
- 3. Brucellosis
- 4. None of above

2.20 An infection acquired in an hospital or through other health care facility is called as ()

- 1. Nosocomial infection
- 2. Contagious infection
- 3. Notifiable infection
- 4. None of the above

Q.3 Attempt any ten out of the following twelve questions. Answer of each question should be in 2 to 3 lines. (10x2.0= 20)

3.1 Epidemiology

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3.2 Survey

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3.3 Screening

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3.4 Surveillance

3.5 Endemic

3.6 Flocculation

3.7 Sewage

3.8 Break point chlorination

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3.9 Pollution

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3.10 Environmental hygiene

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3.11 Anthracosis

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3.12 Greenhouse gases

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Q.4 Attempt any six out of the following eight questions. Answer of each question should be in 8 to 10 lines. **(6 x 6 = 36)**

4.1 Radiation pollution

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4.2 Disaster management

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4.3 Physicochemical properties of water

4.4 Prevention and control of rabies

4.5 Biological control

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4.6 Filtration techniques of Water.

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4.7 Recycling of farm wastes.

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4.8 Drug Resistance TB and its public health significance.

Q.5 Answer the following question 1-2 pages (Attempt any two) (2x12 = 24)

- 5.1 Who coined the term Zoonoses? Explain classification of zoonoses with suitable examples using flow diagrams.
- 5.2 What are the sources of Air Pollution in animal houses ? What are their effects on human and animals ? How are they controlled ?
- 5.3 a) Draw the life cycle of *Echinococcus granulosu*., justifying its zoonotic potential.
b) Draw the flow chart of Sewage treatment plant.