

Quarterly Exam 2016-17

12th Standard - ZOOLOGY (Pure Science) Key Answer

I. ONE MARKS

- 1.A) Carbohydrate
- 2.B) 1000-1500ml
- 3.D) Callus
- 4.C) 110 A^0
- 5.D) Mycoplasma
- 6.A) Systolic
- 7.C) Calcium
- 8.D) Ivan pavlov
- 9.B) Spermatogenesis
- 10.C) 5734 daltons
- 11.D) Glaucoma
- 12.B) Liver
- 13.A) 81-120 db
- 14.D) Skin cancer
- 15.B) Progesterone
- 16.B) Yersinia pestis
- 17.B) Interferon
- 18.B) Haploid virus
- 19.C) Strobilization
- 20.D) Ascariasis
- 21.A) Spleen
- 22.B) Iso graft
- 23.C) Mast cells
- 24.D) Mitosis
- 25.D) Transposons
- 26.D) Dr Ian Wilmut
- 27.A) Transfection
- 28.B) CO_2
- 29.C) Antarctic
- 30.D) 19-25

II. THREE MARKS

31. Nutrition

The survival of all living organisms is due to several types of nutritive processes. The process of nutrition involves ingestion, digestion, absorption and assimilation of food materials.

32. Marasmus

Reduction in the intake of protein leads to protein malnutrition, such as **marasmus**.

In marasmus the child loses weight and it also causes severe diarrhoea and the body muscles get wasted. It will appear as though the bones are covered by the skin.

33. Uses of water

1. It is an essential constituent of all the cells of the body.
2. It serves as a transport medium for nutrients and excretory products.

3. It serves as a site for chemical reactions

34. Physiotherapy

Physiotherapy is the therapeutic exercise to make the limbs work normally.

35. Herring Breuer reflex

When the alveoli are stretched at the height of inspiration thereceptors send stimuli to the expiratory center of the medulla through the vagus nerve which inhibits further inspiration. This sequence of events is called **Herring – Breuer reflex**.

36. silent infarction

About one in five people experience no chest pain in myocardial infarction. However, there may be fainting, sweating and pale skin. This pattern of symptom is known as “silent infarction”

37. Sleep

Sleep is defined as a state of unconsciousness from which a person can be aroused by appropriate sensory or other stimuli.

1. slow wave sleep 2. REM sleep

38. Chemical messengers

A hormone may be defined as a chemical substance synthesized by the cells of endocrine glands and carried by blood to the site of action where it exerts its physiological effects. Hormones are considered as **chemical messengers**.

39. Optometry

The practice of assessing vision and establishing whether glasses or contact lenses are needed to correct any visual defect is known as optometry

40. GIFT

It is a newer method in which the fertilized ova are introduced into the fallopian tube from where they naturally pass to the uterus for implantation.

41. Diagnosis of AIDS

ELISA test (Enzyme Linked Immuno Sorbent Assay) is a sensitive preliminary blood test used to detect HIV antibodies.

Western Blot is the confirmatory test, which is highly specific and based on specific antibodies to viral core proteins.

42. Crowning achievements

His crowning achievements were Pasteurisation of milk, the development of techniques to reduce the virulence of infectious organism, without eliminating their capacity to produce immunity. In this way he developed vaccines, for the control of “cholera” “anthrax” and “rabies” in man.

43. Paratope and Epitope

The part of the antibody molecule which makes contact with the antigen is termed the **paratope**. the part of the antigen molecule that makes contact with the paratope is called the **epitope**

44. Hormones of thymus

thymulin, thymosin and thymopoietin

45. Gene therapy

Gene therapy involves the replacement of corrective genes in place of defective genes in human. There are two types of gene therapy. They are 1). Somatic cell gene therapy and 2). Germ line cell gene therapy.

46. Super bug

Genetically engineered bacteria are called **superbugs**. Superbugs can degrade several aromatic hydrocarbons, at the same time

47. Bio informatics language

C, C++, JAVA, FORTRAN, LINUX, UNIX .

48. Life span and Life expectancy

Life span is the oldest age to which a species is known to survive.

Life expectancy is the average age that a newborn infant can expect to attain in any given society

49. Effect on human health

non-melanoma skin cancer, melanoma, acute erythema (sun burn), ocular abnormalities, cataract, affect immune responses

50. symptoms of thalassemia

i) decrease in the bone marrow activity, ii) peripheral haemolysis, iii) splenomegaly (enlarged spleen) and hepatomegaly, (enlarged liver) etc.

Prepared by

Mr. K.VINOTHASU

PG ASST ZOOLOGY

(Padasalai Centum Coaching Team Volunteer)

WWW.Padasalai.Net