

Date of Examination



No. of Questions	25
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GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY

SELECTION TEST FOR THE ENROLLMENT OF OFFICER CADETS
INTAKE 41
MBBS Degree Programme

SUBJECT RELATED KNOWLEDGE

Instructions:

Duration: 20 minutes

Answer all questions

Mark the correct answers on MCQ answer sheet which is provided

1. Malaria is transmitted by the bite of
 - a. Aedes mosquito
 - b. Anopheles mosquito
 - c. Armigeres mosquito
 - d. Culex mosquito
 - e. Mansonia mosquito
2. A virus belongs to corona virus family
 - a. Polio virus
 - b. Dengue virus
 - c. HIV
 - d. Influenza virus
 - e. COVID-19 virus
3. Out of the following animal products the **lowest** protein content is found in
 - a. cheese
 - b. chicken
 - c. eggs
 - d. fish (all type)
 - e. pork

4. Base Guanine (G) of DNA of an organism forms 23.3% of its composition. The Base composition of DNA is
- A = T is 23.3% and G = C is 23.3%
 - A = T is 26.7% and G = C is 26.7%
 - A = T is 23.3% and G = C is 26.7%
 - A = T is 26.7% and G = C is 23.3%
 - A = T is 23.3% and G = C is 76.7%
5. Human Immunodeficiency Virus is transmitted through
- breast feeding
 - drinking from the same glass with in an infected person
 - eating food contaminated with blood from a HIV infected person
 - inhalation of droplets released by a patients
 - prolonged skin to skin contact with patient
6. A component of Oral Rehydration Solution (ORS) - Jeewani
- CaSO₄
 - KCl
 - NH₄Cl
 - Sucrose
 - Vitamin A
7. The “Spanish Flu” pandemic was
- 1818-1819
 - 1918-1919
 - 1940-1941
 - 1840-1841
 - 1936-1937
8. Which one of the following is an **abnormal** condition in a healthy adult?
- A respiratory rate of 12-15 per minute
 - A heart rate of 80 beats per minute
 - Blood pressure of 115/70 mmHg
 - A urine output of 400 ml per day
 - Blood glucose level 100 mg/dL under fasting condition

9. Vitamin D deficiency results in

- a. Angular stomatitis
- b. Immune system disorder
- c. Night blindness
- d. Rickets
- e. Scurvy

10. In humans, sickle cell trait is an example for

- a. epigenetics
- b. epistasis
- c. heterozygous dominance
- d. pleiotropy
- e. polygenic inheritance

11. Which of the following is **correctly** matched?

- a. Blood circulation - Edward Jenner
- b. Penicillin - Charles Darwin
- c. Structure of DNA - Alexander Fleming
- d. Vaccination - James Watson
- e. X ray - Wilhelm Roentgen

12. A **false** statement regarding human sense organs

- a. Cone cells in the eye are work well in bright light.
- b. Highest concentration of thermo receptors are found in hands
- c. Normal hearing range of human ear is 20 – 20 000 Hz
- d. Olfactory epithelium is a part of nasal cavity
- e. Taste buds for sweets in the tongue is concentrated on the tip of the tongue

13. Chemical formula of amino acid is

- a. $\text{RCH}(\text{NH}_2)\text{COOH}$
- b. $\text{R}_2\text{CH}(\text{NH}_2)\text{COOH}$
- c. RCHNHCOOH

- d. $R_2CHNHCOOH$
- e. $R_2CHNHCOOH$

14. Which is the most appropriate immediate first aid measure following a snake bite?

- a. Immobilizing the area of the bite
- b. Reassuring the patient
- c. Suck blood from the bite site of the patient
- d. Taking to a hospital
- e. Washing with soap and water

15. Which organ produces excretory matter mainly in the human body?

- a. Brain
- b. Kidney
- c. Large intestine
- d. Liver
- e. Lung

16. Consider the following micro-organism

- i. *Streptococcus thermophilus*
- ii. *Lactobacillus bulgaricus*
- iii. *Clostridium tetani*

Which of the above microorganism(s) is(are) used in curd production?

- a. i only
- b. i and iii only
- c. i and ii only
- d. iii only
- e. ii and iii only

17. Body temperature regulatory center in the human brain is

- a. brain stem
- b. cerebellum
- c. hypothalamus
- d. medulla
- e. prefrontal area

18. Out of following which is **not** a simple reflex action?
- Blinking when sand blows in eyes
 - Jumping when hearing a loud noise
 - Removing hand from a hot object
 - Sneezing when irritants in the nasal passages
 - Steering a car to avoid a crash
19. Inside a home pressure cooker water boiling temperature is
- 121⁰C
 - 80⁰C
 - 70⁰C
 - 100⁰C
 - 111⁰C
20. Out of the following **highest** fat content is found in
- Avocados
 - Cheese
 - Dark chocolate
 - eggs
 - Peanut butter
21. Tuberculosis is transmitted through
- by blood transfusion
 - by breast feeding
 - having prolong skin to skin contact with infected patient
 - inhalation of infectious droplets released by patient
 - sexual contact with patient
22. Chemical formula of glucose is
- C₅H₁₀O₅
 - C₅H₁₀O₆
 - C₆H₁₂O₆
 - C₆H₁₀O₅
 - C₆H₆O₅

23. Which is the most appropriate immediate first aid measure following a dog bite?
- Given paracetamol as a pain killer
 - Immobilizing the area of the bite
 - Reassuring the patient
 - Taking to a hospital
 - Washing with soap and water
24. Which organ consumes oxygen mostly the human body
- Brain
 - Heart
 - Kidney
 - Liver
 - Lung
25. Out of the following which is **not** a genetically transmitted disease/ genetic disorder
- Alzheimer's disease,
 - Huntington's disease
 - Parkinson's disease
 - sickle cell anemia
 - Thalassemia