



SHRI S. H. KELKAR COLLEGE OF ARTS COMMERCE AND SCIENCE, DEVTGAD

SEM II EXAMINATION, OCTOBER 2023 – 2024

PROGRAMME NAME : S.Y. B. VOC HEALTH CARE

COURSE NAME: ANATOMY OF HUMAN BODY – LIFE PROCESSES - II

CODE : USHC301

MAX. MARKS : 100

TIME : 08.30 AM TO 11.30 AM

DURATION : 03 HRS

DATE :     /     / 2023

Please check whether you have got the question paper

- N.B.**
1. All questions are compulsory. Questions 2 to 6 Have as Internal Choice
  2. Figures to the right indicate full marks.

**Q. 1 (A) Multiple Choice Questions.**

**10 marks**

1. Human heart consist of .....chambers.

- a) one b) two c) three d) four

2. Primary function of blood vessels is to transport ..... blood and nutrients to all parts of the body.

- a) oxygenated b) deoxygenated c) impure d) none of these

3. The blood circulates through the heart twice, hence it is called .....

- a) single circulation b) double circulation c) blood circulation d) none of these

4. ....cells are specialized cells which function as a body's defence system.

- a) RBC b) platelets c) WBC d) blood vessels

5. Human have exterior nostrils, which are divided by a framework of cartilaginous structure called .....

- a) septum b) vocal cord c) epiglottis d) pharynx

6. The nasal chambers open up into a wide hollow space called the .....

- a) bronchii b) trachea c) larynx d) pharynx

7. ....are the primary organs of respiration in human and other vertebrates.



a) lungs b) bronchi c) kidney d) larynx

8. .... is that step in the cell cycle where the newly formed DNA is separated and two new cells are formed with the same number and kind of chromosomes as the parent nucleus.

a) mitosis b) meiosis c) telophase d) interphase

9. Before entering mitosis a cell spends a period of its growth under.....

a) prophase b) anaphase c) telophase d) interphase

10. In which stage, the microtubules start pulling the chromosomes with equal force and the chromosomes ends up in the middle of the cell.

a) metaphase b) anaphase c) prophase d) telophase

**(B) State whether following statements are true or false**

**05 marks**

1. Skin is the largest organ of the human body.
2. Skin does not regulate the body temperature by releasing water in the form of sweat and allow sensations such as touch, heat and cold.
3. Epidermis is the outmost layer of the skin.
4. Blood is a fluid connective tissue that consists of plasma, blood cells and platelets.
5. Red blood cells is also known as leucocytes.

**(C) Match the following pairs.**

**05 marks**

Column A

Column B

- |                       |                                |
|-----------------------|--------------------------------|
| i) Red blood cells    | a) synthesizes vitamin D       |
| ii) White blood cells | b) melanin                     |
| iii) Epidermis        | c) leucocytes                  |
| iv) Melanocytes       | d) outermost layer of the skin |
| v) Dermis             | e) erythrocytes                |

**Q2. Answer any two of the following**

**15 marks**

1. Draw a neat labelled diagram of cell and explain its structure ?
2. What is tissue and what are the types of tissue?
3. Explain the composition and formation of blood?



**Q3. Answer any two of the following**

**15 marks**

1. Write note on blood grouping and cross matching?
2. What are the functions of blood?
3. Draw a neat labelled diagram of human heart?

**Q4. Answer any two of the following**

**15 marks**

1. Explain human circulatory system ?
2. Explain human respiratory system ?
3. Draw a neat labelled diagram of human respiratory system and their functions?

**Q5. Answer any two of the following**

**15 marks**

1. Draw a neat labelled diagram of human digestive system?
2. Explain the human digestive system?
3. Draw a neat labelled diagram of human excretory system ?

**Q6. Answer any four of the following**

**20 marks**

1. Explain human excretory system ?
2. Explain the structure of kidney?
3. Explain the term fluid and electrolyte balance ?
4. Explain the term regulation of body temperature?
5. Draw a neat labelled diagram of skin and explain their structure?
6. what is the fuctions of the skin ?