

**DIRECTOR OF HEALTH, MEDICAL SERVICES AND MEDICAL EDUCATION
GUJARAT STATE
30th LABORATORY AND X-RAY TECHNICIANS TRAINING COURSE EXAMINATION
PHYSIOLOGY**

INSTRUCTIONS: 1. Figures on the right indicate marks of each question.
2. Draw diagrams wherever necessary.

Date: 11-08-2018

Time: 2 hours

Total marks: 50

Q.1 (A) Answer any five of the following:

15

- ✓ 1. Write the name of instrument used to record arterial blood pressure. Write normal values of systolic and diastolic blood pressure?
2. Write the uses of low power, high power and oil immersion objectives of microscope.
- ✓ 3. What is normal platelet count? Write its functions.
4. Write normal values of haemoglobin in males and females. What is the cause of difference in these values?
5. Enumerate the enzymes secreted in saliva and write their functions.
- ✓ 6. Write any three properties of skeletal muscles.
7. What is meant by anaemia? Write any three causes of anaemia.

(B) Match the following:

5

- | | |
|--------------------|-------------------------|
| 1. Rods and cones | a. Vitamin-A deficiency |
| 2. Sarcomere | b. Gastric glands |
| 3. Pepsin | c. Retina |
| 4. QRS complex | d. Skeletal Muscle |
| 5. Night blindness | e. ECG |

Q.2 (A) Write short notes on any three:

15

1. Functions of kidney.
2. Functions of WBCs
3. Jaundice
4. Hazards of mismatched blood group transfusion.
5. Menstrual cycle

(B) Write true or false and correct it if it is not true:

1. Neutrophil is the largest cell in peripheral blood. **T**
2. Growth hormone is secreted by pancreas. **F**
3. Haemophilia is a disorder of blood coagulation. **T**
4. In hypoxia oxygen content in blood increases. **F**
5. Presbiopia is difficulty of vision in old age. **F**

Q.3 Fill in the blanks:

10

1. ----- is the structural and functional unit of human body.
2. Normal value of serum albumin is -----.
3. Normal heart rate in human beings is -----.
4. Junction between two neurons is called -----.
5. Normal human body temperature is -----.
6. The process of release of ovum from ovary is called -----.
7. The process of genesis of sperms is called -----.
8. Normal value of blood urea is -----.
9. Hormone insulin is secreted by -----.
10. Fine touch sensation is carried by ----- tract.

Blood clot
Muscle
Nestor
engines

1001
And. med. g.
10/10/10

5
Hem
Fistula

3-5
2-3