

*By Astin for
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GUJARAT STATE
28 TH LABORATORY AND X-RAY TECHNICIANS' TRAINING COURSE EXAMINATION
PHYSIOLOGY

2016

Instructions: 1. Figure to the right indicates marks of each question
2. Draw diagrams wherever necessary.

Date: 10/08/2016

Time: 2 hours

Total marks: 50

Q1. (A) Answer any five of the following:

15

1. What is ESR? How is it measured?
2. What are the functions of hemoglobin?
3. How is a blood smear prepared?
4. What is a spirometer? What are its uses?
5. What is the principle of microscopy?
6. What are the functions of WBC?
7. What is hemostasis?

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(B) Match the following

5

- C* 1. Three lobed WBC.
A 2. Myelin sheath
D 3. Agglutinin
E 4. Hormone
D 5. Blood Cell

- a. neuron 2
b. agglutinin 3
c. neutrophil 2
d. nucleus 5
e. Endocrine gland 4

Q2 (A) Write short notes on any three

15

1. Types of muscles and their functions ✓
2. Menstrual cycle ✓
3. Functions of lung ✓
4. Blood pressure
5. Erythropoiesis

(B) Write True or False and correct it if it is not true

1. Immunity is a function of platelet
2. Afferent neuron carries impulse to CNS
3. Normal value of RBC is 1-2.5 lakh per cubic mm of blood
4. Stomach secretes acid
5. Function of Golgi apparatus is to form ATP

*55 - Dren
50 - Co*

Q3. Fill in the blanks

1. Life span of RBC is 120 days
2. Normal pulse rate is 70 to 80 per minute.
3. Insulin is secreted by Pancreas
4. S.A. nodes is the pacemaker of heart.
5. The nephron is the structural and functional unit of kidney.
6. Oxytocin And Antidiuretic are the hormones of posterior pituitary gland.
7. Pepsin is the enzyme secreted in gastric juice.
8. Normal cardiac output in healthy male is about 5.6 liter/min.
9. Normal GFR is 125 ml/min.
10. Blood pressure is measured with the help of sphygmomanometer meter.

pulse pressure 30 to 50 mmHg

sphygmomanometer

65/100