

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0321]

**MARCH 2021**

**Sub. Code: 1051**

**(AUGUST 2020 EXAM SESSION)**

**DIPLOMA IN ACCIDENT AND EMERGENCY CARE TECHNOLOGY**

**FIRST YEAR (Regulations 2015-2016 & 2018-2019)**

**PAPER I – ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY**

***Q.P. Code : 841051***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail about composition of blood and its functions.
2. Write in detail about all the fat soluble Vitamins.
3. Heart – borders, chambers, valves, blood supply and applied anatomy.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Intercostal space.
2. Functions of cerebrospinal fluid.
3. Role of bile in digestion.
4. Type of muscle.
5. Hormones secreted by the adrenal gland and their functions.
6. Vertebral column.
7. Functions of (a) Cell Membrane (b) Golgi apparatus (c) Mitochondria
8. Cranial Nerves.
9. Draw a structure of eye.
10. Menstruation.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Basal metabolic rate.
2. Define pH.
3. Define tachycardia and bradycardia.
4. Bleeding time and clotting time.
5. Sesamoid bone.
6. List any two functions of cerebrum.
7. Vocal cord.
8. Functions of tongue.
9. Name any three female reproductive organs.
10. Blood pressure.

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