

SEAT No. _____

No. of Printed Pages : 1+1

[A-3]

SARDAR PATEL UNIVERSITY EXAMINATIONS

First Year B. Occupational Therapy Examination

Tuesday, 30th January 2018

Time: 10.00 am to 1.00 pm

Subject: Human Physiology (B.O.T- 102)

Total Marks: 70

Instructions:

1. Section- I is MCQ and is to be attempted on a separate MCQ Sheet.
2. Write the answers for Section-II and Section-III in a separate answer book.
3. Draw figures or diagrams where necessary.
4. Figures in bracket indicate total marks allotted to each question.

SECTION-I

- Q. 1. MCQ: Read the instructions on the MCQ sheet and attempt the MCQs. (10 Marks)**

SECTION – II

- Q. 2. Write long answer question (Any One out of Two) (1×15 Marks= 15 Marks)**
a) Describe in detail mechanism and stages of hemostasis.
b) Explain in detail classification of synapse & reflexes.
- Q. 3. Write long answer question (Any One out of Two) (1 × 10 Marks=10 Marks)**
a) Write a detail note on Erythropoiesis.
b) Describe in detail temperature regulation.
- Q. 4. Write Short Notes (Any One out of Two) (1 × 05 Marks=05 Marks)**
a) Describe hazards of mismatch blood transfusion.
b) Explain effects during exercises.

SECTION – III

- Q. 5. Write long answer question (Any One out of Two) (1×15 Marks= 15 Marks)**
a) Describe in detail cardiac cycle & explain its event with diagram.
b) Describe in detail puberty & menopause.
- Q. 6. Write long answer question (Any One out of Two) (1 × 10 Marks=10 Marks)**
a) Describe in detail physiology of voluntary movement.
b) Describe in detail physiology of deglutition.
- Q. 7. Write Short Notes (Any One out of Two) (1 × 05 Marks=05 Marks)**
a) Explain mechanism of muscle contraction.
b) Explain function of liver.

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1. There are 10 MCQs and all are compulsory.
2. Encircle on the most appropriate answer.
3. Overwriting would be considered as a wrong answer.

SECTION-I**Q. 1. MCQ: Read the instructions on the MCQ sheet and attempt the MCQs. (10 Marks)**

1] Action of gall bladder in parasympathetic division of ANS is a) dilation b) contraction c) relaxation d) none	2] Which complex is called ventricular depolarization in ECG? a) RST b) QRS c) STU d) P
3] Submucous layer of wall of GIT is present in a) Stomach b) ileum c) large intestine d) esophagus	4] Increase in white blood cells is called a) polycythemia b) leucopenia c) leucocytosis d) thrombocytosis
5] Immediate source of energy for muscle contraction is a) Adenosine b) proteins c) ATP d) ketones	6] Sarcomere of the muscle is the area between a) Two Z line b) Two light bands c) Two dark bands d) Two myosins
7] Loss of appetite is known as a) Anorexia b) Anemia c) Alopecia d) Amnesia	8] Male reproductive hormone is a) estrogen b) gestrogen c) testosterone d) Progesterone
9] Normal GFR in an average sized man is approximately a) 180 L/day b) 180 ml/min c) 125 L/day d) none of above	10] Mechanism of proliferation of blood cells are known as a) Haemostasis b) Haematopoiesis c) Haemoglobinopathes d) Homeostasis

