14401

BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Sc.(MRIT)-2022/B.Sc.(MRIT)-2023/B.Sc.(MRIT)-2024
Course Name – Human Anatomy & Physiology Part II
Course Code - BMRITC201
(Semester II)

Full Marks : 60 **Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Multiple Choice Type Question) 1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Recognize the Structure entering the hilum of right kidney
a) ureter b) renal vein
c) left renal artery d) none of these

(ii) Select the correct volume of urine required to reach the maximum capacity of urinary bladder after which Painful sensation
a) 400ml b) 500ml
c) 450ml d) 300ml

(iii) which of the following structure is equivalent to the vagina in male.Select correct option
a) prostatic utricle b) seminal vesicle
c) bulbo-urethral gland d) none of these

(iv) Identify the location of the urinary bladder in the human body.
a) Abdomen b) Thorax
c) Pelvis d) Head

(v) myelencephalon can be catrgorised under which portion of the nervous system. Identify the correct option
a) prosen-cephalon b) mesen-cephalon
c) rhomben-cephalon d) dien-cephalon

(vi) Identify the space in which csf is found.
a) epidural space b) sub-dural space
c) sub-arachnoid space d) none of these

(vii) Choose the normal value of GFR is-

a) 180 ml/Day
b) 125 ml/min
c) 140 ml/min
d) 100 ml/min

(viii) Statr the fertilization of human egg by the sperms takes place in

a) Ovary
b) Fallopian tube
c) Vagina
d) Uterus

(ix) Define the onset of the reproductive age is called ____.

a) Menstruation
b) Menarche
c) Menopause
d) Puberty

(x) Choose which of the following would NOT be found in the outer ear?

a) hair
b) sebaceous glands
c) pharyngotympanic tube
d) modified sweat glands

(xi) Which maternal blood vessel(s) supplies blood to the placenta?

a) Uterine artery
b) Internal iliac artery
c) External iliac artery
d) Ovarian artery

(xii) What is the main function of the placenta during pregnancy?

a) To produce hormones necessary for fetal development
b) To provide a barrier between the maternal and fetal bloodstreams
c) To facilitate gas exchange and nutrient transfer between the mother and fetus
d) To store nutrients for the developing fetus

(xiii) What is the function of the fetal liver in circulation?

a) To produce red blood cells.
b) To metabolize nutrients and remove waste products.
c) To produce hormones necessary for fetal growth.
d) To regulate blood pressure.

(xiv) Tell What is the fate of an oocyte that is not fertilized during the menstrual cycle?

a) It is reabsorbed by the body.
b) It is expelled from the body during menstruation.
c) It remains in the ovary until the next cycle.
d) It is stored in the fallopian tube.

(xv) What is the name of the valve-like structure that identifies the junction between the urinary bladder and the urethra?

a) Sphincter
b) Papilla
c) Hilum
d) Pylorus

Group-B

(Short Answer Type Questions) 3 x 5=15

2. Describe the Overall functions of Nephron. (3)
3. Describe the steps of spermatogenesis along with proper diagram. (3)
4. Describe the macroscopic and microscopic structure of a skeletal muscle. (3)
5. Describe the structure of the eyeball with a proper diagram. (3)
6. Evaluate short notes on Dwarfism, Exopthalmos, Myxoedema. (3)

OR

Illustrate the histological structure of fallopian tube. (3)

Group-C

(Long Answer Type Questions) 5 x 6=30

7. Write the structure of the breast with lymphatic drainage. Summarize that in a diagram. (5)
8. Write a short note about the placenta. (5)
9. Discuss the features seen in a cross section of spinal cord with proper diagram. (5)
10. Summarize the hormone released by hypothalamus and their function. (5)
11. Describe the gustatory pathway along with a proper diagram. (5)
12. Explain different types of muscle: cardiac, smooth and skeletal. (5)

OR

Explain the mechanism of nerve impulse conduction. (5)

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