

COLLEGE INTERNAL EVALUATION (CIE)-2023
DR KANAILAL BHATTACHARYYA COLLEGE
6th SEMESTER, SUBJECT-PHYSIOLOGY HONOURS, (DATE: 16/05/2023)

FULL MARKS-20

TIME-1 HOUR

PAPER-CC13

1. Answer any 5 questions from the following: 5×2=10

- a) State the difference between Sertoli and Leydig cell.
- b) What are the functions of inhibin?
- c) What is cryptorchidism?
- d) What is puberty?
- e) What is parturition?
- f) What is acrosome. Mention its function.
- g) What is stem cell?
- h) What is totipotency?
- i) Define gastrulation.
- j) What is foetal-ejection reflex?

PAPER-CC14

1. Answer any 5 questions from the following: 5X2=10

- a) Define filtration fraction.
- b) What is PAH clearance test? Mention its use.
- c) Draw a suitable diagram showing neural connections of urinary bladder.
- d) What is the importance of brown fat in the regulation of body temperature?
- e) What is TmG?
- f) What is the cause and symptoms of Diabetes insipidus?
- g) Name the forces involved in glomerular ultra-filtration.
- h) Distinguish between eccrine and apocrine sweat glands.
- i) Why renal circulation is called a portal system? Justify.
- j) What are non-ionizing radiations? Give any two examples.

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FULL MARKS-20

TIME-1 HOUR

PAPER-DSEA4

1. Answer any 5 questions from the following: 5×2=10
- a) Define undernutrition and overnutrition.
 - b) Write any two differences between Marasmus and Kwashiorkor.
 - c) State any two importance of family planning.
 - d) What are the characteristic signs and symptoms of IDD?
 - e) What are communicable diseases? Give two examples.
 - f) Define assisted reproductive technology (ART). Give two examples.
 - g) Name any two preventive measures to control Hepatitis B infection.
 - h) What causes Japanese Encephalitis and Swine flu?
 - i) Mention any two differences between Rickets and Osteomalacia.
 - j) Mention any dietary approaches that should be taken for the management of hypertension.

PAPER-DSEB3

2. Answer any 5 questions from the following: 5X2=10
- a) What are zeitgebers? Give examples.
 - b) Why SCN is regarded as the biological clock?
 - c) Define circadian rhythm. Give any two examples in human.
 - d) What are PERIOD genes?
 - e) What are stressors? Give examples.
 - f) What are somnogens?
 - g) What is the difference between ultradian and infradian rhythm?
 - h) Draw the Retino-hypothalamic tract. What is its importance?
 - i) Define heat stress.
 - j) What is Zet lag?

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COLLEGE INTERNAL EVALUATION (CIE)-2023
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4TH SEMESTER, SUBJECT-PHYSIOLOGY HONOURS, (DATE: 16/05/2023)

FULL MARKS-20

TIME-1 HOUR

PAPER-CC8

1. Answer any 5 questions from the following: 5×2=10
- What are the functions of myenteric plexus?
 - What is Kupffer cell?
 - What is Brunners gland? Mention its function.
 - What do you mean by portal triad?
 - Describe the reaction catalyzed by L-glutamate dehydrogenase and mention its significance.
 - Mention the difference between hexokinase and glucokinase.
 - What is oxidative deamination?
 - Discuss the step where substrate-level phosphorylation takes place in TCA cycle.
 - Why PEK-1 is the rate limiting steps of glycolysis?
 - Write the significance of R-L cycle?

PAPER-CC9

2. Answer any 5 questions from the following: 5X2=10
- What is meant by the coding strand of DNA?
 - What is codon?
 - What is wobble hypothesis? State its significance.
 - Write the difference of inducible and repressible operon with example.
 - What do you understand by recombinant DNA?
 - What is meant by R value in chromatography?
 - What is replication bubble?
 - State two important applications of PCR.
 - Name any two radioisotopes used in tracing metabolic pathways.
 - What is the role of Rho factor in transcription?

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4TH SEMESTER, SUBJECT-PHYSIOLOGY HONOURS, (DATE: 16/05/2023)

FULL MARKS-20

TIME-1 HOUR

PAPER-CC8

1. Answer any three questions: 3×2=6
- What are the functions of myenteric plexus?
 - What is Kupffer cell?
 - What is Brunners gland? Mention its function.
 - What do you mean by portal triad?
 - Describe the reaction catalyzed by L-glutamate dehydrogenase and mention its significance.
 - Mention the difference between hexokinase and glucokinase.
 - What is oxidative deamination?
 - Discuss the step where substrate-level phosphorylation takes place in TCA cycle.
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4TH SEMESTER, SUBJECT-PHYSIOLOGY HONOURS, (DATE: 17/05/2023)

FULL MARKS-20

TIME-1 HOUR

PAPER-CC10

1. Answer any 5 questions from the following: 5×2=10

- a) Mention one function of cyanocobalamin.
- b) State the deficiency symptoms of folic acid.
- c) What are Antivitamins? Give example.
- d) Why vit-C deficiency lead to anaemia?
- e) What is hypervitaminosis? Give example.
- f) Mention any two important dietary sources of calcium.
- g) Define B.M.R. mention its normal values?
- h) What do you mean by ACU?
- i) What do you mean by positive and negative nitrogen balance?
- j) Mention any two importance of dietary fibres.

PAPER-SECB

2. Answer any 5 questions from the following: 5X2=10

- a) Differentiate food additive and adulterants with examples
- b) Mention any two uses of metanil yellow.
- c) Mention any two toxic effects of rhodamine B.
- d) Mention any two hazardous effects of aluminium foil.
- e) What is Chinese restaurant syndrome?
- f) why saccharine is harmful for gut microbiota?
- g) Mention any two physiological effects of dioxin.
- h) Mention two sources of bisphenol-a exposure on human body.
- i) Mention two sources of PCBs.
- j) What is incidental adulteration?

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2nd SEMESTER, SUBJECT-PHYSIOLOGY HONOURS, (DATE: 16/05/2023)

FULL MARKS-20

TIME-1 HOUR

PAPER-CC3

1. Answer any 5 questions from the following: 5×2=10
- a) What is GGPCR? Give one example.
 - b) Differentiate between G-actin and F-actin.
 - c) What is Nissl Substance?
 - d) Define Rheobase and Chronaxie.
 - e) Why A-fibres possess higher conduction velocity than A δ -fibres?
 - f) What is titin?
 - g) Define refractory period.
 - h) What is EPSP and IPSP?
 - i) What is isometric and isotonic muscle contraction?
 - j) Distinguish between neurotransmitters and neuromodulators.

PAPER-CC4

2. Answer any 5 questions from the following: 5X2=10
- a) What are meant by meninges of brain?
 - b) State Bell-Magendi law.
 - c) Distinguish between ionotropic and metabotropic receptors.
 - d) What is the origin and function of the Tract of Gall and Burdach?
 - e) What is the structure of nicotinic acetylcholine receptor?
 - f) Mention any two functions of histamine receptors.
 - g) State one merit and demerit of MRI.
 - h) Mention any two uses of CT SCAN.
 - i) Mention one exogenous and two endogenous opioid peptides.

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