2012

Time: 3 hours

Full Marks: 100

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer five questions, selecting at least one from each Group, in which Q. No. 1 is compulsory.

- Choose the correct answer from the options given below: 1×20 = 20
 - (a) Amylopectin is a:
 - (i) Protein
 - (ii) Lipoprotein
 - (iji) Polysaccharide
 - (iv) Oligosaccharide
 - ((b)) Starch is found by condensation of :
 - \bullet (i) α − D glucose

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(Turn over)

- (ii) β D glucose
- (iii) Both (i) and (ii)
- ∜(iv) None of the above
- (c) Which one is an essential amino acid?
 - (i) Valine
 - (ii) Alanine
 - (iii) Cystein
 - '(iv)' None of the above
- (cl) Proline is an/a:
 - (i) Aromatic amino acid
 - Imino acid (ناب)
 - (iii) Heterocyclic amino acid
 - (iv) None of the above
- (e) Chemical name of Vitamin E is:
 - (i) Calciferol
 - Tochopherol
 - (iii) Ascorbic acid
 - (iv) None of the above
- (f) Enzyme involved in the phosphorylation of glucose to glucose 6 phosphate is:
 - (i) Phosphoglucomutase

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(2)

Contd.

Pictor.
(ii) Hexokinase
(iii) Phosphorylase
√(iv́) Glucokinase
Nyctalopia and Keratomalacia is t
due to deficiency of :
(i) Vitamin-A
(ii) Vitamin-D
(iii) Vitamin-C
(iv) Niacin
Which one of the following prom
synthesis of bile by the liver?
(i) Hepatocrinin
(ii) Cholecystokinin
(iii) Secretin
iv) Enterocrinin
Casein is a protein present in :
i) Muscle
Milk ·
iii) Serum
v) All of the above
/4 (3) (Turn ove

ucrose is hydrolysed into glucose and fructose by : Maltase (iii) Invertase (iii) Lactase (N) Amylase Deficiency of folic acid leads to H Dry Megaloblastic Anaemia Pernicious Anaemia Pil (iii) Leucopenia Both (i) and (iii) Lacteals are associated with: Stomach (ii) Liver 涮) Intestine (iv) Pancreas Myoglobin is found abundantly in muscles Rat (iii) Dolphin (iv) Man

(h)

(i)/

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(n) Stuart-Power factor is factor:

(i) X

(ii) VIII

(iii) XII

(iv) None of these

(o) Which one is considered as anti-pyretic, anti-inflammatory and immunosuppressive agent?

ं) Glucocorticoides

(ii) Mineralocorticoides

(iii) Catecholamines

(iv) None of the above

(p) Insulin is secreted by:

(i) Alpha cell

(ii) Beta cell

(iii) Gamma cell

(iv) None of the above

(g) Which one is called as pregnancy hormone?

(i) Estrogen

、(リア Progesterone

(iii) Androgen

(iv) All of the above

(r) Glucagon increases blood glucose level by increasing :

(i) Glycogenesis

(ii) Glycogenolysis

(iii) Gluconeogenesis

لَّهُنُ Both (ii) and (iii)

(s) Diabetes insipidus is caused due to deficiency of :

(i) Insulin

(ii) Glucagon

ADH (iii)

(iv) Oxytocin

Which one of the following is known as "hormones of emergency "or" hormones of flight or fight"?

(i) Mineralocorticoides

(#) Glucocorticoides

(iii) Catecholamines

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(5)

(Turn over)

Group - A

2. Write notes on any two of the following:

10,

- (a) Essential Amino Acids
- (b) Glycogenesis
- (c) Vitamin D
- (d) Role of Saliva
- (e) ADH
- (f) Corpus luteum
- Give an account of structure and classification lipids.
- Give a self-explanatory diagramma representation of Kreb's Cycle. Comment of the energetics of the cycle.
- Describe the various type of Vitamins of complex and their physiological role.

10+10=

Group - B

What do you mean by lung ventilation ? Giv

HV - 142/4 (7) (Turn c https://www.tmbuonline.com unt of the physiology of gaseous exchange dissilung alveoli as well as in the tissue.

5+15 = 20

Fido you understand by Osmotic Anatomy?

First the mechanism of water and electrolyte

Fiation in Man. 5+15 = 20

escribe various steps of urea synthesis and the eschanism of its removal.

Group - C

escribe the chemical nature and functions of commones secreted by the Adenohypophysis. 20

physiological actions of the hormones secreted by Pancreatic islets

Write the name of various ovarian hormones and their physiological notes in female.

XXXXXXXX

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