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Q1-Define the following ?Answer only 5 (10Marks).

Milking , animal diseases & Hygiene , multiple suckling regimes ,
monophyletic , esophageal groove , Persistency , Puberty .

**Q2-What are the advantages of the following and how can be
done ?Answer only(3)(15Marks).**

- 1-Flushing up and steaming up for ewes .
- 2-Artificial rearing .
- 3-Artificial milking .
- 4-Using heifer born in the flock than those buying .

Q3-Comment why ?Answer only (5)from the following (15Marks).

- 1-Its recommend to give the diluted yogurt for calf rearing.
- 2-it's recommend to inhibit and reduce the water for pregnant cows before
parturition .
- 3-Concentrate diet is preferable for calf feeding with liquid than
roughages.
- 4-The cow starts to lick its calf soon after parturition .
- 5-It's recommended to give concentrate diet to pregnant ewes in late
pregnant period.
- 6-Adding vitamin mix ADEK to skim milk for calf feeding .

Q4-Answer 4 of the following (20Marks).

- 1-list the difficulties faced animal resources in Iraq .
- 2-Arsidae family are none true hibernators ?list the physiologic traits of
this phenomenon .
- 3-What are the disadvantages of using liquid feeding ?
- 4-What do you know about Karadi& Hampshire sheep .
- 5-Explain the advantages & disadvantages of castration.

Dr.Suad :Correct only (20) of the following (20 Marks)

- 1-Camels milk has a slightly bitter taste .
- 2-The antibodies are transferred to the foal through the placenta .
- 3-The upper dental pad is soft .
- 4-The camelida stomach has only five compartment compared to the four in true ruminants .
- 5-The birth weight in buffalo is 270-400 kg
- 6-The length of the uterus cycle in the buffalo is 28 days .
- 7-Fertility of thin mare is improved if they are gaining weight at the time of mating .
- 8-An Abortion is defined as expulsion of an equine fetus before day 500 of gestation .
- 9-The duration of gestation is sometimes exceeding long , being 2360 days or more days in length , with major effects on the fetus and mare .
- 10-Immunization of the pregnant mare serves for protection of the dam and eventual protection of the fetus foal.
- 11-Vaccine boosters should be administered 5 months before the projected foaling date to optimize clostrol antibody concentration against the disease .
- 12-Water turnover allows shorter time between drinking .
- 13-The ability of the kidney to concentrate urine is an important factor to survival in camels .
- 14-The Camel stomach has only three compartment .
- 15-Estrus is that time during which the female will refuse the services of the male .
- 16-Avoid use palpation to the ovary to keep the fetus at early pregnancy in mare .

17-CL is the only source of progesterone hormone during early pregnancy in cow .

18-PGF_{2α} cause growth of CL.

19-Dromedary Camel has two hump

20-Pink mucus from the vulva mean cow in pregnant .

21-The length of estrus period in the mare is shorter than other species

22-The mare will only accept the stallion for about 2 months .

23-Mare becomes quieter in the presence of the stallion ,raises her head , squats , urinates .

24-hump is fat tissue on the chest of the Camel

25-Estrus cycle physiologic event , happen before puberty in female in ewe 17-19 days .

26-The sources of progesterone in pregnant mare are CL and udder .

27-Palpation per rectum is most common and very low pregnancy detection method .

Q2-Cyclic activity is affected by lactation (10 Marks)



Good Luck

Q. 1. Answer only **two** of the followings questions:

- A. Classify the penis of the ox and horse.
- B. Anatomical structures of the spermatic cord.
- C. Enumerate openings of the right atrium.

Q. 2. Full in four of these blanks:

- A. The heart of cow characterized by presence of.....
- B. The penis of dog characterized by presence of.....
- C.conducted between the epididymis and colliculus seminalis.
- D. Kidney of the sheep classify astype.
- E. Pampiniform plexus is a part of the

Q. 3. Answer only **four** of the followings questions:

- A. Enumerate the types of joints according to the uniting medium.
- B. Enumerate the structures of the synovial joints.
- C. Enumerate the anatomical structures of the equine stay apparatus of the hind limb only.
- D. Enumerate the types of bones with an example for each
- E. Draw and label the secretory and duct system of the mammary gland.
- F. Enumerate the sesamoid ligaments of the fetlock joint.

Q. 4. A. Describe the anatomical structures of the hip joint of the horse.

- B. Define only **three** of the following: synovial cavity, tendon, skeletal muscle, composite joint.

Q. 5. A. Answer only **two** of the followings questions:

- I. Mention the three different points between the female genital system of the mare and cow.
- II. Classify the types of placenta in domestic animals (with example).
- III. Enumerate the main parts of the hoof and the pododerm (corium of the hoof).
- B. Mention the main parts of these organs: uterus, uterine tube, broad ligament of the female genital system.



Good Luck

Q1:-Answer the following questions :- (25 marks)

1-Define the following terms:-

- a- feed conversion b-poultry by production c- Beltsville

2-Discuss the followings:-

- a- What do we mean by economic traits in poultry production.
b- How we can improve the poultry industry in Iraq

Q2 :Describe the following terms concern to poultry houses:(25Marks)

- a. Direction of the poultry Houses .
b. ventilation system a cross the houses.
c. Thermal insulation is very important in the poultry houses.
d. the purpose of the ventilation .

Q3: 1-Answer the following questions (answer only three).(25 Marks)

- a. Discuss methods used in recording egg production for laying flocks.
b. Mension only the main endocrine glands with their secreted hormones in chickens.
c. Absences of voice in the female fowl.
d. Compare between floor (litter) system and cage system for laying hens.

1-Define the following terms

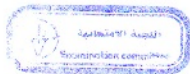
- a-Caecal tonsiles b- Syrinx c-Sensible heat lost.

Q4:-Explain why-(25 Marks)

- 1- High mortality in embryos during 2-5 days of incubation period.
- 2- Increasing Humidity in the Hatcher during last period (19-21)days of incubation.
- 3- Turnining eggs is necessary.

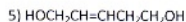
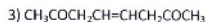
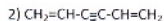
1-Define the following terms:-(Answer only Three)

- a- Back crossing
- b- close inbreeding
- c- Reciprocal crossing
- d- Artificial insemination



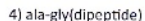
Good Luck

Q1:A) Name each of the following compounds by the IUPAC- system (Answer only four):-



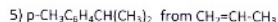
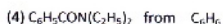
(12 mark)

B) Draw a structural formula for each of the following compounds (Answer only four):-



(12 mark)

Q2: A) Prepare each of the following compounds. You can use any inorganic or organic reagents necessary (Answer only four):-



(24 mark)

B) Define each of the following terms and give example for each term (Answer only four):-



(20mark)

Q3: A) What are the differences between the following (Answer only three):-

- 1) D- glucose and α -D- glucose (2) Maltose and cellobiose
- 3) Primary structure of proteins and secondary structure of proteins
- 4) Enantiomers and racemic mixture (12 mark)

B) Fill in the blanks (Answer only four):- 1) A buffer system consist of _____ and its _____.

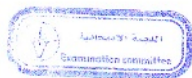
- 2) Carbohydrate are actually _____ and their derivatives.
- 3) The acetals of monosaccharides are called _____.
- 4) In complete hydrolysis of amylopectin yields _____ and _____.
- 5) Fats and oils are _____ or _____, both terms meaning _____.

(12 mark)

C) How do you distinguish between each of the following compounds, explain your answer with chemical equation (Answer only one):-



(8 mark)



Good Luck

ملاحظة// اجب عن سوالين فقط . .

س ١- عرف ثلاثة فقط ؟

(الانتخاب - الديمقراطية - الاستفتاء الشعبي - الديمقراطية المباشرة)

ب - ماهو نظام الاغلبية وضح ذلك بالتفصيل ؟

س ٢/ ماهي الديمقراطية النيابية وماهي خصائص النظام النيابي وضح ذلك بالتفصيل ؟

س ٣/ اجب عن فرع واحد فقط :-

أ- ماهي اختصاصات البرلمان وضحها ؟

ب - ماهي شروط الناخب والمرشح وضحها بالتفصيل ؟

اسئلة حقوق الانسان

ملاحظة// اجب عن سوالين فقط

س ١/ تكلم عن ثلاثة من الحريات المتعلقة بمصالح الافراد المعنوية ؟

س ٢/ تكلم عن موقف الشريعة الاسلامية من النهوض بالمرأة ؟

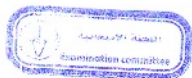
س ٣/ اذكر الشواهد الاساسية التي تؤكد حماية حقوق الانسان في مصر الفرعونية ؟



Good Luck

ANSWER ONLY FIVE

- Q.1.a- what are the function of the cell membrane?
b- list the organelles found in Eukaryotic cells.
(answer one)
- Q.2.a- what is the genetic material in the prokaryotic cells?
b-What is the difference between prokaryotic cells and Eukaryotic cells
- Q.3.a- what is the function of flagella?
b- what is the cell?
- Q.4.- Bacteria have different morphological shape what are they ?
give one example for each.
- Q.5- What is the difference between RNA and DNA?
- Q.6- What is the main difference between Taenia solium and Taenia saginata ?



Good Luck

NOTE : Answer All Questions .

Q1: Answer the following (Chose either a or b)

a- What do you mean by these statements

1. Sum (B1 : B6).
2. Mean (C1 : C3).
3. Min (D6 : D8).

b- Enumerate the main differences between Excel and Words program .

Q2: Answer the following

a- Define the following (2 Only)

1. Range .
2. Notes pane .
3. Basic language .

b- Solve these problems

1. $(6 \cdot 3^2) - (53 + 1)$
2. $75 / (3 - 4 + 16) + (92 - 88)^2$

Q3: Answer the following

a- Find $1001101 + 1001$

b- Convert 30 to binary

c- What is the abbreviation (HTML) mean ?



Good Luck