

All questions should be answered

١--Please interpret the following results of blood and serum analysis from a patient : Canine,male, ٦ years old (٦ marks)

History: previous corticosteroid administration

Presenting problem: lethargy, weakness,pale mucous membrane,icterus.

LABORATORY DATA:

<u>Hematology</u>		<u>Serum Chemistry</u>	
Hct	١٥,٠	L%	١٨ mg/dl
Hb	٤,٤	L g/dl	٠,٥ mg/dl
RBC	١,٧٩	$L \times 10^7/\mu l$	٦,٥ g/dl
MCV	٨٤	H fl	٢,٩ g/dl
MCH	٢٤,٦	pg	٠,٨١
MCHC	٢٩,٣	L%	٦٢٥ H U/L
Retic	٢٤	H%	٥٣٦ H U/L
Abs retic	٤٣٠	$H \times 10^7/\mu l$	Glucose ٩٣ mg/dl
NRBC	٣	$H/100 WBC$	Total bilirubin ٩,٨ H mg/dl
RBC morphology: anisocytosis, polychromasia, spherocytes		Conj.bilirubin ٤,٣ H mg/dl	
MPV	١٥	H fl	<u>Urinalysis</u>
WBC	٤,٧	$H \times 10^7/\mu l$	Urine source voided
Seg	٣٣,٧٦ (٨٠%)	$H \times 10^7/\mu l$	Color yellow
Band	٤,٤٧ (١٠%)	$H \times 10^7/\mu l$	Turbidity hazy
Lymph	٠,٤٤٧ (١%)	$L \times 10^7/\mu l$	Sp. Gr. ١,٠٠٧
Mono	٤,٠٢٣ (٩ %)	$H \times 10^7/\mu l$	pH ٧,٥
Eos	٠,٠	$\times 10^7/\mu l$	Bilirubin ٢ +
Baso	٠,٠	$\times 10^7/\mu l$	

WBC morphology: normal

Direct antiglobulin (Coombs') positive

٦-Short account on

(٦ marks ١,٠ for each)

- a- Shift to left
- b- Azotemia
- c- Leukopenia
- d- ALT

٦-By laboratory means how can you differentiate between? (٦ marks, ٦ each)

- a) Relative and absolute polycythemia..
- b) Favorable and unfavorable prognosis
- c) Prehepatic and obstructive jaundice

٦-Write full account on

(٦ marks, ١,٠ each)

- a- Diagnosis of inflammation and necrosis of pancreatic acini.
- b- Classification of anemia .
- c- Aplastic anemia.
- d- Water deprivation test .

GOOD LUCK

Kafrelsheikh university
Facu.of Vet.Medicine
Depts. Of clinical pathology
Exam for undergraduate students (old system)
٩/١/٢٠١٣ time allowed two hours



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