



## الموضوعات البحثية الخاصة بالمقررات الدراسية الفرقة الرابعة حديث الفصل الدراسي الثاني للعام الجامعي 2019- 2020

## 1- الباثولوجيا الخاصة والتشريح المرضي

اسم القسم: الباثولوجيا

اسم المقرر : الباثولوجيا الخاصة والتشريح المرضي (2)

كود المقرر PAT:4250

الفرقة: الرابعة حديث

م	الموضوعات البحثية	مواصفات
1	Bacterial diseases causing abortion in cattle	<p><b>1- Introduction (5 marks)</b></p> <p><b>2- Categories (items) (25 marks)</b></p> <p>a-Etiology &amp; pathogenesis</p> <p>b-Gross pathology</p> <p>c-Histopathology</p> <p>d- differential diagnosis</p> <p><b>3-Conclusion (5 marks)</b></p> <p><b>4-References (5 marks)</b></p> <p>يجب الا تزيد عدد صفحات البحث عن 15 صفحة</p>
2	Bacterial diseases causing abortion in sheep	
3	Stormy abortion (brucellosis)	
4	Placental role in bovine abortion	
5	Bacterial diseases of equines causing pyogranulomatous reaction	
6	Bacterial diseases, of equines, causing pulmonary lesions	
7	Bacterial diseases, of equines, causing lymphangitis	
8	Epizootic lymphangitis	
9	Pathology of omphalophlebitis	
10	Pathology of colibacillosis	
11	Pathology of necrotic stomatitis	
12	Pathology of salmonellosis-	
13	Clostridial diseases caused by wound infection.	
14	Clostridial diseases caused by alimentary tract infection.	
15	Role liver flukes in occurrence of black disease in cattle.	
16	Bacillary hemoglobinuria .	
17	Differentiate pathologically between bacterial disease causing pneumonia in cattle	
18	Pathology of muscles and parasitic affection	
19	Pathology of immature liver flukes	
20	Lung worm pathology	
21	Pathology of mature liver flukes	
22	Role of liver flukes in occurrence of black disease in cattle	
23	Myiasis	
24	Parasitic affections of skin	
25	Bovine tuberculosis forms in association with economics	
26	Lumpy jaw	
27	Wooden tongue	
28	Caseous lymphadenitis	
29	John's disease	

## 2- مقرر: الامراض الباطنة (جزء ثان)

اسم القسم: طب الحيوان

اسم المقرر : الامراض الباطنة (جزء ثان)

كود المقرر IMD:4251

الفرقة: الرابعة حديث

م	الموضوعات البحثية	مواصفات
1	Diagnosis of urinary tract disorders in animals.	يرجى اتباع الارشادات العامة عند كتابة البحث
2	Pyelonephritis in cows	
3	Affections of the kidney in animals.	
4	Urolithiasis in animals	
5	Cystitis and urinary bladder paralysis in horses.	
6	Principle manifestations of animal skin diseases	
7	Skin lesions	
8	Pruritus	
9	Principal manifestations of musculoskeletal system disorders with reference to the clinical examination and diagnostic aids.	
10	Differential diagnosis of musculoskeletal system diseases.	

### 3- مقرر: جراحة عامة (جزء ثان)

اسم القسم: قسم الجراحه والتخدير والاشعه

اسم المقرر: جراحة عامة (جزء ثان)

كود المقرر SUR:4252

الفرقة: الرابعة حديث

م	الموضوعات البحثية	مواصفات
1	Surgical management of chronic inflammation in horse.	يرجى اتباع الارشادات العامة عند كتابة البحث
2	Surgical management of critical abscess in horse.	
3	Surgical management of multiple abscesses in sheep.	
4	Methods of fracture repair in large animals.	
5	Methods of fracture repair in Pet animals.	
6	Intramedullary bone pinning in dog.	
7	Types and uses of surgical plates and screw pins.	
8	Bandages and bandaging.	
9	Suture materials and its uses in veterinary practice.	
10	Commonly used suture patterns in veterinary practice.	
11	External ulcers in horse.	
12	Differential diagnosis and surgical management of a swelling in the ventral abdomen of a cattle calf.	
13	Management of chronic arthritis in horse.	
14	Management of tendinitis in horse.	
15	Surgical management of sinus and fistula in ruminants.	
16	Burns and scalds in veterinary practice.	
17	Cyst as a surgical problem in ruminant and equine.	
18	Bursa and Bursitis.	

#### 4- مقرر: امراض الذكورة وانتخاب الطلائق والاجهاض

اسم القسم: التوليد والتناسل و التلقيح الاصطناعي

اسم المقرر: الاندروولوجى - Andrology

كود المقرر: THR:4253

الفرقة: الرابعه حديث

م	الموضوعات البحثية	مواصفات
1	Functional anatomy of male genital system in Cattle- bull	يرجى اتباع الارشادات العامة عند كتابة البحث
2	Functional anatomy of male genital system in Buffalo- bull	
3	Functional anatomy of male genital system in Camel- bull	
4	Functional anatomy of male genital system in Stallion	
5	Functional anatomy of male genital system in Ram	
6	Functional anatomy of male genital system in Dog	
7	Functional anatomy of male genital system in Tom-Cat	
8	Functional anatomy of male genital system in Boar	
9	Comparative anatomy of male genital system in different animal species.	
10	Sexual behavior in cattle- bull	
11	Sexual behavior in Buffalo- bull	
12	Sexual behavior in camel- bull	
13	Sexual behavior in Stallion	
14	Sexual behavior in Ram	
15	Sexual behavior in Doh	

16	Sexual behavior in Tom - Cat	
17	Sexual behavior in Boar	
18	Measurement of sexual behavior in different animal species	
19	Factors affecting sexual behavior in different animal species	
20	Thermal regulation of the testes in different animal species	
21	Different layers of the scrotum in cattle-bull	
22	Mechanism of erection and ejaculation in cattle bull	
23	Diagnosis of lack of sexual desire in different animal species	
24	Handling and the proper treatment of a case suffering from lack of sexual desire.	
25	Hormonal regulation of the testes in cattle –bull	
26	Origin, target organ, function and clinical application of testosterone in Bull	
27	Process of spermatogenesis in cattle-bull	
28	Spermatogonial layers in cattle- bull	
29	Impotentia coeundi “Inability to copulate”	
30	Causes of impotentia coeundi	
31	Phimosis	
32	Paraphimosis	
33	Inflammation of the glanspenis “Balanitis” and prepuce “Posthitis	
34	Ruptured, Fractured or Broken Penis	
35	Abnormalities in the shape of the penis	

36	Tumors of the penis	
37	Persistent frenulum	
38	Affections of the scrotum and its contents	
39	Scrotal hernia	
40	Abnormalities and affections of neuro-musculo-skeletal system and hooves (NMS and H) i.e. locomotor system	
41	Abortion	
42	Causes of Abortion	
43	Brucellosis	
44	Campylobacteriosis	
45	Trichomoniasis	
46	Infectious bovine rhinotracheitis – IBR-IPV	
47	Post coital Bull Infertility Associated with Normal Semen	
48	Cryptorchidism	
49	Testicular aplasia	
50	Testicular Hypoplasia (Aetiology & Pathogenesis)	
51	Testicular Hypoplasia (Histopathology & Semen Picture)	
52	Testicular Hypoplasia (Diagnosis & Pronosis)	
53	Testicular Degeneration (Aetiology, Predisposing factors)	
54	Testicular Degeneration (Definition, Incidence & Pathogenesis)	
55	Testicular Degeneration (Semen Picture & Histopathology)	
56	Testicular Degeneration (Classification & Clinical symptoms)	

57	Testicular Degeneration (Diagnosis)	
58	Testicular Degeneration (Treatment & Prognosis)	
59	Orchitis	
60	Testicular Fibrosis & Calcification	
61	Testicular tumours (neoplasms)	
62	Epididymitis	
63	Aplasia of the mesonephric ducts & Spermiostasis	
64	Sperm Granulomas (Paradidymis)	
65	Spermatocele, Hydrocele & Haematocele	
66	Varicocele & Funiculitis (Scirrhou Cord)	
67	Periorchitis & Para orchitis	
68	(Seminovesiculitis) Seminal Vesiculitis	
69	Utricle of the prostate & Prostatic Hyperplasia	
70	Prostatitis	



## 5- مقرر: السموم والطب الشرعي (جزء ثان)

اسم القسم: السموم والطب الشرعي

اسم المقرر: السموم والطب الشرعي (جزء ثان)

كود المقرر: TFM:4254

الفرقة: الرابعة حديث

م	الموضوعات البحثية	مواصفات
1	Animal doping an overview	يرجى اتباع الارشادات العامة عند كتابة البحث
2	Veterinary medicines and competition animals	
3	Ethics and euthanasia	
4	Euthanasia of companion animals: A legal and ethical analysis	
5	Postmortem Changes in Animal Carcasses and Estimation of the Postmortem Interval	
6	The Post Mortem External Examination (Determination of the Cause and Manner of Death).	
7	Biochemistry Changes That Occur after Death: Potential Markers for Determining Post-Mortem Interval	
8	The Differential Diagnosis of Light-Red Livor Mortis	
9	An overview of methods used for estimation of time since death	
10	Rigor Mortis - an overview	
11	Factors determining the time course of rigor mortis	
12	Veterinary Forensic Pathology of Animal Sexual Abuse	
13	Animal Cruelty: A Review	
14	Recognizing and responding to cases of suspected animal cruelty, abuse, and neglect: what the veterinarian needs to know	
15	Nondrowning Asphyxia in Veterinary Forensic Pathology: Suffocation, Strangulation, and Mechanical Asphyxia	
16	Therapeutics of neonatal asphyxia in production animals	
17	Thermal Injuries in Veterinary Forensic Pathology	

18	How to Give First Aid to Your Dog
19	Conservative Treatment of a Scald in a Puppy
20	How to manage thermal burn wounds
21	Burns and Scalds in Dogs - Symptoms, Causes, Diagnosis ...
22	Chemical Burns in Dogs and cats
23	Firearms, Projectile and Gunshot Wounds in Animals
24	Veterinary Forensics: Firearms and Investigation of Projectile Injury
25	Management of Gunshot Wounds
26	The Clinical and Radiological Evaluation of Firearm Injuries in Dogs
27	Post-mortem diagnosis of gunshot injuries
28	Physical injuries in wild animals
29	Injuries in small animals

## 6- سلامة وتكنولوجيا منتجات الالبان

اسم القسم: سلامة وتكنولوجيا الاغذية

اسم المقرر: سلامة وتكنولوجيا منتجات الالبان

كود المقرر : MST:4255

الفرقة: الرابعة حديث

م	الموضوعات البحثية	مواصفات	ملاحظات
1	Cream	<ul style="list-style-type: none"> <li>• Write a review article <u>on one</u> of the milk products including</li> <li>• Types and Manufacture</li> <li>• Composition and Health Effects</li> <li>• Microbiology <b>and safety</b></li> <li>• Factors affecting <b>quality</b></li> <li>• Defects</li> </ul>	<p>يرجى اتباع الارشادات العامة عند كتابة البحث</p>
2	Table butter		
3	Pasteurized butter		
4	Cooking butter		
5	Soft cheese		
6	Hard cheese		
7	Processed cheese		
8	<u>Fermented milk products</u> (produced by lactics)		
9	<u>Fermented milk products</u> (produced by yeast)		
10	Milk powder		
11	Concentrated milk		
12	Ice cream		
13			
18			

## 7- مقرر: امراض الاسماك ورعايتها (الجزء الثاني)

اسم القسم:	امراض الاسماك ورعايتها
اسم المقرر:	امراض الاسماك ورعايتها (الجزء الثاني)
كود المقرر:	FDM:4256
الفرقة:	رابعه (حديث)
ملاحظات	الموضوعات البحثية
1- The chosen diseases must have been covered in the fish diseases course.	1. Differential diagnosis, prevention & control of two diseases that cause body deformities in fish.
2- You must not use any illustrations and figures provided in course lectures.	2. Differential diagnosis, prevention & control of two diseases that cause systemic fish diseases.
3- The chosen diseases must have causes of different categories i.e. parasitic, bacterial, mycotic and viral.	3. Differential diagnosis, prevention & control of two diseases that affect fish gills.
4- You have to use more sources other than course lectures.	4. Differential diagnosis, prevention & control of two diseases that affect fish skin.
	5. Differential diagnosis, prevention & control of two diseases that cause considerable economic losses among hatchery reared fish.
	6. Differential diagnosis, prevention & control of two diseases that spread in summer season.
	7. Differential diagnosis, prevention & control of two diseases that spread in winter season.
	8. Differential diagnosis, prevention & control of two stress-related fish diseases.
	9. Differential diagnosis, prevention & control of two non-stress related fish diseases.
	10. Differential diagnosis, prevention & control of two chronic debilitating fish diseases.

## 8- الامراض المعدية (جزء اول)

اسم القسم: طب الحيوان

اسم المقرر: الامراض المعدية (جزء اول)

كود المقرر : INF:4257

الفرقة: الرابعة حديث

م	الموضوعات البحثية	مواصفات
1	<b>Application of different epidemiological concepts for proper investigation and control of epizootics.</b> <ul style="list-style-type: none"> <li>• “Epidemiological triangle”,</li> <li>• Chain of infection”,</li> <li>• “Natural history of the disease”</li> <li>• “Infection cycle”</li> </ul>	<p>يرجى اتباع الارشادات العامة عند كتابة البحث</p> <p>All research papers will be reviewed by all the members of the board of Infectious Diseases, Dept. of Animal Medicine, Beni-Suef University.</p>
2	<b>Animal-environment-pathogen interaction (a model of disease causation) as a key to prevent and control of animal infectious diseases.</b> <ul style="list-style-type: none"> <li>• Host.</li> <li>• Agent.</li> <li>• Environment</li> </ul>	
3	<b>Types of epidemiological studies and creation of epidemic curves.</b> <ul style="list-style-type: none"> <li>• Observational, interventional, cross-sectional,.....</li> <li>• Common source outbreak. • Point source outbreak.</li> <li>• Propagated outbreak.</li> </ul>	
4	<b>"Case" as a potential source of infection.</b> <ul style="list-style-type: none"> <li>• Subclinical case. • Latent phase. • Primary case.</li> <li>• Index case. • Secondary case. • Suspect case.</li> </ul>	
5	<b>Factors responsible for the rapidity of buildup of a propagating epizootic.</b> <ul style="list-style-type: none"> <li>• The mode of transmission of the agent.</li> <li>• The infectivity of the agent.</li> <li>• Contagiousness</li> <li>• The free-living longevity of the agent.</li> <li>• Distance between susceptible hosts and their movements.</li> <li>• The period after which organisms are eliminated from the host.</li> <li>• The proportion of susceptible animals.</li> </ul>	

6	<b>Causes of developing an epizootic:</b> <ul style="list-style-type: none"> <li>● Introduction of a novel pathogen (or strain) to a previously unexposed population.</li> <li>● Re-growth of susceptible numbers of animals following the end of a previous epidemic.</li> </ul>	
7	<b>Pattern and frequency of disease occurrence: How to measure the prevalence of a chronic disease in an enzootic area through a year study.</b>	
8	<b>Survival of infectious agents inside and/or outside of their hosts determines the strategy for control of these pathogens.</b> <ul style="list-style-type: none"> <li>● Examples for survival of agents outside the host.</li> <li>● Examples for survival of agents inside the host.</li> <li>● Strategies of control.</li> </ul>	
9	<b>Carrier State as one of the most important problems facing the control of some animal infectious diseases.</b> <ul style="list-style-type: none"> <li>● Types of carriers.</li> <li>● Examples of temporary carriers and chronic carriers.</li> <li>● Latent infections.</li> <li>● Portals of exit of the infections agents from carriers.</li> <li>● Difficulties of control of these diseases.</li> </ul>	
10	<b>A mode of transmission is necessary to bridge the gap between the portal of exit from the reservoir and the portal of entry into the host.</b> <ul style="list-style-type: none"> <li>● Direct transmission.</li> <li>● Indirect transmission.</li> </ul>	
11	<b>The iceberg phenomenon as a model describes a situation in which a large percentage of the problem is hidden from view.</b> <ul style="list-style-type: none"> <li>● Diseases with vast submerged portion of the iceberg.</li> <li>● Causes of hidden portions.</li> <li>● Diseases with prominent floating tip of the iceberg.</li> </ul>	
12	<b>The uses of "basic reproductive number" <math>R_0</math> and the "Effective Reproductive Rate" (R) to explain the potential for transmission and disease spread.</b> <ul style="list-style-type: none"> <li>● Definition.</li> <li>● Factors affecting <math>R_0</math>.</li> <li>● Reducing of <math>R_0</math>.</li> </ul>	
13	<b>Intensive calf unit system as a leading cause of buildup of enteric and respiratory infections: The practice of collecting</b>	

	<b>newborn calves from multiple sources and transporting them from farms to sales yard (calf-open unit system) contributes to the process of buildup of infection and high mortality.</b>	
<b>14</b>	<b>Health of the newborn animal is a matter of balance involving different aspects.</b> <ul style="list-style-type: none"> <li>● Immunological factor.</li> <li>● Nutritional factor.</li> <li>● Environmental factor.</li> <li>● Management factor.</li> <li>● Microbial factor.</li> </ul>	
<b>15</b>	<b>Development of an effective control program for prevention of calf scouring in dairy farms.</b> <ul style="list-style-type: none"> <li>● Reduction of exposure of newborn calves to infectious agents.</li> <li>● Rising of the non-specific resistance.</li> <li>● Increase of specific resistance of the newborn calf.</li> </ul>	
<b>16</b>	<b>Different factors affecting the immunity of newborn calves against the enteric and respiratory pathogens.</b> <ul style="list-style-type: none"> <li>● Calves are more susceptible and liable to infection than adults.</li> <li>● Newborn calf at birth faces many important problems.</li> <li>● Immunological aspect.</li> <li>● Nutritional aspect.</li> <li>● Management.</li> </ul>	
<b>17</b>	<b>It is unwise to follow a single line of approach in investigating pneumonia in calves.</b> <ul style="list-style-type: none"> <li>● Multifactorial nature.</li> <li>● Undifferentiated pneumonia with different etiological agents.</li> <li>● Epidemiological aspect and management aspect as a predisposing cause.</li> </ul>	
<b>18</b>	<b>Viral–Bacterial Synergy as a cause of "Bovine Respiratory Disease" in fattening calves.</b> <ul style="list-style-type: none"> <li>● A complex etiology with many pathogens implicated.</li> <li>● A complex of biochemical, physiological and immunological defense mechanisms.</li> <li>● Role of stress.</li> <li>● Purchased calves reception.</li> </ul>	
<b>19</b>	<b>Immunity of the gastrointestinal tract.</b>	

	<ul style="list-style-type: none"><li>● Role of lymphoid tissues of the submucosa of the digestive tract.</li><li>● Role of the highly specialized epithelial cells (M cells) covering the Peyer's patches.</li><li>● Role of IgA.</li></ul>	
20	<b>Immunity of the respiratory tract.</b> <ul style="list-style-type: none"><li>● Lymphoid tissues and lymphocytes.</li><li>● Immunoglobulins.</li><li>● Respiratory mucociliary clearance mechanism.</li></ul>	



## 9- مقرر : المخلفات الحيوانية

اسم القسم: سلامة وتكنولوجيا الاغذية

اسم المقرر: المخلفات الحيوانية

كود المقرر: MST:4258

الفرقة: الرابعة

الموضوعات البحثية	ملاحظات
1. Requirements of poultry slaughterhouses	
2. Technical process of poultry slaughtering	
3. Poultry meat inspection	
4. Public health hazards of poultry meat	
5. Bacterial diseases in poultry meat with judgement	
6. Viral diseases in poultry meat with judgement	
7. General pathological conditions in poultry meat	
8. Technical faults in poultry processing	
9. Chemical composition of fish meat	
10. Postmortem changes in fish	
11. Quality assessment of fish	
12. Biological hazards in fish	
13. Chemical hazards in fish	
14. Antimicrobial residues in meat	
15. Hormonal residues in meat	
16. Heavy metal residues in meat	
17. Detection methods of chemical residues in meat	
18. Control and prevention of chemical residues	
19. Environmental pollutants in meat	
20. Categories and risks of animal byproducts	
21. Edible animal byproducts	
22. Inedible animal byproducts	
23. Benefits of animal byproduct processing	

يرجى اتباع الارشادات العامة عند كتابة البحث



24. Pharmaceutical uses of animal byproducts

25. Significance of hides and skin

## ارشادات عامة

### Guidelines for writing an essay/research

- 1- An individual **student or 3-5 students** can share one essay/research.
- 2- The essay/research should include a cover page containing the ID number (s) of the participant (s), **year (1<sup>st</sup> حديث), article topic, and e-mail** of the corresponding participant for contact.
- 3- **Write 5-10 pages excluding cover page**
- 4- **Student** must submit essay/research in WORD format or PDF files, Font size 14, line spacing 1.5, Times New Roman style or Arial with normal margins (2.5 cm/1 inch on each side of the paper).
- 5- The essay/research consists of 4 main parts: **introduction, body, conclusion and References.**
- 6- **Support your article with illustrations and figures when possible.**
- 7- **Organize** the essay so that it covers a set list of subtopics that each supports your main topic.
- 8- **Include** a reference list at the end of the essay/research arranged alphabetically.

يختار الطالب احد الموضوعات السابقة لكتابة مقالة بحثية من 5-10 صفحات بالمواصفات التالية:

- 1- يكتب الطالب علي الغلاف كافة البيانات (الرقم القومي وعنوان البحث و الفرقة و المادة )
- 2- يكتب الطالب مقدمة introduction في موضوع البحث لا تزيد عن صفحة واحدة و يتناول فيها الطالب اهمية موضوع البحث ( تقديم وتحضير القارئ لفكرة بحثك - استعراض فكرة بحثك، أو وجهة نظرك - استعراض الطريقة أو الأفكار التي من خلالها ستنثبت وجهة نظرك).
- 3- **المتن أو المحتوى** : وهو القسم الرئيسي من أي بحث، ويمثل جوهر الموضوع لأنه يحوي القسم الأكبر من المعلومات (يقسم الطالب البحث الي عدة عناصر كما تم دراسته مدعما شرحه بالصور والرسومات كلما امكن).
- 4- يختم الطالب البحث بخلاصة conclusion في نصف صفحة

5- و اخيرا يذكر الطالب اسماء المراجع References التى اقتبس منها و اعتمد عليها في اعداد البحث

- **AVOID PLAGIARISM IN YOUR ARTICLE: I.E. AVOID COPY AND PASTE FROM INTERNET/ANY SOURCE OR FROM YOUR CLASSMATES' ARTICLES.**

• هام جدا : يتم كتابة البحث على النموذج المرفق لكل فرقة

مصادر معلومات مقترحة لإعداد البحوث العلمية

Distance learning solutions / UNESCO

<https://en.unesco.org/covid19/educationresponse/solutions>

بنك المعرفة المصري

<https://www.ekb.eg/ar/home>

المكتبة الرقمية العالمية

<https://www.wdl.org/ar>

ذاكرة مصر المعاصرة

<http://modernegypt.bibalex.org/>

المجموعات العربية عمى الانترنت

<http://dlib.nyu.edu/aco>

الوارق

<http://www.alwaraq.net>

مكتبة الشرق الأوسط العربية

<https://dlme.clir.org>

أرشيف المجلات الأدبية والثقافية العربية

<http://archive.sakhrit.co>

مركز المعرفة الرقمي

<https://ddl.ae>

الموسوعة العربية العالمية

<http://www.mawsoah.net>

<https://www.marefa.org/> موسوعة المعرفة



جامعة بني سويف  
كلية الطب البيطري  
وكيل الكلية شئون التعليم والطلاب

