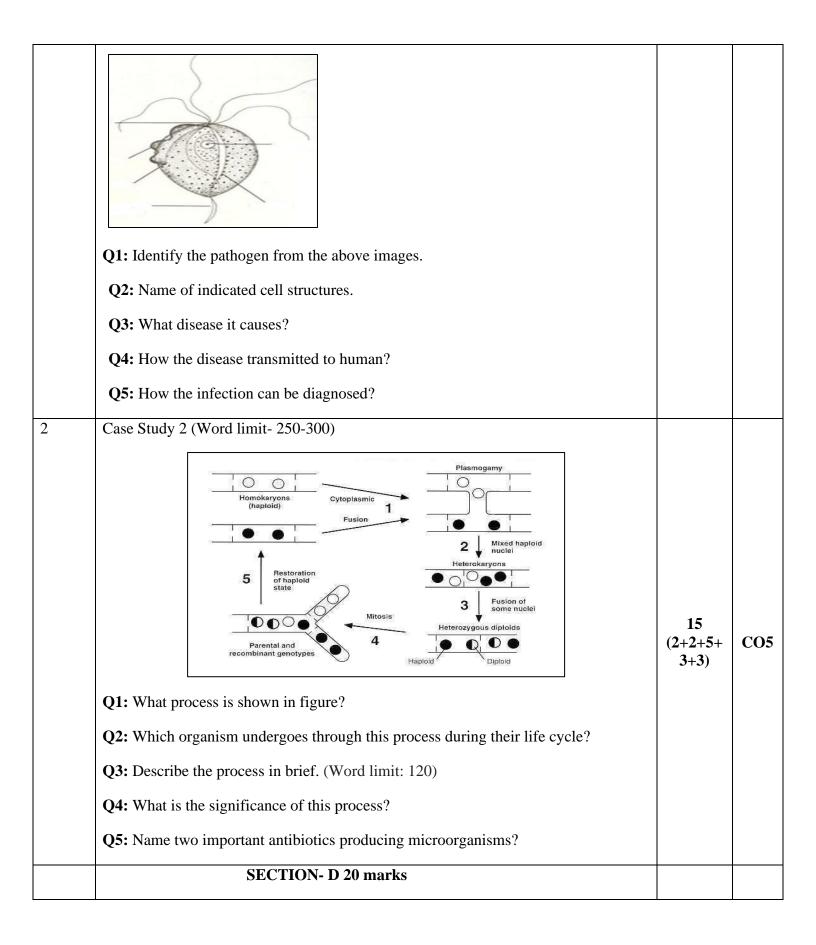
Name:		WPES			
Enrolment No:					
	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES				
Course:	Fungi, Algae and Protista	r Examination, May 2021 Semest	ter: III		
Program	n: B.Sc. Microbiology		ne: 03 hrs.		
Course	Code: HSMB2001	Max. N	Marks: 100		
Instruct	ions: Read question carefully.				
		SECTION A			
S. No.	MCQ's /Fill in the blanks/ T&F (1.5 mark	ks each)	30 Marks	СО	
1	Vector for Leishmaniasis is				
	A. Tick				
	B. Mite		1.5	CO3	
	C. Sand fly				
	D. Tsetse fly				
2	Fungi producing mycelium are called as_				
	A. Moulds				
	B. Filamentous fungi		1.5	CO2	
	C. Both a and b				
	D. Yeasts				
3	Phycomycetes are belongs to				
	A. Sac fungi				
	B. Lower fungi		1.5	CO2	
	C. Club fungi				
	D. Imperfect fungi				
4	The strain of fungi used for the large-scal	e production of penicillin is			
	A. Penicillium chrysogenum				
	B. P. notatum		1.5	CO4	
	C. Streptomyces Aurecus				
	D. Saccharomyces sps				

5	The study of algae is known as		
	A. Algalogy		
	B. Phycology	1.5	CO4
	C. Mycology		
	D. Bacteriology		
6	In <i>Mucor</i> , asexual reproduction takes place by		
	A. Spores		
	B. Zygopore	1.5	CO4
	C. Motile zoosporess		
	D. Zoogametes		
7	In lichens, sexual reproduction belongs to		
	A. Either fungal partner or Algal partner (not both)		
	B. Fungal partner and Algal partner (both)	1.5	CO2
	C. Fungal partner only		
	D. Algal partner only		
8	Yeast producesenzyme complex that is responsible for fermentation.		
	A. Invertase		
	B. Aldolase	1.5	CO4
	C. Zymase		
	D. Dehydrogenase		
9	Heterokaryosis process was discovered by	1.5	CO5
10	Which statements is wrong about lichens?		
	A. They grow rapidly about 2 cm per day		
	B. They have symbiotic relationship between alga and fungus	1.5	CO3
	C. Lichens are indicators of pollution		
	D. Some species are eaten by reindeers		
11	Pseudomycelium is formed in		
	A. Yeast		
	B. Aspergillus	1.5	CO4
	C. Synchytrium		
	D. Rhizophora		

	A. Bacteria, fungi, algae and Bryophyta		
	B. Protozoa, algae and fungi	1.5	CO4
	C. Vascular plants, slime moulds, and fungi	1.5	0.04
	D. Bacteria, algae, protozoa, and Bryophyta		
13	Which class does the malarial parasite belong to?		
	A. Dinophyceae		
	B. Sarcodina	1.5	CO1
	C. Ciliata		
	D. Sporozoa		
14	Protozoa are classified based on		
	A. Locomotory organelle		
	B. Shape	1.5	CO1
	C. Number of nuclei		
	D. Size		
15	Which of the following amoeba does not live in large intestine?		
	A. Entamoeba coli		
	B. Entamoeba histolytica	1.5	CO1
	C. Endolimax nana		
	D. Entamoeba gingivalis		
16	Organ of defense in protozoans is		
	A. Statocysts		
	B. Trichocysts	1.5	CO1
	C. Otocysts		
	D. Nematocysts		
17	The largest protozoa is –		
	A. Balantidium coli		
	B. Entamoeba coli	1.5	CO1
	C. Trichomonus vaginalis		
	D. Toxoplasma gondii		

		15 (2+2+2+ 3+2+4+1)	C01
1	Case Study 1 (Word limit-250-300)	Marks	СО
Q	SECTION C 30 marks Two case studies 15 marks each subsection	30	66
4	Write down signs and symptoms of Malaria. Name three drugs, used to treat Malaria.	5 (2+3)	C01
3	Write down the implication of parasexuality in fungal strain development. Write down signs and symptoms of Malaria.	5	CO1
2	Write a note on mode of reproduction in Lichens.	5	CO3
1	Write down the life cycle of <i>Leishmania donovani</i> through schematic diagram.	5	CO2
Q 1	Short Answer Type Question (5 marks each) Scan and Upload 4 questions 5 marks. Word limit (100-120)	20 Marks	СО
	SECTION B (5 marks each question)		
	D. Growth		
	C. Spore formation		
	B. Reproduction	1.5	CO3
	A. Metabolism		
20	In diatoms, auxospores helps in		
	D. None of these		
	C. Johnsen & Hans		
	B. Pasteur	1.5	CO1
	A. Antony von		
19	Compound microscope was discovered by		
	D. All of these e. None of these		
	C. Motility of the organism	1.5	COI
	B. Characteristic arrangement or grouping of cells	1.5	CO1
	A. Size and shape of individual organisms		



Q	Long Answer type Questions Scan and Upload (10 marks each) Word limit 200-250	20 Marks	СО
1	Q1: Identify the organisms from above image in figure? Q2: Describe their cell structure in brief? (word limit: 140) Q3: Mention their mode of nutrition. Q4: Mention their motility process?		CO4
2	Incubate for 48 hours Lincubate for 48 hours Lincuba	10 (2+4+2+ 2)	CO3

Q1 : What methods are described in the flow diagram?	
Q2: Define the term (with examples): Axenic, Monoxenic and Polyxenic.	
Q3: Name of the medium used for the in-vitro cultivation of Leishmania sp. is	
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Q4: Which organism cultured by this method?	