





# DMLT/DMRT EXAMINATION BOARD, ODISHA FIRST YEAR D.M.L.T. ANNUAL Examination - 2024 (2022 Adv. Batch)

(2022 Admission Batch)

QUESTIONS (PAPER-II)

Time: 3 Hours

Full Marks: 100

Answer all questions

(USE SEPARATE ANSWER BOOK FOR SECTION-A, B & C)

SECTION-A (Community Medicine & Statistics - 40 marks)

1.	Write	Short	Notes	on	(Anv	five	
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 $(5 \times 5 = 25 \text{ marks})$ 

- Diseases transmitted by Rodents
- b. Water purification
- Mosquito borne diseases
- Food Fortification
- Health hazards of Air pollution

#### 2. Fill in the blanks

 $(2 \times 5 = 10 \text{ marks})$ 

- are diseases transmitted by Aedes mosquitoes.
- b. slabbios & Scalfy are the diseases transmitted by ticks.
- c. Vitamins \_\_\_\_\_\_ & \_\_\_\_\_ have anti oxidant properties.
- are water soluble vitamins.
- e. Occupational cancer is common in CORVOCK & PROOFF organs of the body.
- 3. Write briefly on i ) Line diagram ii ) Histogram iii ) Pie diagram (1+2+2=5)

#### SECTION- B ( COMPUTER -20 marks )

1. Write short notes on (Any two)

 $(5 \times 2 = 10)$ 

- a. Computer networking
- c. Use of computer in pathology laboratory

(2 x 5 = 10 m	arks)
2. Fill in the blanks  Common Basic Operating Language / Common	n
Rusiness Oriented Language )	
bkey is used for opening help. (F1 / F2 )	
c. The fourth generation computers used electronic component. ( Tran / Microprocessors )	sistors
dis not a search engine.(Yahoo / Safari ).	5
eis the shortcut key to open a ' New Blank ' document in MS- Word	81
(CTRL+M/CTRL+N)	8
SECTION-C (Pharmacology - 40 marks)	9
1. Write short notes : (Any Five )	arks)
a. Advantages & Disadvantages of Oral route of drug administration	
b. Adverse drug reactions of Penicillin	
c. Excretion of drugs	
d. Anti-coagulants	
e. Anti viral drugs	
f. Generic medicines	
2. Fill in the blanks - (1x5=5)	marks)
a. Omeprazole is used to treat —————. ( Peptic_ulcer / Parkinsonism )	
b. Metoprolol is used to treat ( Hypertension / Bronchial asthma )	
c. Drug used to treat bronchial asthma is ———————( Salbutamol / Propranolo	1).
d. Insulin is usually administered by ————— route. ( Subcutaneous / Intra	dermal)
e. HAART is used to treat ———— (AIDS / SARS )	
(1 x 5 =	5 marks)
Write true (1) or laise (1)	m
a. Metronidazole is used in the b.  b. Action of one drug facilitated or increased by another drug is known as antagonis	
(True/ False)  c. Nitroglycerin is used in the treatment of hypertension .(True/ False)	
c. Nitroglycerin is used in the troe  d. Chloroquine is used for radical cure of malaria. (True/ False)  following sublingual route of drug administration.(True/ False)	
d. Chloroquine is used for radical design of the control of the co	rue/False)
d. Chloroquine is used for radical cure.  (To a see a following sublingual route of drug administration.)  (To a see a following sublingual route of drug administration.)	E
AND DESCRIPTION OF THE PARTY OF	MATERIAL PROPERTY.
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## DMLT/DMRT EXAMINATION BOARD, ODISHA FIRST YEAR D.M.L.T. AMINATION-2024 FIRST YEAR D.M.L.T. ANNUAL EXAMINATION-2024 (2022) (2022 Admission Batch)

## QUESTIONS (PATHOLOGY, PAPER-III)

(LABORATORY WARES, INSTRUMENTS, SAFETY, CLINICAL HAEMATOLOGY)

Time- 3 Hours

FULL MARKS: 60

## Answer all questions

1. Answer any TWO:

 $(15 \times 2 = 30)$ 

- a. Describe the peripheral blood smear preparations under the headings of (i) Blood sample collection ( ii ) Anticoagulants used ( iii ) Smearing ( iv ) Leishman stain-(3+3+3+6=15)ing .
- b. Name the different methods of Hemoglobin estimation. Write down the (i) Principles (ii) Advantages & (iii) Disadvantages of Sahali's method of Hemoglobin es-(3+4+4+4=15)timation.
- c. Describe urine examinations under the headings of (i) Collection of urine samples (ii) Different chemical tests for detection of Glucose & Protein in urine.

(3+6+6=15)

2. Write short notes on any FIVE:

 $(4 \times 5 = 20)$ 

- a. Burettes & Pipettes
- b. Reticulocyte count
- c. Bleeding time & Clotting time
- d. Safety precautions for avoiding laboratory accidents
- e. Sickling test
- f. ESR estimation by Westergren's method

e acidic dye in Romanowsky stain is  e name of the anticoagulant present in purple top vacutainer tube is  (Heparin / EDTA)  test used to detect bile salt in urine is  (Hay's test / Fouchet's)  anticoagulant of choice for coagulation studies is (Sodium ride / 3.2% Tri sodium citrate).
test used to detect bile salt in urine is (Hay's test / Fouchet's anticoagulant of choice for coagulation studies is (Sodium ride / 3.2% Tri sodium citrate).
ride / 3.2% Tri sodium citrate).
pophilia is disease (Y. link.)
nophilia isdisease.( X- linked dominant / X- linked recessive )
юрии

- a. Bence Jones protein
- b. Benzidine test
- c. Wintrobe's tube
- d. LP needle
- e. Ketone bodies

- 1. Acetoacetic acid &
- 2. PCV C
- 3. CSF d
- 4. Occult blood in urine b
- 5. Multiple myeloma

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## DMLT/DMRT EXAMINATION BOARD, ODISHA FIRST YEAR DMLT ANNUAL EXAMINATION-2024 (2022 Admission Batch)

QUESTIONS (MICROBIOLOGY; PAPER-IV)

(GENERAL & SYSTEMIC BACTERIOLOGY, CLINICAL MICROBIOLOGY)

Time- 3Hours

**FULL MARKS: 60** 

#### **ANSWER ALL QUESTIONS**

1. Answer any Two

(15 X 2 = 30)

- a. Classify the bacteria depending on their shapes; Write briefly about the (i) Bacterial cell wall ( ii ) Flagella ( iii ) Fimbriae & ( iv ) Bacterial spores. (3+3+3+3+3=15)
- b. Classify the different culture media used in Microbiology Laboratory & give examples of each. Write in details about the (i) Blood agar & (ii) Transport media.

(5+5+5=15)

- c. Define Sterilisation & Disinection. Enumerate the (i) Physical agents & (i) chemical agents of Sterilization. (5+5+5=15)
- 2. Write short Notes on any five

 $(3 \times 5 = 15)$ 

- Lawn or Carpet culture i)
- Hot air oven ii)
- Gram stain iii)

vi)

- Acid Fast stain iv)
- Normal Bacterial flora of human body v)
- Nosocomial ( Hospital acquired) infections

#### 3. Match the following:

(1 X 5 = 5)

i) Differential stain

a) Indian ink

ii) Simple stain

b) Stain to detect bacterial granules

iii) Negative stain

c) Stain to detect spirochetes & bacterial flagella

iv) Albert stain

d) Methylene blue

v) Silver stain

e) Acid fast stain

#### 4. Answer the following

(2 X 5 = 10)

- i) Examples of two spore forming bacteria.
- ii) Examples of two phases of the growth curve of the bacteria.
- iii) Examples of two types of microscopes used in microbiology laboratory.
- iv) Examples of two types of filters used to remove bacteria for water purification.
- v) Examples of two Gram negative bacteria.



# DMLT/DMRT EXAMINATION BOARD, ODISHA

FIRST YEAR D.M.L.T. ANNUAL Examination - 2024 (2022 Admission Batch)

## OUESTIONS (BIOCHEMISTRY DAD

	QUESTIONS (BIOCHEMISTRY, PA	PER-V)
TIME: 3Hours		
	Answer all questions	FULL MARKS: 60
1. Write Short No		
STATE SHOPE INC	SIES . (ANY TEN)	(4 x 10 = 40 )
a Biotin		
b Buffers ·		
C Functions o	of proteins in our body .	
a. Indicators .		
e. Difference	between Starch & Glycogen	
Scurvy .		
h. Isoenzymes	mino Acids	
↓ Functions o	of Calcium	
j. Iron deficie	MCV anemia :	
& Coenzyme	, and the	
FILL IN THE BLA		
2) FILL IN THE BLA	ANKS	(1 X 10 = 10 )
a	is known as good cholesterol. ( LDL, HDL )	(1710-10)
h Bila iui - i	as good cholesterol. ( LDL, HDL )	
b. Bile juice is	in nature. ( Acidic , Alkaline )	
С.	is an aromatic amino acid. ( Phenylalanine, Argi	nine)
d. As per WHC	O recommendations facting places	
should be	. (70-100mg/dl, 80-120mg/dl)	normal healthy adult
e. Vitamin	deficiency causes pellegra. ( Riboflavin,	
f Vitamin D.d	Reference causes pellegra. ( Riboflavin,	Niacin)
f. Vitamin D d	leficiency causesin adults. ( Rickets, C	Osteomalacia )
g	enzyme is elevated in acute pancreatitis ( Enolase	Lipase)
h. The end pro	oduct of catabolism is uric acid. ( Puri	no Burimidia
i	pyrimidine base is present in both DNA & RNA. ( C	ne, rymmaine )
i The protein	nart of an enzyme is called	ytosine, Uracil )
j. The protein	part of an enzyme is called (Apo enzy	/me, Co enzyme)
3. Write True (T)	or False (F)	$(2 \times 5 = 10)$
a. Bile salts are	e important for digestion of lipids. ¬	
b. Maltose con	ntains two glucose residues. * non reducing sugar. *	
d. Glucagon de	ecreases blood sugar levels.	
e. Vitamin D ha	as antioxidant properties. F	