

M.Sc. Sem.-1 Examination

403

CE & ART

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

Q.1A	Name the consumable used in iui lab and mention their usage in lab	7
Q.1B	difference between traditional swim up and conventional swim up and write down the technique with diagram	7
	OR	
Q.1A	Name the sperm preparation techniques and explain the principles of each method	7
Q.1B	Brief note on : Andrology safety guidelines	7
Q.2 A	Name the 3 types of vitality testing and write down the host technique with diagram and principle	7
Q.2 B	Write down the principle of density gradient technique explain it with diagram	7
	OR	
Q.2 A	Write down the suboptimal conditions for semen collection and note on how to collect semen sample	7
Q.2 B	What is progressive and non progressive motility write down who parameters for normal semen sample and explain the motility	7
Q.3 A	What is sdf? Write down the sperm chromatin packaging with diagram	7
Q.3 B	Write down difference between medium halo and no halo nd mention the procedure for scd	7
	OR	
Q.3 A	What are the intrinsic and extrinsic factors for sdf and role of sdf in art outcome	7
Q.3 B	Write a note on comet assay	7
Q.4 A	What is pyospermia explain the method to observe that	7
Q.4 B	What are leukocytes? Write the various types of it and mention the reason for excessive leukocytes in semen and their effects on ART outcome	7
	OR	
Q.4 A	Explain CASA	7
Q.4 B	Write down macroscopic analysis of semen	7
Q.5	Answer the Following Short Questions (Any 7)	14
1	What is OAT? Write down the parameters for same	
2	What is retrograde ejaculation and how to collect that semen sample and process it for ICSI?	
3	3 criteria required for donor semen sample	
4	Explain the use of pentoxifylline in art lab	
5	What is difference between swim up method and density gradient method	
6	How to process OAT semen in lab?	
7	What are the indications of IUI?	
8	Write down fructose reactions with semen	
9	What are the drugs used in IUI	
10	What is ros and its role in infertility	
11	What precautionary actions should be taken by clinic to protect lab personnel from HBV?	
12	Name 3 tail defect explain it with diagram?	