

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name : Clinical Pathology- Theory

Subject Code : 3SC01CLP1

Branch: PGDMLT

Semester: 1

Date: 30/04/2022

Time: 11:00 To 02:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions :

(14)

- a) Mention main three process which occur in kidney during the passage of urine formation.
- b) Physical examination of urine includes which five parameters ?
- c) Give name of any five methods of urine collection.
- d) What is fixed specific gravity of urine ? Name conditions showing fixed specific gravity of urine.
- e) Which are the types of jaundice according to etiology.
- f) How to differentiate presence of phosphate and protein in the urine by heat and acetic acid test ?
- g) Draw a normal morphological diagram of sperm.
- h) What is the normal sperm count in semen ?
- i) What is the use of Blue bag in biomedical waste management.
- j) What is the normal range of ADA(Adenosine deaminase) ?
- k) Red coloured pleural fluid seen in which conditions ?
- l) You have a used needle and syringe in your hand. Where will you discard its plastic packet, needle and syringe ? (Give specific colour of the bag)
- m) What is sensitivity and specificity of any test ?
- n) Fruity odour of urine seen in which condition ?

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

(14)

- a) Which test used for bile salt in urine ? Give its principle, procedure and result interpretation. (8)
- b) Draw and name any six crystals seen in urine microscopic examination. (6)

Q-3 Attempt all questions

(14)

- a) Benedict test: principle, indication, procedure and interpretation. (8)
- b) What is polyuria, oliguria and anuria? (6)

Q-4 Attempt all questions

(14)

- a) Give any three abnormal colour of stool and its conditions. (6)
- b) Draw and name four protozoa seen in stool microscopic examination. (8)



- Q-5 Attempt all questions (14)**
- a) Indication of lumbar puncture. (5)
 - b) Contraindication of lumbar puncture (5)
 - c) Complications of lumbar puncture. (4)
- Q-6 Attempt all questions (14)**
- a) Mention difference between transudate and exudate. (7)
 - b) Draw microscopic picture and give names of gram-positive cocci, gram positive bacilli and acid-fast bacilli. (7)
- Q-7 Attempt all questions (14)**
- a) Describe quality control in clinical pathology. (7)
 - b) Name different parameters which can be measured by urine strip test. (7)
- Q-8 Attempt all questions (14)**
- a) Give brief information about physical and chemical examination of sputum. (5)
 - b) Describe procedure of ZN stain. (5)
 - c) What is modified ZN stain (Fite faraco stain)? Give indication of doing this stain. (4)

