

**NHM Kollam – Selection cum Screening test for Lab Technicians– 28/04/2017**

**Candidate No:** \_\_\_\_\_

**Invigilator's Signature:** \_\_\_\_\_

1. The concentration of sulphuric acid used for Zeil Neelsen staining
  - a) 1%
  - b) 20%
  - c) 5%
  - d) 100%Answer: \_\_\_\_\_
2. The fluorescent dye used for staining acid fast bacilli
  - a) Auramine-O
  - b) Concentrated carbol fuschin
  - c) Methylene blue
  - d) Diluted carbol fuschinAnswer: \_\_\_\_\_
3. The resolution of oil immersion microscope
  - a) 10x
  - b) 100x
  - c) 1000x
  - d) 500xAnswer: \_\_\_\_\_
4. Method of sterilization using dry heat
  - a) Pasteurization
  - b) Autoclave
  - c) Hot air oven
  - d) TyndalizationAnswer: \_\_\_\_\_
5. The blood level of which electrolyte is affected most in hemolytic conditions
  - a) Na<sup>+</sup>
  - b) K<sup>+</sup>
  - c) Ca<sup>++</sup>
  - d) HCO<sub>3</sub><sup>-</sup>Answer: \_\_\_\_\_
6. Risk of transmission of HIV following needle prick injury
  - a) 100 %
  - b) 50 %
  - c) 1 %
  - d) 0.03%Answer: \_\_\_\_\_
7. Disinfection of tubercle bacilli is by
  - a) Phenol
  - b) Sulphuric acid
  - c) Formalin
  - d) SpiritAnswer: \_\_\_\_\_
8. Direct Coombs test (Direct Antiglobulin test ) is done in
  - a) Transfusion Reactions
  - b) Haemolytic diseases of newborn
  - c) Both of these
  - d) None of theseAnswer: \_\_\_\_\_
9. RPR test is used to detect
  - a) Malaria
  - b) Syphilis
  - c) Typhoid fever
  - d) Typhus feverAnswer: \_\_\_\_\_
10. Mantoux test is an immunological test commonly done to detect
  - a) Mycobacterium leprae
  - b) Mycobacterium ulcerans
  - c) Mycobacterium xenopi
  - d) Mycobacterium tuberculosisAnswer: \_\_\_\_\_

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11. Oil used for oil immersion microscope  
a) Coconut oil  
b) Cedar wood oil  
c) Palm oil  
d) Olive oil  
Answer: \_\_\_\_\_
12. Following tests are used in detection of HIV **Except**  
a) ELISA test  
b) Western Blot  
c) Dry Blood Spot Test  
d) RIBA  
Answer: \_\_\_\_\_
13. DOTS is associated with  
a) HIV  
b) Tuberculosis  
c) Leprosy  
d) Syphilis  
Answer: \_\_\_\_\_
14. All are Romanovsky stains except  
a) Wright stain  
b) Leishmann stain  
c) Giemsa stain  
d) Toluidine blue  
Answer: \_\_\_\_\_
15. Which among the following is haemoglobin estimation method  
a) Wintrobe's method  
b) Sahli's method  
c) Westergren's method  
d) Microhematocrit method  
Answer: \_\_\_\_\_
16. Hemoglobin is decreased in all except  
a) Iron deficiency anemia  
b) Aplastic anemia  
c) Polycythemia  
d) Leukemia  
Answer: \_\_\_\_\_
17. ESR is found to be increased in all except  
a) Sickle cell anemia  
b) Multiple myeloma  
c) Tuberculosis  
d) Carcinoma breast  
Answer: \_\_\_\_\_
18. PCV is decreased in all except  
a) Polycythemia  
b) Leukemia  
c) Pregnancy  
d) Haemolytic anemia  
Answer: \_\_\_\_\_
19. Diluting fluid for WBC count  
a) Turks fluid  
b) Hayem's fluid  
c) Rees-Eckers fluid  
d) Hingle Mann's fluid  
Answer: \_\_\_\_\_
20. Weil-Felix test is used in  
a) Typhus fever  
b) Tuberculosis  
c) HIV  
d) Typhoid fever  
Answer: \_\_\_\_\_

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21. Diseases spread by Culex mosquito
- a) Japanese Encephalitis
  - b) Malaria
  - c) Dengue
  - d) Chikungunya

Answer: \_\_\_\_\_

26. Life span of normal RBC
- a) 90 days
  - b) 120 days
  - c) 60 days
  - d) 30 days

Answer: \_\_\_\_\_

22. Blood spills are ideally cleaned with
- a) Methanol
  - b) Phenol
  - c) Formalin
  - d) 1% sodium hypochlorite

Answer: \_\_\_\_\_

27. 'Good cholesterol' is
- a) LDL
  - b) VLDL
  - c) HDL
  - d) Triglycerides

Answer: \_\_\_\_\_

23. One nanogram =

- a)  $10^{-6}$  g
- b)  $10^{-3}$  g
- c)  $10^{-9}$  g
- d)  $10^{-12}$  g

Answer: \_\_\_\_\_

28. Banana shaped gametocyte in peripheral smear is typically seen in

- a) Plasmodium Vivax
- b) Plasmodium Falciparum
- c) Plasmodium Malariae
- d) Plasmodium Ovale

Answer: \_\_\_\_\_

24. Acyclovir is used to treat

- a) Viral Infections
- b) Bacterial infections
- c) Fungal infections
- d) Helminthial infestation

Answer: \_\_\_\_\_

29. Anticoagulant used in blood collection bags

- a) EDTA
- b) Sodium Citrate
- c) Sodium Fluoride
- d) Heparin

Answer: \_\_\_\_\_

25. The presence of ketosis can be established by the presence of ketone bodies in urine by

- a) Rothera's test
- b) Indole test
- c) Catalase test
- d) Oxidase test

Answer: \_\_\_\_\_

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30. Universal precautions or standard precautions are to be followed
- a) When working with HIV positive samples
  - b) When working with all samples
  - c) When working with Tuberculosis patients
  - d) When working with hepatitis patients

Answer: \_\_\_\_\_

31. Who wrote the book “Discovery of India”

- a) Jawaharlal Nehru
- b) Mohandas Karamchand Gandhi
- c) Rabindranath Tagore
- d) Raja Ram Mohan Roy

Answer: \_\_\_\_\_

32. Who won the Best Actress award in the Kerala State Film awards 2016

- (a) Rajisha Vijayan
- (b) Jomol
- (c) Manju Warriar
- (d) Bhavana

Answer: \_\_\_\_\_

33. Instrument used to measure Blood pressure

- (a) Barometer
- (b) Tonometer
- (c) Sphygmomanometer
- (d) Audiometer

Answer: \_\_\_\_\_

34. Commonly used skin disinfectant

- a) Methyl alcohol
- b) Ethyl alcohol
- c) Isopropyl alcohol
- d) Gluteraldehyde

Answer: \_\_\_\_\_

35. Who is the present Minister for Agriculture in Kerala

- (a) Smt K.K.Shylaja
- (b) Smt J. Mercikuttu Amma
- (c) Shri VS Sunilkumar
- (d) Shri G Sudhakaran

Answer: \_\_\_\_\_

36. Vishwanathan Anand is related to which field

- (a) Cycling
- (b) Chess
- (c) Carrom
- (d) Canoeing

Answer: \_\_\_\_\_

37. Largest WBC

- a) Neutrophil
- b) Basophil
- c) Eosinophil
- d) Monocyte

Answer: \_\_\_\_\_

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38. Which of the following is not a Red Blood Cell Indices

- a) MCV
- b) MCH
- c) MCP
- d) MCHC

Answer: \_\_\_\_\_

42. Ehrlich test is used to detect

- a) Urine Albumin
- b) Urine ketones
- c) Urobiliniinogen
- d) Urine Bilirubin

Answer: \_\_\_\_\_

39. An example of Blood Parasite

- a) Entamoeba
- b) Giardia
- c) Taenia
- d) Plasmodium

Answer: \_\_\_\_\_

43. Heparin is a

- a) Amino acid
- b) Glycosaminoglycan polymer
- c) Vitamin
- d) Enzyme

Answer: \_\_\_\_\_

40. Hormone detected in Urine Pregnancy test

- a) Insulin
- b) FSH
- c) LH
- d) HCG

Answer: \_\_\_\_\_

44. Alkali burns on skin can be treated with

- a) Sodium bicarbonate
- b) Hot Water
- c) Cold Water
- d) 1% Acetic acid

Answer: \_\_\_\_\_

41. Pentavalent vaccine given to infants gives protection against

- a) Hepatitis B
- b) Measles
- c) Rubella
- d) Tuberculosis

Answer: \_\_\_\_\_

45. \_\_\_\_\_ is used for diagnosis of syphilis

- a) Light Microscope
- b) Electron Microscope
- c) Dark field microscope
- d) Ultraviolet microscope

Answer: \_\_\_\_\_

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46. How much water should we add to 500ml of a solution of 10% of NAOH to bring it to 7.5% concentration?
- a) 250 ml
  - b) 500 ml
  - c) 166 ml
  - d) 333 ml

Answer: \_\_\_\_\_

50. Urea is final product of catabolism of
- a) Polysaccharide
  - b) Protein
  - c) Triglyceride
  - d) Cholesterol

Answer: \_\_\_\_\_

47. Difference between plasma and serum
- a) Plasma contains fibrinogen
  - b) Serum contains fibrinogen
  - c) Plasma contains more water
  - d) No difference

Answer: \_\_\_\_\_

48. 5 ml of a coloured solution has an absorbance of 0.500 nm. 10 ml of the same solution will have an absorbance of
- a) 0.250 nm
  - b) 0.500 nm
  - c) 0.750 nm
  - d) 1.000 nm

Answer: \_\_\_\_\_

49. Reticulocyte is the immature form of
- a) RBC
  - b) Lymphocyte
  - c) Platelet
  - d) Monocyte

Answer: \_\_\_\_\_