

MAHE MOCK TEST-2

1) A 10 yr old girl presents with swelling of one knee joint. All of the following conditions can be considered in the differential diagnosis, except:

- a) Tuberculosis
- b) Juvenile Rheumatoid Arthritis
- c) Haemophilia
- d) Villonodular synovitis

2) Avascular necrosis can be a possible sequel of fracture of all the following bones, except:

- a) Femur neck
- b) Scaphoid
- c) Talus
- d) Calcaneum

3) Sciatic nerve palsy may occur in the following injury:

- a) Posterior dislocation of hip joint
- b) Fracture of neck femur
- c) Trochanteric fracture
- d) Anterior dislocation of hip

4) A 30 yr old male was brought to the casualty following a road traffic accident. His physical examination revealed that his right lower limb was short , internally rotated, and flexed and adducted at the hip. The most likely diagnosis is:

- a) Fracture of neck femur
- b) Trochanteric fracture
- c) Central fracture dislocation of hip

d) Posterior dislocation of hip

5) Klinefelter's disease is due to avascular necrosis of:

- a) Femoral neck
- b) Medial cuneiform
- c) Lunate bone
- d) Scaphoid bone

6) Thiamine deficiency is known to occur in all of the following except?

- a) Food faddist
- b) Homocystinemia
- c) Chronic alcoholic
- d) Chronic heart failure patient on diuretics

7) The 'P' value of a randomized controlled trial comparing operation A (new procedure) & operation B (gold standard) is 0.04. From this, we conclude that ?

- a) Type II error is small and we can accept the findings of the study
- b) The probability of false negative conclusion that operation A is better than operation B, when in the truth it is not, is 4%
- c) The power of study to detect a difference between the operation A & B is 96%
- d) The probability of a false positive conclusion that the operation A is better than operation B, when in truth it is not is 4%

8) As a part of space-research program, a physiologist was asked to investigate the effect of flight-induced stress on blood pressure. Accordingly, the blood pressure of the cosmonauts were to be measured twice: once before the take off, and once after the space craft entered the designated orbit around the earth. For a proper comparison, the pre-flight blood pressure should be recorded in ?

- a) The lying position

- b) The sitting position
- c) The standing position
- d) Any position, as long as the post flight recording is made in the same position

9) The "SAFE" strategy has been developed for the control of ?

- a) Onchocerciasis
- b) Trachoma
- c) Refractive error
- d) Ocular trauma

10) The commonest cause of low vision in India is ?

- a) Uncorrected refractive errors
- b) Cataract
- c) Glaucoma
- d) Squint

11) Most important epidemiological tool used for assessing disability in children is ?

- a) Activities of Daily living (ADL) scale
- b) Wing's Handicaps, Behavior and Skills (HBS) Schedule
- c) Binet and Simon IQ tests
- d) Physical Quality of life index (PQLI)

12) Elemental iron and folic acid contents of iron and folic acid adult tablets supplied under the "National Programme for Anaemia Prophylaxis" are ?

- a) 60 mg elemental iron & 250 micro gms of folic acid
- b) 100 mg elemental iron and 500 micro gms of folic acid

- c) 120 mg of elemental iron and 750 micro gms of folic acid
- d) 200 mg of elemental iron and 1000 micro gms of folic acid

13) Scope of family planning services include all of the following except ?

- a) Screening for cervical cancer
- b) Providing services for unmarried mothers
- c) Screening for HIV infection
- d) Providing adoption services

14) Class II exposure in animal bites includes the following ?

- a) Scratches without oozing of blood
- b) Licks on fresh wound
- c) Scratch with oozing of blood on palm
- d) Bites from wild animals

15) Denominator while calculating the secondary attack rate includes ?

- a) All the people living in next fifty houses
- b) All the close contacts
- c) All the susceptible's amongst the close contact
- d) All the susceptibles in the whole village

16) The response which is graded by an observer on an agree or disagree continuum is based on ?

- a) Visual analog scale
- b) Guttman scale
- c) Likert scale

d) Adjectival scale

17) For calculation of sample size for a prevalence study all of the following are necessary except ?

a) prevalence of the disease in population

b) Power of study

c) Significance level

d) Desired precision

18) In one single visit, a 9 month old, un-immunized child can be given the following vaccination ?

a) Only BCG

b) BCG, DPT-1, OPV-1

c) DPT-1, OPV-1, Measles

d) BCG, DPT-1, OPV-1, Measles

19) For controlling an outbreak of cholera, all of the following measures are recommended except ?

a) Mass chemoprophylaxis

b) Proper disposal of excreta

c) Chlorination of water

d) Early detection and management of cases

20) Leprosy is considered a public health problem if the prevalence of leprosy is more than ?

a) 1 per 10,000

b) 2 per 10,000

c) 5 per 10,000

d) 10 per 10,000

21) The organism most commonly causing genital filariasis in most parts of Bihar and Eastern U.P. is ?

- a) Wuchereria bancrofti
- b) Brugia malayi
- c) Onchocerca volvulus
- d) Dirofilaria

22) The Vitamin A supplement administered in "Prevention of nutritional blindness in children programme" contains ?

- a) 25,000 i.u./ml
- b) 1 lakh i.u./ml
- c) 3 lakh i.u./ml
- d) 5 lakh i.u./ml

23) The Protein Efficiency ratio (PER) is defined as ?

- a) The gain in weight of young animals per unit weight of protein consumed.
- b) The product of digestibility coefficient and biological value
- c) The percentage of protein absorbed, into the blood
- d) The percentage of nitrogen absorbed from the protein absorbed from the diet

24) A measure of location which divides the distribution in the ratio of 3:1 is ?

- a) Median
- b) First quartile
- c) Third quartile
- d) Mode

25) In the management of leprosy, Lepromin test is most useful for ?

- a) Herd immunity.
- b) Prognosis
- c) Treatment
- d) Epidemiological investigations

26) Elemental iron and folic acid contents of pediatric iron - folic acid tablets supplied under RCH program are ?

- a) 20 mg iron & 100 micro gms of folic acid
- b) 40 mg iron & 100 micro gms of folic acid
- c) 40 mg iron & 50 micro gms of folic acid
- d) 60 mg iron & 100 micro gms of folic acid.

27) For the calculation of positive predictive value of a screening test, the denominator is comprised of ?

- a) True positives + False negatives
- b) False positives + True negatives
- c) True positives + False positives
- d) True positives + True negatives

28) Elements of primary health care include all of the following except ?

- a) Adequate supply of safe water and basic sanitation
- b) Providing essential drugs
- c) Sound referral system
- d) Health Education

29) The Chi-square test is used to measure the degree of ?

- a) Causal relationship between exposure and effect
- b) Association between two variables
- c) Correlation between two variables
- d) Agreement between two observations

30) The parameters of sensitivity and specificity are used for assessing ?

- a) Criterion validity.
- b) Construct validity
- c) Discriminant validity
- d) Content validity

31) A nineteen year old female with short stature, wide spread nipples and primary amenorrhoea most likely has a karyotype of:

- a) 47,XX+18
- b) 46,XXY
- c) 47,XXY
- d) 45X

32) Which of the following procedures are used as routine technique for karyotyping using light microscopy?

- a) C-banding
- b) G-banding
- c) Q-banding
- d) BrdV-staining

33) Leucoerythroblastic picture may be seen in all of the following, except:



- a) Myelofibrosis
- b) Metastatic carcinoma
- c) Gaucher's disease
- d) Thalessemia

34) All of the following are poor prognostic factors for acute myeloid leukemia's, except:

- a) Age more than 60 yrs
- b) Leukocyte count more than 1,00,000/microL
- c) Secondary Leukemia's
- d) Presence of t(8:21)

35) Which of the following increases the susceptibility to coronary artery disease?

- a) Type V hyperlipoproteinemia
- b) Von willebrandt's disease
- c) Nephrotic syndrome
- d) Systemic lupus erythematosus

36) Extensive pleural thickening and calcification especially involving the diaphragmatic pleura are classical features of:

- a) Coal worker's pneumoconiosis
- b) Asbestosis
- c) Silicosis
- d) Siderosis

37) A 30 yr old HIV positive patient presents with fever, dyspnoea and non-productive cough. Patient is cyanosed. His chest X Ray reveals bilateral, symmetrical interstitial infiltrates. The most likely diagnosis is:

- a) Tuberculosis
- b) Cryptococcosis
- c) Pneumocystis carinii pneumonia
- d) Toxoplasmosis

38) The pathologic changes are proliferative and usually confined to mesangial cells; usually focal and segmental

- a) Hematuria may be gross or microscopic
- b) On immunofluorescence deposits contain both IgA and IgG
- c) Absence of associated proteinuria is pathognomonic
- d) The pathologic changes are proliferative and usually confined to mesangial cells; usually focal and segmental

39) An eight yr old boy presents with back pain and mild fever. His plain X ray of the dorso-lumbar spine reveals a solitary collapsed dorsal vertebra with preserved disc spaces. There was no associated soft tissue shadow. The most likely diagnosis is:

- a) Ewing's sarcoma
- b) Tuberculosis
- c) Histiocytosis
- d) Metastasis

40) An albino girl gets married to a normal boy. What are the chances of their having an affected child and what are the chances of their children being carriers?

- a) None affected, all carriers
- b) All normal
- c) 50% carriers
- d) 50% affected, 50% carriers

41) A 1 month old baby presents with frequent vomiting and failure to thrive. There are features of moderate dehydration. Blood sodium is 122 mEq/L and potassium is 6.1 mEq/L. The most likely diagnosis is:

- a) Gitelman syndrome
- b) Barter Syndrome
- c) 21-hydroxylase deficiency
- d) 11-beta-hydroxylase deficiency

42) Transient myeloproliferative disorder of the newborn is seen in association with:

- a) Turner syndrome
- b) Down's syndrome
- c) Neurofibromatosis
- d) Ataxia telangiectasia

43) A 2 month baby presents with history of jaundice, turmeric colored urine, and pale stools since birth. Examination reveals liver span of 10 cms, firm in consistency and spleen of 3 cms. The most specific investigation for establishing the diagnosis would be:

- a) Liver function tests
- b) Ultrasound abdomen
- c) Peoperative cholangiogram
- d) Liver biopsy

44) The most appropriate drug used for chelation therapy in beta thalessemia major is:

- a) Oral desferrioxamine
- b) Oral deferiprone
- c) Intramuscular EDTA

d) Oral succimer

45) Which endocrine disorder is associated with epiphyseal dysgenesis?

a) Hypothyroidism

b) Cushing's syndrome

c) Addison's disease

d) Hypoparathyroidism

46) A couple with a family history of beta thalassemia major in a distant relative, has come for counseling. The husband has HbA2 of 4.8% and the wife has HbA2 of 2.3%.The risk of having a child with beta thalassemia major is:

a) 50%

b) 25%

c) 5%

d) 0%

47) A 5 yr old boy passed 18 loose stools in last 24hrs and vomited twice in last 4 hours. He is irritable but drinking fluids. The optimal therapy for this child is:

a) Intravenous fluids

b) Oral rehydration therapy

c) Intravenous fluid initially for 4 hrs followed by oral fluids

d) Plain water ad libitum

48) A child aged 24 months was brought to the Primary health centre with complaints of cough and fever for the past 2 days. On examination, the child weighed 11 kg, respiratory rate was 38 / min, chest indrawing was present. The most appropriate management for this patient is:

a) Classify as pneumonia and refer urgently to secondary level hospital

- b) Classify as pneumonia, start antibiotics and advise to report after 2 days
- c) Classify as severe pneumonia, start antibiotics and refer urgently
- d) Classify as severe pneumonia and refer urgently

49) Which one of the following statements is false with regard to Xanthogranulomatous pyelonephritis in children:

- a) Often affects those younger than 8 yrs of age
- b) It affects the kidney focally more frequently than diffusely
- c) Boys are affected more frequently
- d) Clinical presentation in children is same as in adults

50) Which one of the following statements is false with regard to pyuria in children?

- a) Presence of more than 5 WBC/hpf for girls and more than 3 WBC/hpf for boys
- b) Infection can occur without pyuria
- c) Pyuria may be present without Urinary tract infection
- d) Isolated pyuria is neither confirmatory nor diagnostic for UTI