### CMS – 2014 (Medical Science Paper II)

- 1. A 40 year old man presented with a flat 1x1cm. scaly, itchy black mole on the front of thigh. Examination did not reveal any inguinal lymphodenopathy. The best course of management would be:
  - (a) FNAC of lesion
  - (b) Incision biopsy
  - (c) Excision biopsy
  - (d) Wide excision with inguinal lymphadenectomy.
- 2. Indications of TURP for Benign Hyperplasia Prostate (BHP) include
  - 1. Urinary flow rate of less than 10cc/second
  - 2. Residual volume of urine >100cc
  - 3. Serum level of prostatic specific antigen>10nmol/L
  - 4. Trabeculated Urinary bladder

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 2, 3 and 4
- (c) 1, 2 and 4
- (d) 1, 3 and 4
- 3. Ankyloglossia in a patient with carcinoma tongue is staged as
  - (a) T<sub>1</sub>
  - (b) T<sub>2</sub>
  - (c) T<sub>3</sub>
  - (d) T<sub>4</sub>
- 4. Which is the most commonly used chemotherapy regimen in the adjuvant treatment following modified radical mastectomy in the estrogen receptor negative 35 year old female with breast cancer?
  - (a) Cyclophosphamide + 5 Fluro-uracil
  - (b) Cyclophosphamide + Methotrexate + 5–Fluoro-uracil
  - (c) Cyclophosphamide + Adriamycin + 5–Fluro-uracil
  - (d) Adriamycin + 5–Fluro-uracil

5. Consider the following statements:

The clinical features of tension pneumothorax include

- 1. tracheal shift to contralateral side
- 2. absent breath sounds on the affected side
- 3. low output circulatory failure
- 4. peripheral cyanosis

Which of the statements given above is/are correct?

- (a) 1, 2 and 3
- (b) 1 and 3 only
- (c) 2 and 4
- (d) 1 and 4
- 6. The following procedures are recommended for palliation in a patient with obstructive jaundice due to unresectable carcinoma of head of pancreas *except*:
  - (a) Choledochoduodenostomy with gasterojejunostomy
  - (b) Choledochoduodenostomy, gastrojejunostomy with pancreaticojejunostomy
  - (c) Hepaticojejunostomy with gastrojejunostomy
  - (d) Cholecystojejunostyomy with jejunojejunostomy with gastrojejunostomy
- 7. Which of the following are contraindications to salvaging accidentally injured spleen during operation?
  - 1. Labile blood pressure
  - 2. Presence of intraperitoneal infection
  - 3. Pre-existing splenic disease
  - 4. Age below 50 years

Select the correct answer using the code given below:

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 2, 3 and 4
- (d) 1, 3 and 4
- 8. Match List 1 (Condition) with List II (Presentation) and select the correct answer using the code given below the lists

List I (Condition)

A. Caroli's disease

# List II (Presentation)

- 1. Abdominal pain, Biliary sepsis
- 2. Hepatomegaly, Pain
- 3. Ascites
- 4. Abdominal Liver Function Test (LFT) or jaundice

- B. Budd-Chiari Syndrome
- C. Polycystic Liver Disease
- D. Primary sclerosing cholangitis

#### Code:

	А	B C	D	
(a)	A/1	B/3	C/2	D/4
(b)	A/3	B/2	C/4	D/1
(c)	A/4	B/3	C/2	D/1
(d)	A/1	B/2	C/3	D/4

- 9. Treatment of choice for annular pancreas is
  - (a) Resection
  - (b) Duodenoduodenostomy
  - (c) Gastrojejunostomy
  - (d) Pyloromyotomy
- 10. In a patient of gastric outlet obstruction nutritional support is best delivered by:
  - (a) Enteral nutrition by Ryles tube
  - (b) Gastrostomy
  - (c) Jejunostomy
  - (d) Parenteral nutrition
- 11. The following nerves are blocked for repairing inguinal hernia by local anaesthetic *except:* 
  - (a) Ilio-inguinal
  - (b) Ilio-hypogastric
  - (c) Genito femoral
  - (d) Femoral

#### 12. Consider the following statements:

Venacaval opening of the diaphragm, situated at the level of T<sub>8</sub> transmits

- 1. inferior vena cava
- 2. vagus nerve
- 3. branches of the right phrenic nerve
- 4. thoracic duct

Which of the statements given above are correct?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 and 3
- (d) 1 and 4
- 13. Traumatic haemothorax is best managed by:
  - (a) Intercostal tube drainage
  - (b) Open drainage
  - (c) Aspiration of blood from pleural cavity
  - (d) Use of streptokinase
- 14. Which of the following statements about mesh skin grafts is **not** correct?
  - (a) They permit coverage of large areas.
  - (b) They allow egress of fluid collections under the graft.
  - (c) They contract to the same degree as a grafted sheet of skin.
  - (d) They "take" satisfactorily on granulating bed.

- 15. An 8 year old girl sustained a fall on the outstretched right hand 6 hours ago and was treated with egg albumen bandages by a village bone setter. She presented with gross swelling of the right elbow and forearm. The first essential intervention in this case would be to
  - (a) order urgent radiographs of both elbows.
  - (b) immerse the hand in warm water to increase the circulation.
  - (c) elevate the right hand.
  - (d) completely remove all encircling bandages.
- 16. Sprain of the ankle joint results from an injury to:
  - (a) Deltoid ligament
  - (b) Spring Ligament
  - (c) Posterior talofibular ligament
  - (d) Anterior talofibular ligament
- 17. Which of the following are the most common forms of cardiac tumors seen in clinical practice ?
  - (a) Rhabdomyosarcoma
  - (b) Angiosarcoma
  - (c) Myxoma
  - (d) Lymphoma
- 18. The following operative procedure can result in neurogenic voiding dysfunction *except:* 
  - (a) Radical hysterectomy
  - (b) Ureterolithotomy
  - (c) Abdominoperineal resection
  - (d) Retroperitoneal lymph node dissection
- 19. In diabetes mellitus the following findings are seen in ophthalmoscopy *except*:
  - (a) Dot haemorrhage
  - (b) Flame shaped haemorrhage
  - (c) Wet sponge haemorrhage
  - (d) Microaneurysm
- 20. Consider the following structures in the femoral triangle:
  - 1. Femoral canal
  - 2. Femoral Nerve
  - 3. Femoral artery
  - 4. Femoral vein
  - What is the correct sequence of the above from medial to lateral?
    - (a) 1, 2, 3, 4
    - (b) 4, 3, 1, 2
    - (c) 1, 4, 3, 2
    - (d) 3, 4. 2, 1

- 21. A female patient aged 30 years with bilateral conductive deafness is wearing a hearing aid. What is the probable diagnosis?
  - (a) Presbycusis
  - (b) Chronic suppurative otitis media
  - (c) Meniere's disease
  - (d) Otosclerosis
- 22. Match List I with List II and select the correct answer using the code given below the lists:

*List I (Operative procedure)* 

- A. Highly selective vagotomy
- B. Vagotomy with Gastrojejunostomy
- C. Subtotal Gastrectomy
- D. Nissen's Fundoplication

- List II (Complication)
- 1. Metabolic bone disease
- 2. Post Prandial gas bloat
- 3. Lesser curve necrosis
- 4. Diarrhea

# Code:

	Α	B	С	D
(a)	A/2	<b>B</b> /1	C/4	D/3
(b)	A/3	B/4	C/1	D/2
(c)	A/2	B/4	C/1	D/3
(d)	A/3	<b>B</b> /1	C/4	D/2

- 23. Which of the following pairs is not correctly matched?
  - (a) Krukenberg tumour
    (b) Blumer's shelf
    ...... Peritoneal seeding involving ovaries
    ...... Secondary deposits in pelvic cul-de-sac
  - (c) Virchow's node ...... Palpable node in left supraclavicular space
  - (d) Sister Joseph's nodule .......... Solitary secondary deposit in the liver
- 24. Optimum age for surgery for a child with cleft lip is:
  - (a) 4 weeks
  - (b) 4 6 weeks
  - (c) 3 6 months
  - (d) 6-18 months
- 25. An electrical contact burn is considered to be:
  - (a) Superficial partial thickness burn
  - (b) Full thickness burn
  - (c) Deep partial thickness burn
  - (d) Superficial scalding with blisters

- 26. In a fracture of shaft of longbone, the component which contributes *least* in fracture healing is:
  - (a) Blood vessels
  - (b) Periosteum
  - (c) Matrix
  - (d) Endosteum
- 27. A 52 year old male patient comes with history of rectal bleeding, alteration in bowel habits and tenesmus. The ideal investigation would be:
  - (a) Motion for occult blood
  - (b) Contrast enhance CT scan
  - (c) Colonoscopy
  - (d) Ultrasonogram
- 28 What is the treatment of choice in a patient with Crohn's case, where inflamed appendix was found on exploration?
  - (a) Appendecectomy
  - (b) Ileo–colic resection and anastomosis
  - (c) Closing the abdomen and starting medical treatment
  - (d) None of the above

In an unconscious patient with multiple injuries, what is the best and reliable modality for assessment of cervical spine injury?

- (a) Full AP and lateral radiographs of spine
- (b) MRI scan
- (c) While doing CT scan of brain take extra cuts at the cervical spine region
- (d) Rely only on clinical examination
- 30. The following are features of hypovolemic shock *except*:
  - (a) Oliguria
  - (b) Bradycardia
  - (c) Low Blood Pressure
  - (d) Acidosis
- 31. A 45 year old man sustains trauma in a road traffic accident and develops engorgement of neck veins, pallor, rapid pulse rate, and chest pain. What is the most likely diagnosis?
  - (a) Pulmonary laceration
  - (b) Cardiac tamponade
  - (c) Haemothorax
  - (d) Rupture of spleen

- 32. Which one of the following statements is **not** correct regarding trichobezoar (hair balls)?
  - (a) It is more common in females.
  - (b) It is associated usually with psychiatric illness.
  - (c) It is more common in young.
  - (d) It is usually associated with pyloric stenosis.
- 33. Consider the following conditions:
  - 1. Otitis media
  - 2. Speech problems
  - 3. Dentition abnormalities
  - Which of the above is/are associated with cleft palate?
    - (a) 1 only
    - (b) 2 and 3 only
    - (c) 1 and 3 only
    - (d) 1, 2 and 3
- 34. On second day following femoral embolectomy, the leg is found to be tender, tense and dusky with feeble dorsalis pedis. The most appropriate management would be:
  - (a) Doing re-embolectomy
  - (b) Fasciotomy
  - (c) Dye studies
  - (d) Anticoagulant therapy
- 35. An air fluid level with dilated oesophagus and "bird beak" appearance in a barium swallow is diagnostic of:
  - (a) Achalasia cardia
  - (b) Carcinoma oesophagus
  - (c) Hiatus hernia
  - (d) Barrett's oesophagus
- 36. A colonic carcinoma involving muscularis propria, with one or two nodes involved with a solitary metastasis in the liver, the TNM stage would be:
  - (a)  $T_2 N_1 M_1$
  - (b)  $T_1 \ N_2 \ M_1$
  - $(c) \ T_2 \ N_2 \ M_1$
  - (d)  $T_1 \quad N_1 \quad M_1$

- 37. After undergoing surgery, for carcinoma of colon, a patient developed single liver metastasis of 2 cm. What would be the next treatment?
  - (a) Resection
  - (b) Chemo-radiation
  - (c) Acetic acid injection
  - (d) Radio frequency ablation
- 38. Which one of the following is given a score of two in Alvarado score?
  - (a) Rebound tenderness
  - (b) Anorexia
  - (c) Pyrexia
  - (d) Leukocytosis
- 39. Which one of the following parts of intussception is susceptible for ischaemia and perforation?
  - (a) Intussucepiens
  - (b) Intussuceptum
  - (c) Apex
  - (d) Neck
- 40. A 30 year old lady comes with history of bloody discharge from her right nipple while taking bath. On examination, there is a cystic swelling in the subareolar region. The clinical diagnosis would be:
  - (a) Duct ectasia
  - (b) Intraductal papilloma
  - (c) Fibrocystic disease
  - (d) Intraductal carcinoma
- 41. Match List I (sign) with List II (description) and select the correct answer using the code given below the lists:

<i>List I (sign)</i> A. Palmer's sign B. Braxton Hicks sign	<ul><li><i>List II (description)</i></li><li>1. Bluish coloration of vagina in pregnancy</li><li>2. Rhythmic painless uterine contractions felt per abdomen in second trimester</li></ul>
C. Goodell's sign	3. Softening of cervix in pregnancy

4. Rhythmic uterine contractions felt in first trimester

D.	Chadwick sign

Code:
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	Α	B	С	D
(a)	A/1	B/2	C/3	D/4
(b)	A/4	B/2	C/3	D/1
(c)	A/2	B/3	C/1	D/4
(d)	A/3	B/2	C/1	D/4

- 42. HELLP syndrome includes the following *except:* 
  - (a) Hemolysis
  - (b) Elevated liver enzymes
  - (c) Leucocytosis
  - (d) Low platelet count
- 43. Predisposing factors of puerperial sepsis are following except:
  - (a) Multiparity
  - (b) Repeated internal examinations specially in the case of premature rupture of membrane
  - (c) Cases of manual removal of placenta
  - (d) Placenta previa
- 44. Consider the following:
  - 1. Fetal pulmonary hypoplasia
  - 2. Fetal chromosomal anomalies
  - 3. Prostaglandin synthetase inhibitors
  - 4. Amniotic fluid index of 15 cm

Which of the above are associated with oligohydramnios?

- (a) 1, 2 and 4
- (b) 2, 3 and 4
- (c) 1, 3 and 4
- (d) 1, 2 and 3
- 45. Surgical treatment of choice for a 20 year old woman with nulliparous uterine prolapsed is:
  - (a) Vaginal hysterectomy with pelvic floor repair
  - (b) Abdominal hysterectomy with pelvic floor repair
  - (c) Sling surgery
  - (d) Le Forte's repair
- 46. A 32 years old woman with two live children was brought to emergency with history of missed period for 15 days, spotting since 7 days and pain abdomen since 6 hours. Her pulse was 120 per minute, pallor + +, systolic B.P. 80 mm Hg. There was fullness and tenderness on per abdomen examination. Copper T thread was seen through external os on per speculum examination. On p/ v examination, cervical movements were tender, uterus was anteverted, bulky and soft. There was fullness in pouch of Douglas. Most likely, she is suffering from:
  - (a) Pelvic inflammatory disease
  - (b) Missed abortion with infection
  - (c) Ruptured ectopic pregnancy
  - (d) Threatened abortion

- 47. A 20 year old primigravida is admitted with full term pregnancy and labour pains. At 4 A.M. she goes into active phase of labour with 4 cm cervical dilatation. Membranes rupture during p/v examination showing clear liquor. A repeat p/v after 4 hours of good uterine contractions reveals a cervical dilatation of 5 cm. What should be the next step in management?
  - (a) Reassess after 4 hours
  - (b) Immediate caesarean section
  - (c) Oxytocin drip
  - (d) Reassess for occipitoposterior position and cephalopelvic disproportion
- 48. Immediately after third stage of labour in a case of full term delivery, the fundus of the uterus is:
  - (a) At the level of xiphisternum
  - (b) At the level of umbilicus
  - (c) Below the level of umbilicus
  - (d) Just above the symphysis pubis
- 49. Which one of the following is **not** a complication of shoulder dystocia?
  - (a) Laceration of the birth canal
  - (b) Postpartum haemorrhage
  - (c) Facial palsy
  - (d) Brachial plexus palsy
- 50. Which of the following methods for induction of labour should **not** be used in the patient with previous lower segment caesarean section?
  - (a) Vaginal prostaglandin gel
  - (b) Oral prostaglandin tablet
  - (c) Stripping of the membrane
  - (d) Oxytocin drip
- 51. The causes for subinvolution of uterus are the following **except**:
  - (a) Multiple pregnancy
  - (b) Pelvic infection
  - (c) Established breast feeding
  - (d) Retained placental fragments
- 52. Oxytocin is **not** responsible for:
  - (a) Milk production
  - (b) Uterine involution
  - (c) After pains
  - (d) Milk ejection

Treatment of choice in 28 year old nulli para one with third degree cervical descent is:

- (a) Vaginal hysterectomy with PFR
- (b) Abdominal cervicopexy
- (c) Fothergill's repair
- (d) Anterior and posterior colporrhaphy
- 54. A G<sub>2</sub> P<sub>1</sub>A<sub>o</sub> presents with full term pregnancy with transverse lie in the first stage of labour. On examination, cervix is 5 cm dilated, membranes are intact and foetal heart sounds are regular. The appropriate management would be:
  - (a) Wait for spontaneous ovulation and expulsion
  - (b) External cephalic version
  - (c) Internal podalic version
  - (d) Caesarean section
- 55. Absolute contraindication for the use of OCPs is:
  - (a) Thromboembolism
  - (b) Hypertension
  - (c) Diabetes
  - (d) Epilepsy
- 56. Cephalhematomas are most commonly found over:
  - (a) Frontal bone
  - (b) Temporal bone
  - (c) Parietal bone
  - (d) Occipital bone
- 57. Rokintansky Kuster Hauser syndrome is associated with:
  - (a) Primary amenorrhoea with mullerian agenesis
  - (b) Renal abnormalities
  - (c) Normal hormone profile
  - (d) All of the above
- 58. Neo-natal infection in a Hepatitis 'B' positive pregnant woman can be prevented by administering:
  - (a) Hepatitis 'B' vaccine
  - (b) Immunoglobulin
  - (c) Vaccine and Immunoglobulin
  - (d) Corticosteroids
- 59. The level of external cervical os in a second degree utero-vaginal prolapse is:
  - (a) At the level of ischial spines
  - (b) Between ischial spines and introitus
  - (c) Introitus
  - (d) 3 cm outside introitus

- 60. Which one of the following is **not** an epithelial tumour of the ovary?
  - (a) Serous cystadenoma
  - (b) Brenner's tumour
  - (c) Clear cell tumour
  - (d) Endodermal sinus tumour
- 61. In which of the following is the term low and high grade squamous intraepithelial neoplasia used?
  - (a) FIGO staging
  - (b) Papanicalou method
  - (c) Bethesda classification
  - (d) Shaw's classification.
- 62. Carcinoma of endometrium is associated with the following risk factors except:
  - (a) Obesity
  - (b) Diabetes
  - (c) Hypertension
  - (d) Multiparity
- 63. Female sterilization is contraindicated in:
  - (a) Heart disease
  - (b) Diabetes mellitus
  - (c) Hypertension
  - (d) None of the above
- 64. Laparoscopic sterilization is **not** recommended during the period of:
  - (a) Immediate post partum
  - (b) Interval
  - (c) Post menstrual
  - (d) Post first trimester M.T.P
- 65. The highest incidence of ectopic pregnancy amongst contraceptive users is observed with:
  - (a) Combined contraceptive pills
  - (b) Copper T intrauterine contraceptive device
  - (c) Progestasert intrauterine device
  - (d) Levonorgestrel intrauterine system
- 66. Which one of the following is the most suitable situation for prescribing progestin only pill?
  - (a) Young patients
  - (b) Emergency contraception
  - (c) Lactating mother
  - (d) Woman with unexplained vaginal bleeding

- 67. During Pomeroy's method of female sterilization, which portion of tube is ligated?
  - (a) Isthmus
  - (b) Ampullary
  - (c) Isthmo-ampullary
  - (d) Cornual

Which of the following is not true regarding 'no scalpel' vasectomy?

- (a) Special instruments are used to deliver the vas instead of cutting the skin.
- (b) Scrotal skin is cut with LASER to expose the vas.
- (c) The failure rate is same as that of conventional vasectomy.
- (d) It is a very popular method in China.
- 69. A G<sub>6</sub> P<sub>5</sub> L<sub>5</sub> with 4  $^{1}/_{2}$  MA comes to you requesting a medical termination of pregnancy after sex determination. Then,
  - (a) you will do the termination because continuation of pregnancy will affect the mental health of the patient and it is a clause in the M.T.P. Act.
  - (b) you will consult another medical practitioner because it is a mid-trimester pregnancy.
  - (c) you will do both (a) and (b) above.
  - (d) you will not do it, as it is against the law.
- 70. Which one of the following is the safest gas for creating pneumoperitoneum in operative laparoscopy?
  - (a) Oxygen
  - (b) Carbon monoxide
  - (c) Carbon dioxide
  - (d) Nitrous oxide
- 71. Which one of the following causes the greatest risk of ectopic pregnancy?
  - (a) Previous normal delivery
  - (b) Intrauterine contraceptive devices use
  - (c) Previous ectopic pregnancy
  - (d) Previous medical termination of pregnancy
- 72. Face to pubes delivery occurs in which of the foetal position?
  - (a) Mentoanterior
  - (b) Mentoposterior
  - (c) Occipito-sacral
  - (d) Brow presentation
- 73. The peak level of human chorionic gonadotropin in normal pregnancy occurs between:
  - (a) 10 to 12 days after pregnancy
  - (b) 30 to 40 days after pregnancy
  - (c) 60 to 70 days after pregnancy
  - (d) 100 to 120 days after pregnancy

- 74. The second most common site for endometriosis after ovary is the:
  - (a) Outer surface of uterus
  - (b) Peritonium of the pouch of Douglas
  - (c) Round ligaments
  - (d) Fallopian tubes
- 75. A patient who just delivered at home presents with a third degree perineal tear. You will do the repair:
  - (a) immediately
  - (b) after 24 hours.
  - (c) after 6 weeks
  - (d) after 3 months
- 76. The gestational sac is first visible on transvaginal USG by:
  - (a) 30 days
  - (b) 35 days
  - (c) 42 days
  - (d) 49 days
- 77. A 30 years old housewife reports with 6 months amenorrhea. Her serum LH and FSH are high with low estradiol levels. What is the most likely cause of amenorrhea in this context?
  - (a) Pituitary tumour
  - (b) Polycystic ovarian disease
  - (c) Exercise induced
  - (d) Premature menopause
- 78. Branches of anterior division of internal iliac artery include the following except:
  - (a) Uterine artery
  - (b) Inferior vesical
  - (c) Inferior gluteal
  - (d) Superior gluteal
- 79. The pearl index of contraceptive failure is expressed as a rate per
  - (a) 1 woman-year
  - (b) 10 women-years
  - (c) 100 women-years
  - (d) 1000 women-years

80. Match List I with List II and select the correct answer using the code given below the lists:

List I (Condition)

- A. Hand prolapse
- B. Placental delivery
- C. Extended arms of breech at delivery
- D. Deep transverse arrest

- 1. Lovset technique
- 2. Decapitation
- 3. Brandt Andrew's procedure
- 4. Vacuum extraction

Code	:			
	А	В	С	D
(a)	A/2	B/3	C/1	D/4
(b)	A/2	<b>B</b> /1	C/3	D/4
(c)	A/4	B/3	C/1	D/2
(d)	A/4	B/1	C/3	D/2

- 81. The example of de-professionalization of medicine is widely seen in India in the form of:
  - (a) Rural internship by doctors
  - (b) Providing Primary Health Care
  - (c) Irrational use of antibiotics by doctors
  - (d) Medical malpractice by doctors
- 82. Consider the following:
  - 1. Literacy rate
  - 2. Life expectancy at birth
  - 3. Life expectancy at the age of one year
  - 4. Infant mortality
  - Which of the above are the components of Physical Quality of Life Index (P.Q.L.I.)?
    - (a) 1 and 2
    - (b) 1, 3 and 4
    - (c) 2 and 4
    - (d) 1 and 4 only
- 83. Which one of the following is included in Indian Public Health Standards for a Primary Health Centre?
  - (a) Manual removal of placenta
  - (b) Blood storage facility
  - (c) Surgery for hydrocele
  - (d) Safe abortion services

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- 84. Which one of the following substances induces no dependence?
  - (a) Barbiturates
  - (b) Cannabis
  - (c) Heroin
  - (d) LSD
- 85. The pattern of disease in a community described in terms of the important factors which influence its occurrence is known as:
  - (a) Experimental epidemiology.
  - (b) Confounding
  - (c) Iceberg phenomenon
  - (d) Community diagnosis
- 86. The term "disease control" describes the ongoing operations aimed at reducing all of the following, **except:** 
  - (a) The incidence of disease
  - (b) The financial burden to the community
  - (c) Virulence of the disease agent
  - (d) Prevention of complications
- 87. The relationship between birth rate and maternal hemoglobin is best studied by:
  - (a) Standard error of difference between two means.
  - (b) Standard error of difference between two proportions.
  - (c) Correlation and regression.
  - (d) Sensitivity and specificity.
- 88. Beta oxalyl amino alanine (BOAA) is found in:
  - (a) Argemone mexicana
  - (b) *Lathyrus sativus*
  - (c) Aspergilus flavus
  - (d) Crotolaria medicagenia
- 89. Due to which of the following does seasonal trend of a disease occur?
  - 1. Vector variation
  - 2. Environmental factors
  - 3. Change in herd community
  - Select the correct answer using the code given below:
    - (a) 1 only
    - (b) 2 and 3 only
    - (c) 1 and 3 only
    - (d) 1, 2 and 3

- 90. Excessive nitrates in drinking water can produce:
  - (a) Hypochromic microcytic anemia.
  - (b) Methaenoglobinaemia.
  - (c) Polycythemia vera.
  - (d) Hemophilia.

## 91. Calcium content of milk is lowest in the milk of:

- (a) Human
- (b) Goat
- (c) Cow
- (d) Buffalo
- 92. What is the time limit for registration of a birth?
  - (a) 7 days
  - (b) 14 days
  - (c) 21 days
  - (d) 3 days
- 93. The following statements are correct for healthful school environment except:
  - (a) In the classroom, desks should be of minus type.
  - (b) Per capita space for each student should be 6 sq. feet.
  - (c) Combined window and door area should be 25% of the floor space.
  - (d) One urinal should be provided for 60 students.
- 94. The following are the indicators for assessing the sensitivity of surveillance of polio except:
  - (a) A minimum of one case of AFP per 100,000 children under 15 years of age detected per year
  - (b) A minimum of one case of AFP per 100,000 children under 5 years of age detected per year
  - (c) At least 80% of the reporting sites should report each month even in the absence of cases
  - (d) Percentage of AFP cases with 2 stools taken within 2 weeks after paralysis onset  $\geq 80\%$
- 95. Tuberculosis in HIV positive individuals is characterized by which of the following?
  - 1. More frequent negative sputum smears.
  - 2. More false-negative tuberculin test results.
  - 3. More extra-pulmonary tuberculosis.
  - 4. More cavitating lesions in lungs as shown by chest X-ray.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

- 96. Consider the following features of cholera:
  - 1. Onset with purging.
  - 2. No nausea or retching.
  - 3. No tenesmus.
  - 4. Leukocytosis.
  - Which of the above features of cholera differentiate it from food poisoning?
    - (a) 1, 2 and 3
    - (b) 2, 3 and 4
    - (c) 1, 2 and 4
    - (d) 1, 2, 3 and 4
- 97. What is the most important test to assess the prevalence of tuberculosis infection in a community?
  - (a) Mass miniature radiography
  - (b) Tuberculin test
  - (c) Sputum examination of AFB
  - (d) Clinical examination
- 98. With which one of the following respiratory lesions is smoking not associated?
  - (a) Chronic bronchitis
  - (b) Emphysema
  - (c) Sarcoidosis
  - (d) Lung carcinoma
- 99. In a normal curve, the area between one standard deviation on either side of the mean will include:
  - (a) Less than 50% of the values
  - (b) Approximately 68% of the values
  - (c) 70 85% of the values
  - (d) 95% of the values
- 100. Match List I with List II and select the correct answer using the code given below the lists:

*List I (Health education methods)* 

- A. Symposium
- B. Panel discussion
- C. Work-shop.
- D. Role-play.

### Code:

	А	В	С	D
(a)	A/3	B/4	C/2	D/1
(b)	A/3	B/2	C/4	D/1
(c)	A/1	B/2	C/4	D/3
(d)	A/1	B/4	C/2	D/3

*List II (Characteristics)* 

- 1. Situation is dramatized
- 2. Arriving at a plan of action to solve the problem
- 3. Series of speeches on a selected subject
- 4. Discussion among the speakers

Which of the following insecticides is **not** used as a larvicide?

- (a) Abate
- (b) Paris green
- (c) Fenthion
- (d) Dichlorvos
- 102. An outbreak of Viral Hepatitis was reported from a town between June and August of a particular year. 60% of cases occurred in July. Exposure of the community to infection is from:
  - (a) A single source for a short period.
  - (b) A common single source for prolonged periods
  - (c) Multiple sources for a short period
  - (d) Multiple sources over prolonged periods
- 103. A rapid mass screening method that can be used by a paramedical worker for detecting malnutrition in pre-school (age: 1 to 5 years) children is:
  - (a) Weight for age
  - (b) Height for age
  - (c) Mid–arm circumference
  - (d) Weight for height
- 104. Among the following which one is the most important determinant of infant mortality?
  - (a) Birth weight
  - (b) Age of the mother
  - (c) Order of birth
  - (d) Interval between births
- 105. Which one of the following indicators is not included in Millennium Development Goals?
  - (a) Maternal mortality ratio
  - (b) Under five mortality rate
  - (c) Malaria death rate per 100,000 children (0 4 years of age)
  - (d) T.B. death rate per 100,000 children (0 4 years of age)
- 106. Severity of a disease is measured by:
  - (a) Relative risk
  - (b) Attributable risk
  - (c) Incidence rate
  - (d) Case fatality rate
- 107. 'Spot map' in epidemiological studies refer to variation in the distribution of a disease at:
  - (a) International level
  - (b) National level
  - (c) Rural urban level
  - (d) Local level

108. Which of the following is an example of 'live attenuated vaccine'?

- (a) D.P.T.
- (b) B.C.G.
- (c) Hepatitis 'B'
- (d) Typhoid (TAB)
- 109. Specificity of a test is =
  - (a) (True positives X 100) / (True positives + False negatives) %
  - (b) (True negatives X 100) / (True negatives + False positives) %
  - (c) (True negatives X 100) / (True positives + True negatives) %
  - (d) (True positives X 100) / (True negatives + False positives) %

110. With reference to historical cohort study, which of the following statements is not correct?

- (a) Outcomes have occurred before the start of the investigation.
- (b) Experience of cohort is assessed from existing records.
- (c) Duration of study is shorter as compared to current cohort study.
- (d) Control subjects are selected from the current population without exposure.
- 111. Which of the following are the features of Rubella?
  - 1. Rashes appear within 24 hours of onset of symptoms
  - 2. Incubation period is 2 3 weeks
  - 3. False membrane is formed in throat
  - 4. Post auricular lymph nodes enlarge

Select the correct answer using the code given below:

- (a) 1, 2 and 4
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 2 and 4 only
- 112. Iodine can be used for the disinfection of which of the following?
  - 1. Water
  - 2. Faeces
  - 3. Urine
  - 4. Skin

Select the correct answer using the code given below:

- (a) 1 only
- (b) 1 and 4 only
- (c) 1, 3 and 4
- (d) 1, 2 and 3

113. Consider the following:

- 1. Standard deviation
- 2. Range
- 3. Mode
- 4. Median

Among the above, which is/are the measure/measures of dispersion?

- (a) 1, 2, 3 and 4
- (b) 1 only
- (c) 1 and 2 only
- (d) 3 and 4 only
- 114. Which of the following diseases has man as an incidental host with 'Pig  $\rightarrow$  Mosquito  $\rightarrow$  Pig' as the basic cycle of transmission?
  - (a) Japanese encephalitis
  - (b) Chikungunya
  - (c) Handigodu syndrome
  - (d) Kyasanur forest disease
  - 115. A screening programme for school children was undertaken with the following results:
    - 1. 30% boys and 60% girls were found to be anemic
    - 2. 50% children had history of passing worms in stool
    - 3. 10% children had poor vision
    - 4. 5% children had enlarged tonsils
    - In this context, which of the following is **not** an appropriate follow up activity?
      - (a) Providing iron supplementation to all children
      - (b) Administering mass deworming medication to all children
      - (c) Referring those children with enlarged tonsils for surgery
      - (d) Prescribing corrective spectacles to children with poor vision
  - 116. Sullivan's index is an indicator of:
    - (a) Mortality
    - (b) Morbidity
    - (c) Disability
    - (d) Health care delivery
  - 117. Which one of the following mosquitoes is responsible for transmitting Japanese encephalitis?
    - (a) *Culex tritaeniorhynchus*
    - (b) Anopheles stephensi
    - (c) Aedes egypti
    - (d) Mansonoides

- 118. The primary route of administration of measles vaccination is:
  - (a) Subcutaneous
  - (b) Intradermal
  - (c) Intravenous
  - (d) Intranasal
- 119. Which of the following statements is **not** true regarding HIV infection?
  - (a) HIV does not transmit through fomites.
  - (b) Every HIV infected person would require antiretroviral treatment during lifetime.
  - (c) All HIV positive mothers transmit infection to their newborn children.
  - (d) Infected blood transfusion leads to 100% transmission among recipients.
- 120. Which one of the following statements is correct regarding diabetes epidemiology?
  - (a) Its prevalence is not affected by age.
  - (b) Females are 2.5 times more at risk.
  - (c) Maternal diabetes increases the risk of subsequent diabetes.
  - (d) Central obesity is not linked with diabetes.