

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 lymphadenopathy. 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 bladderSelect 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) T₁
 - (b) T₂
 - (c) T₃
 - (d) T₄

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 gastrojejunostomy
 - (b) Choledochoduodenostomy, gastrojejunostomy with pancreaticojejunostomy
 - (c) Hepaticojejunostomy with gastrojejunostomy
 - (d) Cholecystojejunostomy 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 I (Condition) with List II (Presentation) and select the correct answer using the code given below the lists

List I (Condition)

List II (Presentation)

- A. Caroli's disease
- B. Budd-Chiari Syndrome
- C. Polycystic Liver Disease
- D. Primary sclerosing cholangitis

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

Code:

- | | A | 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
- Resection
 - Duodenoduodenostomy
 - Gastrojejunostomy
 - Pyloromyotomy
10. In a patient of gastric outlet obstruction nutritional support is best delivered by:
- Enteral nutrition by Ryles tube
 - Gastrostomy
 - Jejunostomy
 - Parenteral nutrition
11. The following nerves are blocked for repairing inguinal hernia by local anaesthetic *except*:
- Ilio-inguinal
 - Ilio-hypogastric
 - Genito femoral
 - Femoral
12. Consider the following statements:
Venacaval opening of the diaphragm, situated at the level of T₈ transmits
- inferior vena cava
 - vagus nerve
 - branches of the right phrenic nerve
 - thoracic duct
- Which of the statements given above are correct?
- 1 and 2
 - 2 and 3
 - 1 and 3
 - 1 and 4
13. Traumatic haemothorax is best managed by:
- Intercostal tube drainage
 - Open drainage
 - Aspiration of blood from pleural cavity
 - Use of streptokinase
14. Which of the following statements about mesh skin grafts is **not** correct?
- They permit coverage of large areas.
 - They allow egress of fluid collections under the graft.
 - They contract to the same degree as a grafted sheet of skin.
 - 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
- order urgent radiographs of both elbows.
 - immerse the hand in warm water to increase the circulation.
 - elevate the right hand.
 - completely remove all encircling bandages.
16. Sprain of the ankle joint results from an injury to:
- Deltoid ligament
 - Spring Ligament
 - Posterior talofibular ligament
 - Anterior talofibular ligament
17. Which of the following are the most common forms of cardiac tumors seen in clinical practice ?
- Rhabdomyosarcoma
 - Angiosarcoma
 - Myxoma
 - Lymphoma
18. The following operative procedure can result in neurogenic voiding dysfunction *except*:
- Radical hysterectomy
 - Ureterolithotomy
 - Abdominoperineal resection
 - Retroperitoneal lymph node dissection
19. In diabetes mellitus the following findings are seen in ophthalmoscopy *except*:
- Dot haemorrhage
 - Flame shaped haemorrhage
 - Wet sponge haemorrhage
 - Microaneurysm
20. Consider the following structures in the femoral triangle:
- Femoral canal
 - Femoral Nerve
 - Femoral artery
 - Femoral vein
- What is the correct sequence of the above from medial to lateral ?
- 1, 2, 3, 4
 - 4, 3, 1, 2
 - 1, 4, 3, 2
 - 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)

List II (Complication)

- | | |
|------------------------------------|----------------------------|
| A. Highly selective vagotomy | 1. Metabolic bone disease |
| B. Vagotomy with Gastrojejunostomy | 2. Post Prandial gas bloat |
| C. Subtotal Gastrectomy | 3. Lesser curve necrosis |
| D. Nissen's Fundoplication | 4. Diarrhea |

Code:

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | A/2 | 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/1 | C/4 | D/2 |

23. Which of the following pairs is not correctly matched?
- (a) Krukenberg tumour Peritoneal seeding involving ovaries
 - (b) Blumer's shelf 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) Appendectomy
 - (b) Ileo-colic resection and anastomosis
 - (c) Closing the abdomen and starting medical treatment
 - (d) None of the above
29. 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)?
- It is more common in females.
 - It is associated usually with psychiatric illness.
 - It is more common in young.
 - It is usually associated with pyloric stenosis.
33. Consider the following conditions:
- Otitis media
 - Speech problems
 - Dentition abnormalities
- Which of the above is/are associated with cleft palate?
- 1 only
 - 2 and 3 only
 - 1 and 3 only
 - 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:
- Doing re-embolectomy
 - Fasciotomy
 - Dye studies
 - Anticoagulant therapy
35. An air fluid level with dilated oesophagus and “bird beak” appearance in a barium swallow is diagnostic of:
- Achalasia cardia
 - Carcinoma oesophagus
 - Hiatus hernia
 - 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:
- T₂ N₁ M₁
 - T₁ N₂ M₁
 - T₂ N₂ M₁
 - T₁ N₁ M₁

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 intussusception 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> | <i>List II (description)</i> |
| A. Palmer's sign | 1. Bluish coloration of vagina in pregnancy |
| B. Braxton Hicks sign | 2. Rhythmic painless uterine contractions felt per abdomen in second trimester |
| C. Goodell's sign | 3. Softening of cervix in pregnancy |
| D. Chadwick sign | 4. Rhythmic uterine contractions felt in first trimester |

Code:

- | | A | B | C | 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*:
- Hemolysis
 - Elevated liver enzymes
 - Leucocytosis
 - Low platelet count
43. Predisposing factors of puerperial sepsis are following *except*:
- Multiparity
 - Repeated internal examinations specially in the case of premature rupture of membrane
 - Cases of manual removal of placenta
 - Placenta previa
44. Consider the following:
- Fetal pulmonary hypoplasia
 - Fetal chromosomal anomalies
 - Prostaglandin synthetase inhibitors
 - Amniotic fluid index of 15 cm
- Which of the above are associated with oligohydramnios?
- 1, 2 and 4
 - 2, 3 and 4
 - 1, 3 and 4
 - 1, 2 and 3
45. Surgical treatment of choice for a 20 year old woman with nulliparous uterine prolapsed is:
- Vaginal hysterectomy with pelvic floor repair
 - Abdominal hysterectomy with pelvic floor repair
 - Sling surgery
 - 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:
- Pelvic inflammatory disease
 - Missed abortion with infection
 - Ruptured ectopic pregnancy
 - 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

53.

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 G₂ P₁ A₀ 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
68. 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 G₆ P₅ L₅ 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:

<i>List I (Condition)</i>	<i>List II (Procedure)</i>
A. Hand prolapse	1. Lovset technique
B. Placental delivery	2. Decapitation
C. Extended arms of breech at delivery	3. Brandt Andrew's procedure
D. Deep transverse arrest	4. Vacuum extraction

Code:

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

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) *Aspergillus 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:
- Hypochromic microcytic anemia.
 - Methaenoglobinaemia.
 - Polycythemia vera.
 - Hemophilia.
91. Calcium content of milk is lowest in the milk of:
- Human
 - Goat
 - Cow
 - Buffalo
92. What is the time limit for registration of a birth?
- 7 days
 - 14 days
 - 21 days
 - 3 days
93. The following statements are correct for healthful school environment **except**:
- In the classroom, desks should be of minus type.
 - Per capita space for each student should be 6 sq. feet.
 - Combined window and door area should be 25% of the floor space.
 - One urinal should be provided for 60 students.
94. The following are the indicators for assessing the sensitivity of surveillance of polio **except**:
- A minimum of one case of AFP per 100,000 children under 15 years of age detected per year
 - A minimum of one case of AFP per 100,000 children under 5 years of age detected per year
 - At least 80% of the reporting sites should report each month even in the absence of cases
 - 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?
- More frequent negative sputum smears.
 - More false-negative tuberculin test results.
 - More extra-pulmonary tuberculosis.
 - More cavitating lesions in lungs as shown by chest X-ray.
- Select the correct answer using the code given below:
- 1 and 2 only
 - 3 and 4 only
 - 1, 2 and 3 only
 - 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.

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

Code:

- | | A | B | C | 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 |

101.

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) $(\text{True positives} \times 100) / (\text{True positives} + \text{False negatives}) \%$
- (b) $(\text{True negatives} \times 100) / (\text{True negatives} + \text{False positives}) \%$
- (c) $(\text{True negatives} \times 100) / (\text{True positives} + \text{True negatives}) \%$
- (d) $(\text{True positives} \times 100) / (\text{True negatives} + \text{False positives}) \%$

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 → Mosquito → 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 aegypti*
- (d) *Mansoniales*

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.