

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

T.B.C. : TDSP-T-SGOP

Serial No. 1060945



Test Booklet Series



TEST BOOKLET

Paper-II

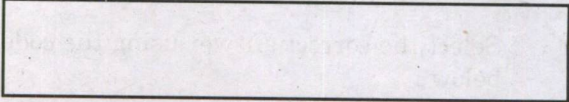


(Surgery, Gynaecology & Obstetrics, Preventive & Social Medicine)

Time Allowed : Two Hours

Maximum Marks : 250

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. 
DO NOT write **anything else** on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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SURGERY

1. Vibration white finger refers to :
- Buerger's disease
 - Raynaud's syndrome
 - Acrocyanosis
 - Takayasu disease
2. Which of the following are criteria for cancer screening ?
- Screening test should be sensitive and specific
 - Screening test should be acceptable to the screened population
 - The disease should be an uncommon one for screening to be effective
 - Disease should be recognisable at an early stage

Select the correct answer using the code given below :

- I, II and III
 - I, II and IV
 - I, III and IV
 - II, III and IV
3. A 45-year-old lady presents with complaints of fatigue, muscle weakness along with bilateral multiple renal calculi which were picked up on a routine ultrasound. Further workup revealed serum calcium levels of 11.4 mg%. What is the next best investigation required to arrive at a diagnosis ?
- MRI neck
 - Sestamibi scan
 - CECT head and neck
 - NCCT head and neck

4. Which of the following are the aetiological factors associated with a communicating hydrocephalus ?

- Post haemorrhagic
- Lesions within the ventricle
- CSF infection
- Raised CSF protein

Select the correct answer using the code given below :

- I, II and III
- I, II and IV
- I, III and IV
- II, III and IV

5. Which of the following statements are correct regarding a brain abscess ?

- Abscesses arise when the brain is exposed directly as a result of fracture or infection of air sinus.
- Presenting features include low grade fever, confusion, seizures and focal deficits.
- MRI with contrast is the initial imaging modality of choice.
- The aetiological agents include bacteria, fungi, protozoa and viruses.

Select the answer using the code given below :

- I, II and III
- I, II and IV
- I, III and IV
- II, III and IV

6. What is the most common type of tumour of Vermiform Appendix ?
- Epithelial tumour
 - Carcinoid tumour
 - Germ cell tumour
 - Papillary cell tumour
7. The earliest specific cystoscopic appearance of Bilharzial cystitis is :
- Sandy patches
 - Ulcers
 - Pseudo tubercles
 - Nodules
8. Which one of the following best describes craniosynostosis ?
- It is delayed fusion of one or more cranial sutures preventing growth perpendicular to the suture.
 - It is the premature fusion of one or more cranial sutures, preventing growth perpendicular to the suture.
 - It is the premature fusion of one or more cranial sutures, facilitating growth perpendicular to the suture.
 - It is delayed fusion of one or more cranial sutures facilitating growth perpendicular to the suture.
9. A 60-year-old female presents with pain in her back of recent onset, which has become severe of late. During the course of investigations, she was found to have lytic lesions in the vertebrae and ribs. Which of the following organs should be carefully screened now for detecting the primary cause of these lesions ?
- Small intestine
 - Large intestine
 - Adrenal
 - Breast
10. Which of the following statements are correct regarding Cauda equine syndrome ?
- Its presenting symptoms are perineal numbness, painless urinary retention and fecal incontinence.
 - Urgent investigation with MRI is required.
 - It is present most commonly in the 45-60 year age group.
 - Confirmed cases require early surgical decompression.
- Select the answer using the code given below :
- I, II and III
 - I, II and IV
 - I, III and IV
 - II, III and IV

11. The commonest site of pressure sore is :

- (a) Heel
- (b) Sacrum
- (c) Ischium
- (d) Occiput

12. Resection of which part of intestine does *not* significantly affect fluid and electrolyte balance ?

- (a) Ileum
- (b) Proximal jejunum
- (c) Distal jejunum
- (d) Colon

13. Good measure of systemic perfusion by ABG is by measurement of :

- (a) Bicarbonate
- (b) pH
- (c) Lactate and / or the base deficit
- (d) PCO_2

14. Which of the following are congenital abnormalities of the gall bladder ?

- I. The phrygian cap
- II. Floating gall bladder
- III. Absence of gall bladder
- IV. Spigelian gall bladder

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

15. Which of the following are functions of the gall bladder ?

- I. Reservoir for bile
- II. Production of bile
- III. Secretion of mucus
- IV. Concentration of bile

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

16. Which one of following statements is correct regarding Budd-Chiari Syndrome (BCS) ?

- (a) It principally affects young males.
- (b) Venous drainage of the liver is occluded by IVC thrombus.
- (c) Quadrate lobe (Segment 4 and 5) undergoes hypertrophy.
- (d) Abdominal discomfort and ascites are the main presenting features.

17. Which one of the following is correct regarding splenic artery aneurysm ?

- (a) It is twice as common in men.
- (b) It is usually situated in the main arterial trunk.
- (c) It is caused due to blunt trauma to the abdomen.
- (d) It is generally multiple in number.

18. Which of the following statements are correct regarding primary survey/management of traumatic head injury patient ?

- I. Ensure adequate oxygenation and circulation
- II. Exclude hypoglycaemia
- III. Check for mechanism of injury
- IV. Check pupil size and response

Select the answer using the code given below :

- (a) I, II and III
- (b) II, III and IV
- (c) I, II and IV
- (d) I, III and IV

19. Which of the following statements are correct regarding ABCDE of trauma care ?

- I. A stands for Airway with cervical spine protection
- II. B stands for Breathing and ventilation
- III. C stands for Control of massive external haemorrhage
- IV. D stands for Disability (Neurological status)

Select the answer using the code given below :

- (a) I, II and III
- (b) I, III and IV
- (c) I, II and IV
- (d) II, III and IV

20. Which of the following statements are correct regarding Inguinal hernias in children ?

- I. It is more common in full-term boys.
- II. It should be repaired promptly.
- III. It is always indirect.
- IV. It may frequently be transilluminant.

Select the answer using the code given below :

- (a) I, II and III
- (b) II, III and IV
- (c) I, II and IV
- (d) I, III and IV

21. The most common site of urethral opening in cases of hypospadias is :

- (a) Just proximal to the glans
- (b) On the penile shaft
- (c) At the junction of penile shaft and stratum
- (d) On the perineum

22. Which of the following about Minimal Access Surgery are correct ?

- I. Decreased intraoperative heat loss
- II. Improved visualization
- III. Increased chances of herniation
- IV. Improved mobility

Select the answer using the code given below :

- (a) I, II and III
- (b) I, III and IV
- (c) II, III and IV
- (d) I, II and IV

23. The maximum safe dose for Lignocaine (without adrenaline) as a local anaesthetic drug is :

- (a) 3 mg/kg
- (b) 5 mg/kg
- (c) 7 mg/kg
- (d) 9 mg/kg

24. Which of the following are the symptoms commonly experienced by patients with lymphoedema ?

- I. Swelling
- II. Burning sensation
- III. Intolerance to cold
- IV. Cramps

Select the correct answer using the code given below :

- (a) I, II and IV
- (b) I, II and III
- (c) II, III and IV
- (d) I, III and IV

25. Which of the following are the malignancies associated with lymphoedema ?

- I. Kaposi Sarcoma
- II. Squamous cell carcinoma
- III. Malignant melanoma
- IV. Leukaemia

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

26. Which of the following are the techniques commonly used to close the raw area after excision of a pilonidal sinus in order to avoid a midline wound ?

- I. Limberg procedure
- II. Y-V plasty
- III. Z-plasty
- IV. Karydakis procedure

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

27. A 45-year-old lady presents with history of a painless lump in the right breast since 1 month. On examination, the lump is hard, 3 × 4 cm in size in the upper outer quadrant and is not fixed to the skin or the underlying structures. The axilla reveals firm mobile lymph nodes (level I). Rest of systemic examination is normal. The clinical stage of this disease is :

- (a) $cT_1N_1M_x$
- (b) $cT_2N_1M_x$
- (c) $cT_3N_1M_x$
- (d) $cT_3N_2M_x$

28. Which one of the following is considered the gold standard for the diagnosis of oesophageal motility disorders ?

- (a) Upper GI endoscopy
- (b) Barium swallow
- (c) High resolution manometry
- (d) Contrast enhanced CT scan (CECT) oesophagus

29. Which of the following are considered aetiological factors for Adenocarcinoma oesophagus ?

- I. Barrett's oesophagus
- II. Gastro-oesophageal reflux
- III. Obesity
- IV. Alcohol intake

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

30. Consider the following statements regarding Plummer-Vinson syndrome :

- I. Findings include cervical oesophageal web, iron deficiency anaemia and dysphagia.
- II. It is a rare disease, mainly affecting middle-aged women.
- III. There is predisposition to postcricoid, cervical oesophageal cancer.
- IV. Treatment is usually surgical.

Which of the statements given above are correct ?

- (a) II, III and IV
- (b) I, II and IV
- (c) I, III and IV
- (d) I, II and III

31. Which of the following are correct regarding late dumping ?

- I. It usually occurs during the second hour after meal.
- II. It lasts for 30-40 minutes.
- III. Major symptoms are tremor, faintness, prostration
- IV. It is relieved by lying down.

Select the answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

32. Which one of the following statements is *not* correct regarding Gastric outlet obstruction associated with long standing peptic ulcer disease ?

- (a) Hypochloreaemic alkalosis is the usual metabolic abnormality in such cases.
- (b) Endoscopic biopsy is essential to exclude malignancy.
- (c) Medical therapy has no role in the treatment of this condition.
- (d) Operation is frequently required along with a drainage procedure.

33. The commonly used muscle relaxant with quickest onset of action and spontaneous recovery is :

- (a) Suxamethonium
- (b) Vecuronium
- (c) Atracurium
- (d) Rocuronium

34. The first imaging modality of choice for a 35-year-old lady, presenting to surgical emergency with complaints of colicky pain in right lower quadrant of abdomen and vomiting since last 2 days is :

- (a) Contrast CT abdomen
- (b) Non-contrast CT abdomen
- (c) Ultrasound abdomen
- (d) Plain X-ray abdomen erect view

35. Mallampati test is used for the assessment of :

- (a) Tongue size
- (b) Ability to protrude jaw
- (c) Breath hold time
- (d) Airway

36. Consider the following :

- I. Diabetes
- II. Hypertension
- III. Renal failure
- IV. Jaundice

Which of the above are the risk factors for post-operative wound dehiscence ?

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

37. If faced with a surgical emergency in a child of 15 years for whom no consent is available for life-saving surgery and no time for seeking authority from someone, the next step should be :

- (a) Conservative management till lawyer is available
- (b) Search for relatives or neighbours
- (c) Consent arrangement through Hospital Social Worker
- (d) Go ahead with surgery without consent

38. Which of the following information needs to be disclosed in order to establish valid consent for surgical treatment ?

- I. Condition and reasons why it warrants surgery
- II. Type of surgery proposed
- III. Unexpected hazards of proposed surgery
- IV. The surgical experience and expertise of the operating surgeon

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

39. A surgical department of a premier medical college conducted a study on rates of post-operative wound infection. The results of the study were negative for the proposed hypothesis. What should the department do with the results ?

- (a) Label them as worthless
- (b) Redo the study with a new hypothesis
- (c) Report the negative results
- (d) Redesign the study and increase the sample size

40. Which of the following statements are correct regarding sutures in surgery ?

- I. Barbed sutures have the advantage of eliminating the need for knots.
- II. Vertical mattress sutures help in eversion of wound edges.
- III. Aberdeen knot is used for continuous suturing.
- IV. Silk is preferred for subcuticular suturing.

Select the answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

GYNAECOLOGY & OBSTETRICS

41. Chadwick's sign describes :

- (a) the dusky hue of the vestibule and anterior vaginal wall visible at about 8th week of pregnancy
- (b) softening of cervix at 6th week of pregnancy
- (c) the abdominal and vaginal fingers apposed below the body of the uterus during bimanual examination
- (d) regular and rhythmic uterine contraction which can be elicited during bimanual examination at 4-8 weeks of pregnancy

42. Which of the following treatments are recommended for a pregnant woman suffering from sickle cell disease ?

- I. Folic acid 1 mg daily
- II. Azathioprine
- III. Penicillin prophylaxis
- IV. Thromboprophylaxis with low molecular weight heparin

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

43. Which of the following are contraindications to External Cephalic Version (ECV) in breech ?

- I. Pregnancy less than 36 weeks
- II. Multiple pregnancy
- III. Previous cesarean delivery
- IV. Rhesus isoimmunization

Select the correct answer using the code given below :

- (a) I, III and IV
- (b) II, III and IV
- (c) I, II and IV
- (d) I, II and III

44. Which of the following hematological findings are seen in pregnant women with thalassemia trait ?

- (a) Raised HbA₂ and low MCV
- (b) Low MCHC
- (c) Low serum total iron binding capacity
- (d) Low HbA₂ and raised MCV

45. The best drug for maintenance therapy of Systemic Lupus Erythematosus (SLE) during pregnancy is :

- (a) Hydroxychloroquine
- (b) Sulfasalazine
- (c) Tacrolimus
- (d) Progestins

46. Which of the following maternal complications can be seen in hyperemesis gravidarum ?

- I. Wernicke's encephalopathy
- II. Hepatic failure
- III. Hypoprothrombinemia
- IV. Convulsions

Select the correct answer using the code given below :

- (a) I, II, III and IV
- (b) I, III and IV only
- (c) I, II and IV only
- (d) II and III only

47. The commonest ovarian tumour seen during pregnancy is :

- (a) Benign cystic teratoma
- (b) Mucinous cystadenoma
- (c) Endometrioma
- (d) Adenocarcinoma ovary

48. Which of the following statements are correct regarding shoulder dystocia ?

- I. It can be predicted during early labour.
- II. Anencephaly is a risk factor.
- III. Turtle neck sign is present.
- IV. Episiotomy should always be given.

Select the answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

49. A primigravida at 38 weeks pregnancy was put on oxytocin drip in view of slow labour at the rate of 30 mlU/min by the newly appointed registrar. She complains of confusion and starts throwing fits. What electrolyte imbalance is expected to have happened in this case ?

- (a) Hypokalemia
- (b) Hyponatremia
- (c) Hypocalcemia
- (d) Hypernatremia

50. Which of the following factors favour posterior position of the vertex ?

- I. Anthropoid pelvis
- II. Low inclination pelvis
- III. Attachment of placenta on the anterior wall
- IV. Primary brachycephaly

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

51. Which of the following factors are associated with cord prolapse during labour ?

- I. Malpresentations
- II. Contracted pelvis
- III. Stabilizing induction
- IV. Prematurity

Select the correct answer using the code given below :

- (a) I, II, III and IV
- (b) I, II and IV only
- (c) I, II and III only
- (d) III and IV only

52. Detection of magnesium toxicity in a patient receiving magnesium sulphate is noticed by which of the following ?

- I. Loss of tendon reflexes
- II. Increased respiratory rate
- III. Chest pain, heart block
- IV. Cardiac arrest

Select the correct answer using the code given below :

- (a) I, III and IV
- (b) II and IV only
- (c) I and III only
- (d) III and IV only

53. Which one of the following is correct regarding postpartum psychosis ?

- (a) There is often no family history of psychosis.
- (b) Its onset is usually within 4 days of delivery.
- (c) Recurrence rate in subsequent pregnancy is 60-70%.
- (d) Electro convulsive therapy is the first treatment of choice.

54. Which of the following are correct in the treatment of cracked nipple ?

- I. Correct attachment (Latch on) will provide immediate relief from pain and rapid healing.
- II. If pain, mother should use breast pump and the infant is fed with the expressed milk.
- III. Miconazole lotion is applied over the nipple as well as in the baby's mouth if there is oral thrush.

Select the answer using the code given below :

- (a) I and II only
- (b) II and III only
- (c) I and III only
- (d) I, II and III

55. Which of the following are correct regarding puerperal blues ?

- I. Its incidence is around 50%.
- II. There is no specific metabolic or endocrine derangement.
- III. Treatment is reassurance and psychological support.

Select the answer using the code given below :

- (a) I and II only
- (b) II and III only
- (c) I and III only
- (d) I, II and III

56. The Matthews Duncan process has been described for :

- (a) marginal separation of placenta in normal labour
- (b) central separation of placenta in normal labour
- (c) controlled contraction in active management of third stage of labour
- (d) reposition of acute inversion of uterus following vaginal delivery

57. A PILI lady after 4 hours of delivery is suffering from persistent, severe pain in the perineal region, rectal tenesmus, bearing down feeling and retention of urine. The probable diagnosis is :

- (a) Cervical tear
- (b) Vulval hematoma
- (c) Supralelevator hematoma
- (d) Complete perineal tear

58. According to WHO Intrapartum Care Guidelines 2018, which one of the following is correct about duration of first stage labour ?

- (a) Duration of latent phase of primigravida has not been established
- (b) Duration of active stage of multigravida should not exceed 6 hours
- (c) Duration of active stage of primigravida should not exceed 8 hours
- (d) Duration of active stage of primigravida should not exceed 18 hours

59. According to WHO Intrapartum Care Guidelines 2018, which of the following are correct about birthing position ?

- I. For a woman without epidural analgesia, adoption of birthing position is individual woman's choice.
- II. For a woman without epidural analgesia, upright birthing position may be adopted.
- III. For a woman with epidural analgesia, lithotomy and supine position only are recommended.

Select the answer using the code given below :

- (a) I and II only
- (b) II and III only
- (c) I and III only
- (d) I, II and III

60. Twin pregnancy should have ultrasound at 10-13 weeks to confirm which of the following ?

- I. Number of foetus
- II. Viability of foetus
- III. Chorionicity of twins
- IV. Malformation in either foetus

Select the correct answer using the code given below :

- (a) I, II and III only
- (b) I and III only
- (c) II and IV only
- (d) I, II, III and IV

61. Which of the following are neonatal complications of maternal diabetes during pregnancy ?

- I. Hyperbilirubinemia
- II. Hypercalcemia
- III. Cardiomyopathy
- IV. Hypoglycemia

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

62. Which of the following are the predictive factors for Fetal Growth Restriction (FGR) ?

- I. Low level of maternal 1st trimester Beta hCG
- II. Abnormal uterine artery Doppler at 20-24 weeks of pregnancy
- III. Fetal echogenic bowel on ultrasound
- IV. Maternal medical disorder

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

63. Which of the following is the primary surveillance tool in the Growth Restricted Fetus ?

- (a) Uterine artery doppler
- (b) Umbilical venous pulsation
- (c) Middle cerebral artery doppler
- (d) Umbilical artery doppler

64. Glands of Cloquet are :

- (a) lymphatic drainage of vulva
- (b) lymphatic drainage of cervix
- (c) lymphatic drainage of uterus
- (d) lubricating glands of vagina

65. Causes of AUB are subdivided by the acronym PALM-COEIN. What are the characteristics of PALM causes ?

- I. Structural lesions
- II. Diagnosed by ultrasound
- III. Confirmed by histopathology

Select the correct answer using the code given below :

- (a) I and II only
- (b) I and III only
- (c) I, II and III
- (d) II and III only

66. Daily suppressive therapy for HSV-1 and HSV-2 is :

- (a) Valacyclovir 1 g once daily
- (b) Acyclovir 400 mg once daily
- (c) Acyclovir 400 mg thrice daily
- (d) Valacyclovir 1 g twice daily

67. Which of the following are the primary organisms involved in PID ?

- I. *N. gonorrhoeae*
- II. *Chlamydia*
- III. *Mycoplasma hominis*
- IV. *Candida albicans*

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

68. What are the characteristics of dermoid cyst ?

- I. Germ cell ovarian tumour
- II. Bilateral in 15-20% cases
- III. Torsion is common
- IV. Rupture is common

Select the correct answer using the code given below :

- (a) I and III only
- (b) II and IV only
- (c) II, III and IV
- (d) I, II and III

69. Which one of the following is **not** a differential diagnosis of chronic inversion of uterus ?

- (a) Fibroid polyp
- (b) Fungating cervical malignancy
- (c) Cervical prolapse
- (d) Gartner's cyst

70. A 28-year-old P₂L₂ presents to Gynaecology OPD with complaints of malodorous vaginal discharge. On examination, the discharge was found to be grayish-white in colour and adherent to vaginal walls. Which one of the following is a bedside diagnostic criterion for the causative organism ?

- (a) Presence of RBCs in vaginal smear
- (b) Vaginal pH < 4.5
- (c) Positive 10% potassium hydroxide test
- (d) Positive NAAT test

71. Which of the following statements about hysterosalpingography, as an operative procedure, are correct ?

- I. Tubal patency assessment following tuboplasty operation
- II. Diagnosis of uterine synechiae
- III. Detection of IUD
- IV. Diagnosis of subserosal fibroid

Select the answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

72. Which of the following are indications of endometrial sampling ?

- I. Endometrial tuberculosis
- II. Endometrial polyp
- III. Postmenopausal bleeding
- IV. Abnormal uterine bleeding

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

73. A 30-year-old P₃L₃ female presents in Gynaecology emergency with acute abdominal pain and vaginal bleeding of short duration (1 hour). She gives history of tubal ligation after birth of third child. On examination, right adnexal tenderness was found and os was closed. What is the probable diagnosis ?

- (a) Ectopic pregnancy
- (b) Pelvic inflammatory disease
- (c) Appendicitis
- (d) Complete abortion

74. Which of the following statements are correct regarding audit in Obstetrics and Gynaecology ?

- I. It can replace the out of date clinical practices with better ones.
- II. It is an efficient educational tool.
- III. It should be based on scientific evidences with facts and figures.
- IV. It is not labour-intensive.

Select the answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

75. Which of the following are poor prognostic factors in endometrial adenocarcinoma ?

- I. Estrogen and progesterone receptor positivity
- II. HER-2/neu gene expression
- III. Histologic types papillary serous or clear cell carcinoma
- IV. Aneuploid tumours

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

76. For which of the following conditions, surgery is indicated in a case of Fibroid Uterus ?

- I. Symptomatic and failed medical management
- II. Size > 12 weeks
- III. Pedunculated fibroid

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I and II only
- (c) II and III only
- (d) I and III only

77. Which of the following is measured without any straining while examination under POP-Q system ?

- (a) TVL
- (b) Pb
- (c) GH
- (d) Point D

78. Which of the following are criteria for opting Le Fort's operation for surgical correction of pelvic organ prolapse ?

- I. Procidentia in old age
- II. Unfit for long duration surgery
- III. Associated uterine pathology
- IV. Coital function no longer required

Select the correct answer using the code given below :

- (a) I, III and IV
- (b) I and II only
- (c) II, III and IV
- (d) I, II and IV

79. Opening of Bartholin's duct is in the :

- (a) vestibule outside the hymen at the junction of the anterior $2/3^{\text{rd}}$ and posterior $1/3^{\text{rd}}$ in the groove between the hymen and labium minus
- (b) groove between labia majora and labia minora
- (c) superficial perineal pouch at the junction of anterior $1/3^{\text{rd}}$ and post $1/3^{\text{rd}}$
- (d) periurethral region in anterior $1/3^{\text{rd}}$ of labia minora

80. Which of the following are Amsel's diagnostic criteria ?

- I. Vaginal pH > 4.5
- II. Positive Whiff test
- III. Presence of clue cells > 20%
- IV. Positive bacterial vaginal culture

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

PREVENTIVE & SOCIAL MEDICINE

81. Which of the following indicators are considered for computing "Physical Quality of Life Index" (PQLI) ?

- I. Infant mortality
- II. Life expectancy at age one
- III. Literacy
- IV. Per capita income

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

82. Which one of the following terms is an "all-or-none phenomenon" and is best described as termination of all transmission of infection by extermination of the infectious agent ?

- (a) Disease control
- (b) Disease elimination
- (c) Disease eradication
- (d) Disease surveillance

83. "Objectives are set forth for different units and subunits, each of which prepares its own plan of action, usually on a short-term basis." The definition best sums up which one among the following terms ?

- (a) Input-Output analysis
- (b) Personnel management
- (c) Management by objectives
- (d) Work sampling

84. The Panchayati Raj is a three-tier structure of rural local self-government in India with the three levels being village, block and district. Consider the following bodies :

- I. Gram Sabha
- II. Gram Panchayat
- III. Nyaya Panchayat
- IV. Panchayat Samiti

Which of the above bodies are present at the village level ?

- (a) I and II only
- (b) III and IV only
- (c) I, II and III
- (d) II, III and IV

85. Many patients with unexplained rash and fever were reported from a village close to the Primary Health Centre (PHC). What is the first step in initiating the investigation of such an epidemic ?

- (a) Rapid search for all cases
- (b) Verification of diagnosis
- (c) Confirm existence of epidemic
- (d) Defining the population at risk

86. John Snow's discovery that cholera is a waterborne disease was the outcome of which type of study ?

- (a) Uncontrolled trial
- (b) Natural experiment
- (c) Risk factor trial
- (d) Trial of aetiological agent

87. Given below is a table showing diagnosis of Myocardial infarction by ECG :

ECG results	Myocardial infarction	
	Present	Absent
Positive	45	8,000
Negative	5	32,000
Total	50	40,000

Consider the following statements :

- I. Sensitivity is 90%.
- II. Specificity is 80%.

Which of the statements given above is/are correct ?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

88. Data obtained from hospital records is **not** a representative sample of the population. What are the reasons for this ?

- I. Mild cases and subclinical cases may be missed.
- II. Population served by a hospital usually cannot be defined.
- III. Cost of hospital care is not recorded.
- IV. Admission policy for cases can vary from hospital to hospital.

Select the correct answer using the code given below :

- (a) I and II only
- (b) II and III only
- (c) I, II and IV
- (d) II, III and IV

89. Of the following ocular manifestations of Vitamin A deficiency, the first sign that can be clinically seen is :

- (a) Bitot's spots
- (b) Nyctalopia
- (c) Conjunctival Xerosis
- (d) Corneal Xerosis

90. The bony deformity of 'pigeon chest' in children occurs due to deficiency of :

- (a) Vitamin A
- (b) Vitamin D
- (c) Vitamin E
- (d) Vitamin K

91. Which one among the following essential amino acids is usually the "limiting" amino acid in most of the pulses ?

- (a) Lysine
- (b) Methionine
- (c) Threonine
- (d) Valine

92. Which among the following are defence mechanisms adopted when an individual is faced with problems or failures ?

- I. Rationalization
- II. Regression
- III. Projection
- IV. Replacement

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

93. What are the reasons for choosing coliform organisms as indicators of faecal pollution of water rather than the waterborne pathogens directly ?

- I. They are present in great abundance in the human intestine and excreted in great numbers in faeces.
- II. They have lower resistance to forces of natural purification.
- III. They survive lesser than the pathogens.
- IV. They are easily detected by culture methods.

Select the correct answer using the code given below :

- (a) I and IV
- (b) II and III
- (c) I only
- (d) IV only

94. The Ministry of Health and Family Welfare has launched a programme to meet the challenge of high prevalence of anaemia amongst adolescent boys and girls. Consider the following statements in relation to the key interventions being undertaken :

- I. It entails supervised weekly administration of 100 mg elemental iron and 500 µg folic acid.
- II. These weekly iron-folic acid supplements are administered by using a fixed day approach.
- III. It entails supervised administration of Albendazole 400 mg every three months for control of helminth infestation.

Which of the statements given above is/are correct ?

- (a) I only
- (b) II only
- (c) I and III
- (d) I and II

95. The National Framework for Malaria Elimination in India (2016-2030) has defined certain milestones and targets. Among the following, which is the specific target that has to be met by the year 2027 ?

- (a) All states and UTs must reduce API to less than 1 case per 1000 population at risk.
- (b) All states and UTs must establish fully functional malaria surveillance to track, investigate and respond to each case.
- (c) Entire country is to have no indigenous cases and no deaths due to malaria.
- (d) Entire country has to initiate the process for certification of malaria elimination.

96. Under the Pradhan Mantri Surakshit Matritva Abhiyan, the beneficiaries are being provided with a minimum package of antenatal care including certain investigations and drugs on a fixed day of every month. Which day of the month is specified for this purpose ?

- (a) 1st day of the month
- (b) 7th day of the month
- (c) 9th day of the month
- (d) 15th day of the month

97. "Small for Date" (SFD) babies, also known as "small for gestational age" babies, weigh less than what percentile for the gestational age ?

- (a) 2nd percentile
- (b) 5th percentile
- (c) 10th percentile
- (d) 20th percentile

98. In the most widespread calculation of Stillbirth Rate, the numerator is defined as foetal deaths weighing over 'X' gram at birth, during the year. Which one of the following is the correct value for 'X' ?

- (a) 500
- (b) 750
- (c) 1000
- (d) 1500

99. While performing triage in response to a disaster emergency, commonly an internationally accepted four-colour code system is used. Which one among the following four-colour categories represents the highest priority for emergency response ?

- (a) Black
- (b) Green
- (c) Red
- (d) Yellow

100. Consider the following statements with regard to Ice-Lined Refrigerator (ILR) employed for storing vaccines at the sub-district level :

- I. These types of refrigerators are top-opening.
- II. Based on the temperature zone, the inside of ILRs can be divided into 3 parts.
- III. The upper part of ILR is cooler compared to the lower part.
- IV. Vaccines should never be kept directly on the floor of the ILR as they can get damaged.

Which of the statements given above are correct ?

- (a) I and II
- (b) II and III
- (c) III and IV
- (d) I and IV

101. Which one of the following is the major contributor to the total energy intake, in terms of energy provided, in an average Indian diet ?

- (a) Fats
- (b) Carbohydrates
- (c) Proteins
- (d) Vitamins

102. Consider the following with regard to Amino Acids :

- I. Essential Amino Acids are those that the body cannot synthesize and they must be obtained from dietary proteins.
- II. Not just the Essential Amino Acids, Non-essential Amino Acids are also needed by the body for synthesis of tissue proteins.
- III. Unless a protein contains all the Essential Amino Acids in amounts corresponding to human needs, a protein is said to be biologically incomplete.
- IV. Animal proteins are rated superior to vegetable proteins.

Of the above statements, how many are correct ?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

103. Which of the following strategies were encouraged by the UNICEF under its 'GOBI Campaign'?

- I. G for growth charts to better monitor child development
- II. O for oral rehydration to treat all mild and moderate dehydration
- III. B for better and continuous evaluation of children up to 5 years of age
- IV. I for immunization against measles, diphtheria, polio, pertussis, tetanus and tuberculosis

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) I, III and IV
- (d) II, III and IV

104. What is the limit of daily exposure of noise that people can tolerate without substantial damage to their hearing ?

- (a) 65 dB
- (b) 85 dB
- (c) 105 dB
- (d) 125 dB

105. How much illumination is recommended by the Illuminating Engineering Society for the general office work ?

- (a) 100 lux
- (b) 200 lux
- (c) 400 lux
- (d) 900 lux

106. Dietary fibres have :

- (a) anabolic effect
- (b) catabolic effect
- (c) no metabolic effect
- (d) sometimes anabolic and sometimes catabolic effect, depending on the type

107. Egg proteins are considered to be the best among food proteins because :

- I. of their biological value
- II. of their digestibility
- III. they contain all the essential amino acids
- IV. their calorie content is higher than in proteins of vegetable sources

Which of the statements given above is/are correct ?

- (a) I only
- (b) I, II and III
- (c) II, III and IV
- (d) I, III and IV

108. On a chest radiograph, which of the following occupational diseases is most likely to be mistaken as a case of tuberculosis of lungs ?

- (a) Anthracosis
- (b) Silicosis
- (c) Siderosis
- (d) Byssinosis

109. With which variety of asbestos, Mesothelioma has been shown to have a strong association ?

- (a) Amosite
- (b) Anthrophyllite
- (c) Crocidolite
- (d) Chrysolite

110. Under the Biomedical Waste Management Rules 2016, human anatomical waste is to be carried in which colour plastic bags ?

- (a) Yellow
- (b) Red
- (c) Blue
- (d) Black

111. As an index of thermal comfort, the 'Corrected Effective Temperature' is considered to be an improvement over 'Effective Temperature'. It deals with which of the following factors ?

- I. Air velocity
- II. Humidity
- III. Mean radiant heat
- IV. Sweat rate

Select the correct answer using the code given below :

- (a) I, III and IV
- (b) II, III and IV
- (c) I, II and III
- (d) I and II only

112. In a child who has not received any dose of DPT and OPV immunization, up to what age can these vaccines be given under the Universal Immunization Programme ?

- (a) DPT up to 7 years of age and OPV up to 5 years of age
- (b) DPT up to 8 years of age and OPV up to 6 years of age
- (c) DPT up to 10 years of age and OPV up to 7 years of age
- (d) DPT up to 12 years of age and OPV up to 10 years of age

113. A traveller who has passed through a yellow fever endemic zone and does not possess a Certificate of Vaccination against yellow fever, enters a yellow fever 'receptive' area. For how long from the date of leaving the infected area must this traveller be placed on quarantine in a mosquito-proof ward ?

- (a) 6 days
- (b) 7 days
- (c) 8 days
- (d) 10 days

114. Under the Employees' State Insurance Act 1948, if the sickness of an insured person is duly certified by an Insurance Medical Officer, periodical cash payment benefit is payable for a maximum period of how many days in any continuous period of 365 days, as Sickness Benefit ?

- (a) 30 days
- (b) 61 days
- (c) 91 days
- (d) 121 days

115. Consider the following statements regarding Wernicke's encephalopathy :

- I. It is caused by niacin deficiency.
- II. It is often seen in alcoholics.
- III. Ophthalmoplegia, polyneuritis and ataxia are some of its characteristic features.
- IV. It occurs occasionally in people who fast.

Which of the statements given above are correct ?

- (a) I, II and III
- (b) II, III and IV
- (c) I, III and IV
- (d) I, II and IV

116. A housefly transmits any infectious agent by which of the following methods, most commonly ?

- (a) Propagative transmission
- (b) Mechanical transmission
- (c) Cyclo-propagative transmission
- (d) Cyclo-developmental transmission

117. In the case of a 7-year-old school-going child, which would be the most appropriate indicator to measure the current nutritional status ?

- (a) Birth weight
- (b) Mid upper arm circumference
- (c) Head circumference
- (d) Weight for height

118. Consider the following statements with regard to Home Based Newborn Care (HBNC) :

- I. Early detection and special care of pre-term newborns is one of the major objectives of HBNC.
- II. ANM is the main person involved in the delivery of HBNC.
- III. Supporting the family for adoption of healthy practices helps achieve the key objectives of HBNC.
- IV. The primary aim of HBNC is to improve newborn survival.

Which of the statements given above are correct ?

- (a) I and II only
- (b) II and III only
- (c) I, III and IV only
- (d) I, II, III and IV

119. Which of the following conditions are transmitted as a recessive, sex-linked trait ?

- I. Retinitis pigmentosa
- II. Colour blindness
- III. Cystic fibrosis
- IV. Duchenne muscular dystrophy

Select the correct answer using the code given below :

- (a) I, II and III
- (b) I, II and IV
- (c) II, III and IV
- (d) I, III and IV

120. Under which name (brand) does the National AIDS Control Organisation provide the STI/RTI services ?

- (a) Antara Clinic
- (b) Chhaya Clinic
- (c) Sathi Clinic
- (d) Suraksha Clinic

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