

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

T.B.C. : SDFJ-B-FGT

Test Booklet Series

Serial No.

0049657

TEST BOOKLET
SURGERY, GYNAECOLOGY &
OBSTETRICS, PREVENTIVE
& SOCIAL MEDICINE

A

Paper II

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 CODE 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 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 **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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1. Which of the following are types of wound healing ?

1. Primary Intention
2. Secondary Intention
3. Tertiary Intention
4. Quaternary Intention

Select the correct answer using the code given below :

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

2. A 50 year old female presents to the emergency with pain, swelling and redness over the left foot following a trivial trauma 3 days back. On examination, the swelling over the left foot is poorly localised; local tenderness and erythema are present and crepitus is absent; distal pulsations are palpable. The most likely clinical diagnosis is

- (a) Compartment syndrome
- (b) Cellulitis
- (c) Abscess
- (d) Fasciitis

3. Which one of the following is NOT associated with BRCA1/BRCA2 genes ?

- (a) Breast cancer
- (b) Ovarian cancer
- (c) Prostate cancer
- (d) Liver cancer

4. The malignancy associated with Stewart-treves syndrome is

- (a) Lymphangiosarcoma
- (b) Malignant melanoma
- (c) Basal cell carcinoma
- (d) Liposarcoma

5. A 60 year old lady underwent total abdominal hysterectomy. On the 3rd post operative day she suddenly became breathless while returning from washroom. Her blood pressure recorded was 80/50 mm of Hg. The most probable diagnosis is

- (a) Postural hypotension
- (b) Secondary haemorrhage
- (c) Thromboembolism
- (d) Transient ischaemic attack

6. A 52 year old female underwent MRM (Modified Radical Mastectomy). After few years, she developed lymphedema of the ipsilateral arm. Which of the following malignancy can develop in her arm ?

- (a) Lymphangiosarcoma
- (b) Malignant Melanoma
- (c) Lymphoma
- (d) Malignant fibrous histiocytoma

7. A gentleman of 60 years presented with a brawny swelling of the sub-mandibular region with inflammatory oedema of mouth and putrid halitosis. Most likely he is suffering from
- Tubercular adenitis
 - Chronic lymphadenitis
 - Acute lymphadenitis
 - Ludwig's angina
8. A 25 year old female patient with previous history of neck irradiation presents with thyroid swelling for last 6 months. The patient is clinically euthyroid. On examination, the right lobe of thyroid gland is enlarged with presence of ipsilateral cervical lymphadenopathy. The most probable clinical diagnosis in this patient is
- Medullary carcinoma thyroid
 - Papillary carcinoma thyroid
 - Lymphoma
 - Follicular carcinoma thyroid
9. An infant presented in the surgical OPD with complaints of a unilateral swelling in the neck. The swelling was soft, cystic, partially compressible and brilliantly transilluminant. The most probable diagnosis is
- Branchial fistula
 - Branchial cyst
 - Cystic Hygroma
 - Thyroglossal cyst
10. Serum thyroglobulin level is an important tumor marker for
- Medullary carcinoma thyroid
 - Papillary carcinoma thyroid
 - Anaplastic carcinoma thyroid
 - Thyroid lymphoma
11. A 43 year old woman presented with serous discharge from a single duct of the nipple of her right breast which was sent for evaluation. She is unlikely to be suffering from
- Fibrocystic disease
 - Intraductal Papilloma
 - Duct Ectasia
 - Carcinoma
12. An eight month old male child is brought to the emergency with recurrent episodes of screaming and drawing up of legs. The child appears to be listless in between the attacks. Local examination of abdomen reveals feeling of emptiness in the right iliac fossa and blood stained mucus is found on the finger on per rectal examination. The most probable clinical diagnosis in this child is
- Caecal volvulus
 - Acute intussusception
 - Rectal prolapse
 - Midgut volvulus

13. Which of the following statements regarding Ogilvie's syndrome are correct ?

1. It presents as acute large bowel mechanical obstruction
2. Marked caecal dilatation is a common feature on X-ray abdomen
3. Caecal perforation is a well recognized complication of this condition
4. Intravenous Neostigmine is used for the treatment of this condition

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

14. Which of the following statements regarding Carcinoid tumour are correct ?

1. Terminal ileum is the most common site for these tumours in the gastrointestinal tract
2. These tumors arise from Kulchitsky cells situated at the base of intestinal crypts

3. 5-Hydroxytryptamine is the most common vasoactive peptide produced by these tumors

4. Serum chromogranin A is a useful marker for disease recurrence

Select the correct answer using the code given below :

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

15. In familial adenomatous polyposis, which of the following all are true ?

1. Presence of >100 colorectal polyps
2. Positive family history
3. Autosomal Recessive inheritance
4. Genetic mutation on Chromosome 5

Select the correct answer using the code given below :

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

16. A 50 year old male patient presents to the emergency with sudden onset of upper abdominal pain, nausea, vomiting and haematemesis. On examination, PR = 106/min, BP = 100/70 mm Hg and pallor is present. CECT abdomen reveals a large exophytic tumor of size 13 × 8 cm at the fundus of the stomach. On upper GI endoscopy, the mucosa overlying the tumor is intact. The staining for CD117 in the upper GI endoscopic biopsy is positive. The most probable clinical diagnosis in this patient is

- (a) Gastric lymphoma
- (b) Gastrointestinal stromal tumor
- (c) Carcinoid tumor
- (d) Carcinoma stomach

17. Which of the following is NOT a classical symptom of acute appendicitis?

- (a) Anorexia
- (b) Periumbilical colic
- (c) Constipation
- (d) Nausea

18. Among the extra intestinal manifestations of Crohn's disease which one of the following is related to the disease activity?

- (a) Eye complications (Iritis/Uveitis)
- (b) Renal calculi
- (c) Primary sclerosing cholangitis
- (d) Chronic active hepatitis

19. The Model for End Stage Liver Disease (MELD) score includes which of the following variables?

- 1. Serum bilirubin
- 2. Serum albumin
- 3. Serum creatinine
- 4. International Normalised Ratio (INR)

Select the correct answer using the code given below :

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

20. Which of the following statements with regard to Enteric perforation are correct?

- 1. Salmonella typhi is the causative organism for Enteric fever
- 2. Enteric perforation characteristically occurs during third week of illness
- 3. Typhoid ulcers are placed transversely to the long axis of the gut
- 4. Terminal ileum is the most common site for enteric perforation

Select the correct answer using the code given below :

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

21. A 35 year old male patient with enteric fever presents to the emergency with sudden onset of generalised abdominal pain, abdominal distension, nausea, vomiting and constipation for last 48 hours. On examination, patient is dehydrated with PR = 110/min and BP = 100/60 mm Hg. There is generalised tenderness, rebound tenderness present and board like rigidity on per-abdomen examination. The most likely complication of enteric fever in this patient is

- (a) Small bowel enteritis
- (b) Small bowel perforation
- (c) Small bowel obstruction
- (d) Cholecystitis

22. Which of the following are options for management of a pancreatic pseudocyst ?

- 1. Pancreaticoduodenectomy
- 2. Cystogastrostomy
- 3. Percutaneous drainage
- 4. Endoscopic drainage

Select the correct answer using the code given below :

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

23. Which of the following statements regarding hepatic adenomas are correct ?

- 1. They are almost exclusively seen in females aged 25-50 years
- 2. They are associated with use of oral contraceptive pills
- 3. They do not have any malignant potential
- 4. Majority are detected incidentally on imaging

Select the correct answer using the code given below :

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

24. Which of the following are probable sites for Ectopic pancreas ?

- 1. Submucosa of the stomach and duodenum
- 2. Liver
- 3. Small bowel mesentery
- 4. Splenic hilum

Select the correct answer using the code given below :

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

25. Which one of the following statements regarding Cantlie's line is correct ?

- (a) Runs between gall bladder fossa and right hepatic vein
- (b) Runs between gall bladder fossa and right branch of portal vein
- (c) Runs between gall bladder fossa and middle hepatic vein
- (d) Runs between gall bladder fossa and left branch of portal vein

26. Which of the following are indications of splenectomy ?

- 1. Pseudomyxoma peritonei
- 2. Trauma
- 3. Idiopathic thrombocytopenic purpura (ITP)
- 4. Hypersplenism

Select the correct answer using the code given below :

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

27. A 45 year old female patient presents with a painless firm abdominal swelling of size 10×8 cm near the umbilicus. The swelling can be moved freely in a plane at right angle to the line of attachment of the mesentery. The most probable clinical diagnosis in this patient is

- (a) Dermoid cyst
- (b) Ovarian cyst
- (c) Mesenteric cyst
- (d) Hydatid cyst

28. A 45 year old male patient, a known case of left inguinal hernia presents to the emergency with an acute onset of pain abdomen associated with nausea, vomiting and abdominal distension. His pulse rate is 102/min, BP is 100/70 mm Hg and respiratory rate is 24/min. On local examination, the skin overlying the swelling is tense and erythematous. There is localized tenderness over the swelling; the swelling is irreducible with absence of cough impulse. The most probable clinical diagnosis in this patient is

- (a) Obstructed hernia
- (b) Strangulated hernia
- (c) Incarcerated hernia
- (d) Irreducible hernia

29. Mayo's repair is done for

- (a) Inguinal hernia
- (b) Femoral hernia
- (c) Umbilical hernia
- (d) Incisional hernia

30. In Pringle Manoeuvre, clamping includes which of the following ?

1. Common Bile Duct
2. Hepatic artery
3. Portal vein
4. Inferior Vena Cava

Select the correct answer using the code given below :

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

31. A patient with suspected head injury is brought to the emergency following road traffic accident. At the time of examination, patient is conscious with GCS 14/15 and stable vitals. There is bleeding from right ear and CSF leak from nose. Bruising is present behind the right ear. The most probable clinical diagnosis in this patient is

- (a) Extradural haematoma
- (b) Fracture of the base of skull
- (c) Cerebral concussion
- (d) Traumatic subarachnoid haemorrhage

32. The commonest organism causing Suppurative Otitis Media is

- (a) Streptococcus pneumonia
- (b) Staphylococcus aureus

(c) Acinetobacter Spp

(d) Escherichia coli

33. A patient of road traffic accident presents to the emergency with increasing restlessness and difficulty in breathing. The respiratory rate is 26 breaths/minute; there are distended neck veins; trachea is deviated to the right side with hyper-resonant note and absence of breath sounds on the left side. Which of the following statements are correct ?

1. The most probable clinical diagnosis is left tension pneumothorax
2. Immediate chest decompression using wide bore cannula in left second intercostal space should be done
3. Immediate chest X-ray should be done to confirm the clinical diagnosis
4. Definitive chest tube insertion in left fifth intercostal space should be done

Select the correct answer using the code given below :

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

34. Positron Emission Tomography (PET) used in Preoperative staging of Gastro Oesophageal tumours is to detect

- (a) Distant metastatic disease
- (b) Extension into stomach
- (c) Local spread
- (d) Lymph node status

35. Which of the following are correct about ectopic ureters ?

- 1. They are more common in males
- 2. They drain the upper pole of kidney
- 3. They are associated with duplex ureter
- 4. They may cause incontinence

Select the correct answer using the code given below :

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

36. Which one of the following is a Nephrotoxic anaesthetic agent ?

- (a) Methoxyflurane
- (b) Isoflurane
- (c) Halothane
- (d) Nitrous oxide

37. A comatose patient after sustaining severe head injury has been admitted in neurosurgical ICU. Which of the following parameters should ideally be maintained in this patient ?

- 1. $p\text{CO}_2 = 4.5 - 5.0$ kPa (33-38 mm Hg)
- 2. MAP = 80 – 90 mm of Hg
- 3. $p\text{O}_2 > 11$ kPa (> 80 mm Hg)
- 4. $\text{Na}^+ < 130$ meq/L

Select the correct answer using the code given below :

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

38. Untidy wounds are characterised by which of the following ?

- 1. Crushed or avulsed tissues
- 2. Contamination wound
- 3. Devitalised tissue
- 4. No loss of tissue

Select the correct answer using the code given below :

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

39. Which one of the following statements regarding the composition of common crystalloid solutions is correct ?

- (a) Normal saline contains 100 meq/L of Na
- (b) Hartmann's solution contains 111 meq/L of Cl
- (c) Normal saline contains 130 meq/L of Cl
- (d) Hartmann's solution contains 111 meq/L of Na

40. Perioperative benefit from transfusion is with a haemoglobin level of

- (a) < 6 gm/dl
- (b) 6-8 gm/dl
- (c) 8-10 gm/dl
- (d) > 10 gm/dl

41. Ideal weight gain during pregnancy for a woman with normal BMI should be

- (a) 7 kg
- (b) 11-16 kg
- (c) 18 kg
- (d) More than 18 kg

42. Blood volume increases during pregnancy above nonpregnant level at 30-34 weeks

- (a) by 10-20 per cent
- (b) by 25-30 per cent
- (c) by 40-50 per cent

(d) Blood volume does not increase at all

43. Which of the following are contraindications to external cephalic version in antenatal management of breech presentation ?

1. Antepartum haemorrhage
2. Multiple pregnancy
3. Reactive Non Stress Test
4. Severe oligohydramnios

Select the correct answer using the code given below :

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

44. Antepartum haemorrhage is defined as bleeding from genital tract

- (a) Before 20 weeks of pregnancy
- (b) Before 24 weeks of pregnancy
- (c) After 28 weeks of pregnancy
- (d) After 34 weeks of pregnancy

45. Which one of the following is NOT a risk factor for pre-eclampsia ?

- (a) Primigravida
- (b) Obesity
- (c) Pre-existing vascular disease
- (d) Placenta previa

46. What are Spiegelberg's criteria for diagnosis of ovarian pregnancy ?

1. Tube on the affected side must be intact
2. Gestational sac must be in the position of ovary
3. Gestational sac is connected to uterus by ovarian ligament
4. Ovarian tissue must be detected on the wall on histological examination

Select the correct answer using the code given below :

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

47. Which one of the following statements regarding fetal well being is NOT correct ?

- (a) Daily fetal movement count is a simple reliable method of fetal well being
- (b) Modified Biophysical profile includes Non-stress test and fetal breathing
- (c) Mothers perceive 88% of fetal movements
- (d) Healthy fetus should have minimum of 10 movements in 12 hours period

48. Which of the following statements are correct with respect to antenatal USG examination ?

1. It helps in detecting gross fetal anomalies
2. It helps in identifying multiple pregnancies
3. It helps in identifying viable pregnancy
4. Best dating is possible with third trimester ultrasound scan

Select the correct answer using the code given below :

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

49. During pregnancy iron supplementation is needed for
- all pregnant mothers from 16 weeks onwards
 - only those pregnant mothers who have Hb < 10 gm%
 - only those pregnant mothers who are not eating green vegetables
 - all pregnant mothers since 6 weeks of pregnancy
50. The clinical feature of physiological edema in pregnancy
- is present on both lower limbs and abdomen
 - is associated with cardiac or renal pathology
 - is usually of moderate or severe grade
 - disappears or markedly reduced on rest
51. The normal rate of dilatation of the cervix in a primigravida in the active phase of labor is
- 0.25 cm/hour
 - 0.5 cm/hour
 - 0.75 cm/hour
 - 1 cm/hour
52. In the mechanism of normal labour the engaging transverse diameter is
- Suboccipitobregmatic (9.5 cm)
 - Biparietal diameter (9.5 cm)
 - Bimastoid diameter (7.5 cm)
 - Suboccipitofrontal diameter (10 cm)
53. Compared to breast milk, colostrum has
- higher fat content
 - higher carbohydrate content
 - higher protein content
 - lower water content
54. In non lactating mothers, after delivery, ovulation
- may occur as early as 2 weeks
 - may occur as early as 4 weeks
 - may occur as early as 6 weeks
 - is unusual before 6 weeks
55. Which of the following are the prerequisites of outlet forceps delivery ?
- Bladder should be empty
 - Membranes should be intact
 - Cervix should be fully dilated
 - Fetal skull has reached level of pelvic floor
- Select the correct answer using the code given below :
- 1, 2 and 3
 - 1, 2 and 4
 - 1, 3 and 4
 - 2, 3 and 4

56. The vaginal pH in childbearing age normally ranges between

- (a) 2.5 – 3.5
- (b) 1 – 2
- (c) 4 – 5.5
- (d) 7 – 8

57. The Gartner's duct cyst is usually located in

- (a) Anterolateral wall of vagina
- (b) Posterolateral wall of vagina
- (c) Posterior wall of vagina
- (d) Labia minora

58. Endometrial sampling for diagnosis of ovulation is done on which day of menstrual cycle ?

- (a) 8th – 10th day
- (b) 12th day
- (c) 14th day
- (d) 21st to 23rd day

59. Primary Dysmenorrhoea can be treated by which of the following ?

1. Antiprostaglandin
2. Cyclic combined estrogen and progesterone preparations
3. Pre-sacral neurectomy
4. Uterine curettage

Select the correct answer using the code given below :

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

60. Which one of the following is correct regarding obesity and infertility ?

- (a) It is associated with hypogonadotropic hypogonadism
- (b) It is associated with hypergonadotropic hypergonadism
- (c) There is no change in HPO axis
- (d) It is always associated with endometrial atrophy

61. Which one of the following is an abnormal parameter in accordance with WHO Serum Analysis Criteria (Normal reference value) ?

- (a) Volume \geq 2 ml
- (b) Viscosity $>$ 4
- (c) Progressive forward motility of sperms $>$ 50%
- (d) Normal morphology of sperms $>$ 14%

62. Which of the following are causes of GnRH dependent precocious puberty ?

1. Constitutional
2. Tubercular Encephalitis
3. McCune-Albright syndrome
4. Primary hypothyroidism

Select the correct answer using the code given below :

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

63. Which one of the following is the most important haematological condition to be ruled out while investigating a case of puberty menorrhagia ?

- (a) Anaemia
- (b) Coagulation disorder
- (c) G-6PD deficiency
- (d) Leukemia

64. A couple presented to OPD with complaint of inability to conceive for last 3 years. Husband was advised semen analysis. What is the WHO criterion for minimum sperm count per ml in normal semen ?

- (a) 10 million
- (b) 15 million
- (c) 30 million
- (d) 40 million

65. Which of the following are risk factors for developing pelvic inflammatory disease in females ?

1. Use of oral contraception pills
2. Multiple sexual partners
3. Lower socioeconomic status
4. Genetic predisposition

Select the correct answer using the code given below :

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

66. A 65 year old postmenopausal lady presents in Gynaecology OPD with abdominal distension and weight loss. On investigation she was diagnosed to have an ovarian tumour. The most common type of ovarian tumour in this woman would be

- (a) Germ cell tumor
- (b) Sex cord tumor
- (c) Epithelial tumor
- (d) Trophoblastic tumor

67. Which of the following are the characteristic features of Meigs' syndrome in a female ?

1. Right sided hydrothorax
2. Ascites
3. Genital warts
4. Fibroma ovary

Select the correct answer using the code given below :

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

68. A 25 year old girl is presented to Gynaecology OPD with complaints of abdominal pain, heavy menstrual bleeding with a mass arising from the hypogastrium corresponding to 16 weeks gravid uterus. Her urine pregnancy test is negative. The most likely diagnosis would be

- (a) Pelvic inflammatory disease
- (b) Uterine fibroid
- (c) Ovarian tumour
- (d) Endometriosis

69. A 39 year old nulliparous female has presented to Gynaecology OPD with complaint of post coital bleeding for past six months. The first investigation to be offered to this female will be

- (a) Colposcopy
- (b) Dilatation and Curettage
- (c) Pap smear
- (d) Cone Biopsy of Cervix

70. Procidentia as a degree of uterovaginal prolapse is characterised by descent of

- (a) uterus into vagina
- (b) uterine cervix outside vagina but uterine body inside vagina
- (c) uterine cervix below ischial spine
- (d) uterine cervix body with fundus outside vagina with eversion of entire vagina

71. Which of the following are indications of vaginal examinations during labour ?

1. To stretch the vagina intermittently
2. At the onset of labour
3. To monitor progress of labour
4. Following rupture of membranes

Select the correct answer using the code given below :

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

72. Which one of the following statements regarding Rh isoimmunization are correct ?

1. Liley's chart identifies anemia better than middle cerebral artery doppler
2. Indirect coomb's test is positive in mother
3. Baby is at risk of developing anemia
4. Direct coomb's test is positive in baby

Select the correct answer using the code given below :

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

73. As per ICMR guidelines, which of the following are the criteria for SARS-COV-2 exposure for a pregnant female during COVID-19 pandemic ?

1. Travel to an affected country within previous 14 days
2. Close contact with a confirmed case within a distance of 1 metre for more than 15 minutes

3. Living in neighbourhood of a confirmed case

4. Direct contact with body fluids of a confirmed case

Select the correct answer using the code given below :

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

74. Which of the following are the clinical features of septic abortion ?

1. Persistent tachycardia ≥ 90 bpm
2. Impaired mental status
3. Hypothermia

Select the correct answer using the code given below :

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

75. Consider the following statements :

Statement-1 : In fetal growth restriction there is always oligohydramnios

Statement-2 : In fetal growth restriction there is placental insufficiency leading to redistribution of blood flow to fetal brain shunting it from fetal kidney

Which one of the following is correct in respect of the above statements ?

- (a) Both Statement-1 and Statement-2 are true and Statement-2 is the correct explanation for Statement-1
- (b) Both Statement-1 and Statement-2 are true and Statement-2 is not the correct explanation for Statement-1
- (c) Statement-1 is true but Statement-2 is false
- (d) Statement-2 is true but Statement-1 is false

76. Which of the following are correct regarding failure rate of contraceptive methods ?

- 1. Depot medroxyprogesterone acetate 0 to 1 per HWY
- 2. Norplant 0.1 per HWY
- 3. LNG-IUS 0.02 per HWY
- 4. Levonorgestrel 3 per HWY

Select the correct answer using the code given below :

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

77. Consider the following in respect of Ormeloxifene :

- 1. It is a research product of Central Drug Research Institute, Lucknow
- 2. It is a steroidal compound
- 3. It is a potent antiestrogen with weak estrogenic properties
- 4. It does not inhibit ovulation

Which of the above are correct ?

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

78. Steroidal contraceptives available in the basket of contraceptive choice from Ministry of Health & Family Welfare, Government of India are

- (a) Monophasic
- (b) Biphasic
- (c) Triphasic
- (d) Estrogen only pills

79. Which of the following are absolute contraindications of Combined Oral Contraceptive (COCs) ?

1. Arterial or venous thrombosis history
2. Severe hypertension
3. Gestational trophoblastic neoplasia
4. Diabetes with vascular complications

Select the correct answer using the code given below :

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

80. After male sterilization, additional contraceptive protection is

- (a) needed for 1 month
- (b) needed for 1 to 2 months
- (c) needed for 2 to 3 months
- (d) not needed

81. The life expectancy at birth for a country A is 64 years. The minimum and maximum values of life expectancy are 20 years and 86 years respectively. As part of Human Development Index (HDI), what is the Life Expectancy Index for the country A ?

- (a) 0.512
- (b) 0.667
- (c) 0.744
- (d) 0.970

82. Which of the following indicators stand consolidated in Physical Quality of Life Index (PQLI) ?

1. Infant mortality
2. Life expectancy at age one
3. Per capita income
4. Literacy

Select the correct answer using the code given below :

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

83. Consider the following staff :

1. Medical Officer
2. Pharmacist
3. Anaesthetist
4. Health Educator

Of them, who are routinely posted to a PHC ?

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

84. Which one of the following management techniques helps in standardising the methods of performing jobs ?

- (a) Systems Analysis
- (b) Decision Making
- (c) Work Sampling
- (d) Personnel Management

85. STDs are transmitted by

- (a) Direct contact
- (b) Droplet infection
- (c) Contact with soil
- (d) Vector borne

86. Under the International Health Regulations which of the following diseases are notifiable by the National Health Authority to the World Health Organisation ?

- 1. Cholera
- 2. Plague
- 3. Klebsiella pneumonia
- 4. Yellow fever

Select the correct answer using the code given below :

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

87. In which one of the following study designs, the unit of study involves populations rather than individuals ?

- (a) Ecological studies
- (b) Cross-sectional studies
- (c) Case-control studies
- (d) Cohort studies

88. The following table shows the mortality figures among hazardous industry workers :

| Age group | National death rate per 1000 | Hazardous industry worker population | Observed deaths |
|-----------|------------------------------|--------------------------------------|-----------------|
| 25-34 | 2.0 | 3000 | 8 |
| 35-44 | 3.5 | 2000 | 9 |
| 45-54 | 6.0 | 2000 | 13 |

What is the Standardized Mortality Ratio (SMR) for the hazardous industry workers (as compared to national population) ?

- (a) 100
- (b) 110
- (c) 120
- (d) 130

89. Which one of the following best explains the relationship among Prevalence (P), Incidence (I) and Duration (D) of a disease given the assumption that the population is stable ?

- (a) $I = P \times D$
- (b) $D = P \times I$
- (c) $I = P + D$
- (d) $P = I \times D$

90. A new test was developed for detection of COVID-19.

| COVID-19 | | | | |
|----------|----------|-----------|-----------|-------|
| Test | | Disease + | Disease - | Total |
| | Positive | 60 | 40 | 100 |
| | Negative | 100 | 1800 | 1900 |
| | | 160 | 1840 | 2000 |

What is the sensitivity of the test as per the information provided above ?

- (a) 20.5%
- (b) 37.5%
- (c) 60%
- (d) 97%

91. The blood glucose level of 5 individuals was 110, 94, 102, 98, 96 :

Consider the following statements :

1. The range is 16
2. The median is 98
3. The standard deviation is $\sqrt{10}$

Which of the above statements are correct ?

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

92. Which of the following are true about measles ?

1. It is highly infectious in the phase following the appearance of rash
2. Infection usually confers lifelong immunity
3. It has a low secondary attack rate

Select the correct answer using the code given below :

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

93. Which of the following drugs should be avoided in the first-line ART regimens because of its well recognized metabolic toxicities ?

- (a) Zidovudine (AZT)
- (b) Stavudine (d4T)
- (c) Tenofovir (TDF)
- (d) Lamivudine (3TC)

94. The recommended dose of cotrimoxazole for treatment of pneumonia in a child weighing 16 kg is

- (a) One paediatric tablet twice a day
- (b) Two paediatric tablets twice a day
- (c) Three paediatric tablets twice a day
- (d) Four paediatric tablets twice a day

95. Hepatitis B vaccine administered at birth is

- (a) A pentavalent vaccine
- (b) A combined vaccine of inactivated Polio and Hepatitis B
- (c) A monovalent vaccine of Hepatitis B
- (d) A fixed combination vaccine of Hib, Hepatitis A and Hepatitis B

96. The classical triad of congenital defects in Congenital Rubella Syndrome include which of the following ?

- 1. Hydrocephalus
- 2. Deafness
- 3. Cardiac malformations
- 4. Cataract

Select the correct answer using the code given below :

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

97. Which of the following are correct in respect of Diphtheria ?

- 1. The incubation period is 14 to 28 days
- 2. Diphtheria antitoxin is used in treatment of cases
- 3. It is one of the diseases protected from, by the Pentavalent vaccine given in National Program

Select the correct answer using the code given below :

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

98. A person has presented with history of dog-bite on the uncovered surface of his right leg. There is a minor abrasion without bleeding. Consider the following statements about management :

- 1. The bite should be taken as a category I contact with suspect animal
- 2. The bite requires local treatment of the wound
- 3. The person requires immediate vaccination
- 4. The person requires immediate administration of rabies immunoglobulin

Which of the above statements are correct ?

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

99. Consider the following stages of modern sewage treatment plants :

1. Use of Grit chamber
2. Use of Primary sedimentation tank
3. Screening
4. Use of Sludge digester

What would be the correct sequence of the above stages ?

- (a) 3→2→1→4
- (b) 2→3→4→1
- (c) 3→1→2→4
- (d) 4→2→1→3

100. A vital layer, also known as "Schmutzdecke" is seen in which one of the following ?

- (a) Air filter
- (b) Rapid sand filter
- (c) Slow sand filter
- (d) Reverse osmosis filter

101. A 25 year old woman is a sedentary worker. She is a lactating mother with a 3 month old child. Which one among the following is the best approximation of her energy requirement in terms of kilocalories per day ?

- (a) 1500 kcal/d
- (b) 2250 kcal/d
- (c) 2500 kcal/d
- (d) 2830 kcal/d

102. The amount of iron lost per 28 day cycle in menstruating women is

- (a) 5.5 mg
- (b) 8.5 mg
- (c) 12.5 mg
- (d) 15.5 mg

103. The most sensitive indicator of environmental iodine deficiency is

- (a) Prevalence of goitre
- (b) Prevalence of neonatal hypothyroidism
- (c) Prevalence of cretinism
- (d) Urinary iodine excretion

104. Insulin Resistance Syndrome (Syndrome X) is associated with which of the following ?

1. Type 2 Diabetes Mellitus
2. Hyperinsulinaemia
3. Dyslipidaemia
4. Hypercalcaemia

Select the correct answer using the code given below :

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

105. The "DASH diet" is a lifestyle modification for management of which of these conditions ?

- (a) Cancer
- (b) Diabetes
- (c) Anemia
- (d) Hypertension

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

106. Which one of the following is a famous large prospective study that helped establish risk factors for coronary heart disease ?

- (a) Adelaide study
- (b) Birmingham study
- (c) Framingham study
- (d) Pittsburg study

108. Of the following international agencies, which agency has been assisting India in development of friendly models of sanitization ?

- (a) SIDA (Swedish International Development Agency)
- (b) DANIDA (Danish Development Agency)
- (c) Ford Foundation

107. Most industrial workers are exposed to lead as an occupational hazard. Which of the following statements regarding lead poisoning are correct ?

1. Lead poisoning is also called plumbism
2. Basophilic stippling of red blood cells is seen
3. Progressive massive fibrosis of lungs is seen
4. Coproporphyrin in urine (CPU) is a useful screening test

(d) CARE (Cooperative for Assistance and Relief Everywhere)

109. Which one among the following was used for measuring economic status of households, in the National Family Health Survey-III (NFHS-III) ?

- (a) Kuppuswamy's scale
- (b) Pareek scale
- (c) Lifestyle index
- (d) Wealth index

110. In a town with one lakh population (1,00,000) there are a total of 2500 live births in a year. There were 75 total deaths of children before the age of one month, total 200 deaths before the age of one year, and a total 300 deaths before the age of three years. Which of the following statements regarding Infant Mortality Rate (IMR) of the town for the given year are correct ?

1. The denominator is 1,00,000
2. The IMR of the town is higher than the current national average of IMR for India
3. The numerator is the number of children dying before the age of one month
4. The IMR of the town is 80 per 1000 live births

Select the correct answer using the code given below :

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

111. The voluntary scheme under which any obstetrics and gynaecology specialist, lady doctor/MBBS doctor can volunteer themselves for providing safe motherhood service is called

- (a) Ayushman Bharat Scheme
- (b) Mamta Scheme
- (c) Janani Suraksha Scheme
- (d) Vande Mataram Scheme

112. A 2 year old child has presented for vaccination, who has never been vaccinated earlier. As per the Universal Immunization Program, which among the following vaccines will be administered to the child on the first visit ?

1. BCG vaccine
2. DPT-1 vaccine
3. Hepatitis B vaccine
4. Measles vaccine

Select the correct answer using the code given below :

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

113. Consider the following statements :

Statement-1 : In the National Immunization Program, BCG vaccine is given only on the left upper arm

Statement-2 : This is done to maintain uniformity and for helping surveyors in verifying receipt of the vaccine

Which one of the following is correct in respect of the above Statements ?

- (a) Both Statement-1 and Statement-2 are correct and Statement-2 is the correct explanation for Statement-1
- (b) Both Statement-1 and Statement-2 are correct and Statement-2 is not the correct explanation for Statement-1
- (c) Statement-1 is true but Statement-2 is false
- (d) Statement-1 is false but Statement-2 is true

114. You visit an industry to audit whether the benefits under the Employees State Insurance Act are being properly provided. Which of the following benefits should be available to the insured persons, or other dependents as the case may be ?

1. Medical benefit
2. Sickness benefit
3. Funeral expenses
4. Rehabilitation allowance

Select the correct answer using the code given below :

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

115. Among the following intra-uterine contraceptive devices, which of the following are included in second generation IUDs ?

1. Lippes Loop
2. Copper T-200
3. LNG-20 (Mirena)
4. Copper-T-380 A

Select the correct answer using the code given below :

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

116. DANIDA, the international aid agency of Denmark, is known for its assistance to which one of the India's National Health Programmes ?

- (a) National AIDS Control Programme
- (b) National Blindness Control Programme
- (c) National Tuberculosis Control Programme
- (d) National Deafness Control Programme

117. After attending a birthday party in a hostel around 50 students reported having loose stools, fever and few reported vomiting. This outbreak can be identified as what type of outbreak ?

- (a) Propagated only
- (b) Common point source only
- (c) Common source continuous
- (d) Both propagated and common point source

118. Which of the following vaccines are given through the intramuscular route ?

1. BCG vaccine
2. Hepatitis B vaccine
3. Pentavalent vaccine
4. Inactivated Polio vaccine

Select the correct answer using the code given below :

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

119. Covaxin is a/an

- (a) Live attenuated vaccine
- (b) Inactivated whole virus vaccine

(c) Protein subunit vaccine

(d) Nucleic acid vaccine

120. Which of the following agencies are playing a key role in running of the "COVAX" initiative against COVID-19 ?

1. GAVI, the Vaccine Alliance

2. World Health Organisation (WHO)

3. Ford Foundation

4. Coalition for Epidemic Preparedness Innovations (CEPI)

Select the correct answer using the code given below :

(a) 1, 2 and 3

(b) 1, 3 and 4

(c) 1, 2 and 4

(d) 2, 3 and 4

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