

122

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO.

TR/JDMO/GS/2024

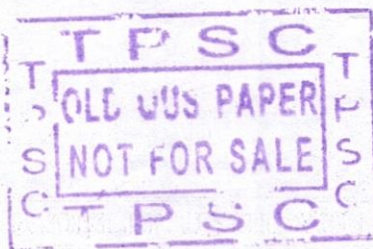
TEST BOOKLET
GENERAL STUDIES

Test Booklet Series



(Signature of the Candidate)

(Invigilator's Signature)



Time Allowed – Two (02) hours

Maximum Marks – 85

INSTRUCTIONS

1. PLEASE CHECK THE 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. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.
3. This Test Booklet contains 85 items (questions). Each question has four responses (answers). You will select the responses 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 most appropriate. In any case, choose ONLY ONE response for each item.
4. You have to mark all your responses ONLY on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the responses to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instruction sent to you with your Admission Certificate.
7. After you have completed filling in responses on the Answer Sheet and the Examination is completed, you should handover the Answer Sheet to the Invigilator only. You are permitted to take away the Test Booklet.
8. Sheets for rough work are appended on the Test Booklet at the end.
9. Penalty for wrong answers :
 - (a) There will be four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-fourth of the marks assigned to that question will be deducted as penalty.
 - (b) 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.
 - (c) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO.

Four options are given against each of the following questions. Select the best/correct option from among the four options and encode in the Answer Sheet by using **Black Ball Point Pen** only as per example given below :

Example : The capital of India is :

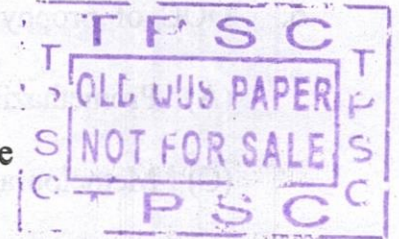
(A) Delhi

☒ (B) New Delhi

(C) Indraprastha

(D) None of these

Answer : ☒ B.



1. Which muscle is inserted into the floor of the intertubercular sulcus of the humerus ?

(A) Latissimus dorsi

(B) Teres major

(C) Pectoralis major

(D) Deltoid

2. Claudication due to popliteal femoral incompetence is primarily seen in

(A) Thigh

(B) Calf

(C) Buttocks

(D) Feet

3. A 30 year-old woman presents with thyroid swelling. On investigations, her TSH levels are found to be elevated. Postoperative reports showed lymphocytic infiltration and hurthle cells. A most probable diagnosis is

(A) Graves disease

(B) Hashimoto's thyroiditis

(C) Follicular carcinoma

(D) Medullary carcinoma thyroid

4. Richest source of vitamin B12 is

(A) Meat

(B) Green leafy vegetables

(C) Corn oil

(D) Sunflower oil

119
5. What is the tensor of vocal cords ?

- (A) Cricothyroid (B) Lateral Cricoarytenoid
(C) Thyroarytenoids (D) Posterior cricoarytenoids

6. DOC of prophylaxis for motion sickness is

- (A) Promethazine (B) Prochlorperazine
(C) Metoclopramide (D) Itopride

7. Which of the following defines vital capacity ?

- (A) Air in lung after normal expiration
(B) Maximum air that can be expired after normal inspiration
(C) Maximum air that can be expired after maximum inspiration
(D) Maximum air in lung after end of maximal inspiration

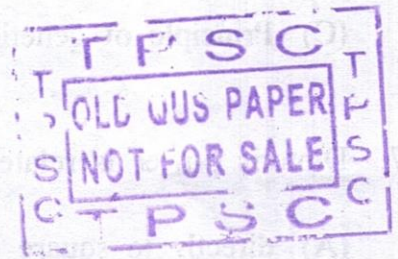
8. Which of the following is the law on child sexual abuse in India ?

- (A) Child Sexual Abuse Prevention Act
(B) Protection Of Children from Sexual Offences Act (POCSO)
(C) Child Welfare Act
(D) Sexual Offences Act

9. A person was given a muscle relaxant that competitively blocks nicotinic receptors. Which of the following drugs is used for reversal of muscle relaxation after surgery ?

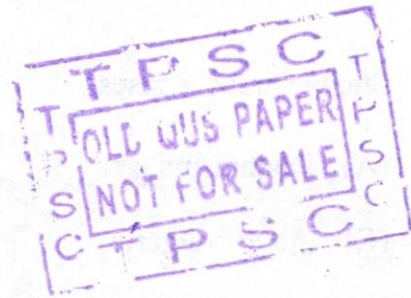
- (A) Neostigmine (B) Carbachol
(C) Succinylcholine (D) Physostigmine

10. Amyloidosis is most commonly seen in
- (A) Maturity onset-DM (B) Type I-DM
(C) Type II-DM (D) HTN
11. Staph aureus causes
- (A) Erythrasma (B) Chancroid
(C) Acne vulgaris (D) Bullous impetigo
12. Serological testing of patient shows HBsAg, IgM anti-HBc and HBeAg positive. Which of the following is true for this patient?
- (A) Chronic hepatitis B with low infectivity
(B) Acute hepatitis B with high infectivity
(C) Chronic hepatitis with high infectivity
(D) Acute on chronic hepatitis
13. Type-B adverse drug reaction is
- (A) Augmented effect of drug (B) Unpredictable Bizzare reaction
(C) Effect seen on chronic use of drug (D) Delayed effect of drug
14. Which of the following statements about 'Late Expanding Phase of Demographic Cycle' is TRUE?
- (A) Birth Rate is lower than Death Rate
(B) High Death Rate and High Birth Rate
(C) Death Rate declines more than Birth Rate
(D) Death Rate begins to decline while Birth Rate remains unchanged



117
15. A person reports 4 hours after having a clean wound without laceration. He had taken TT 10 years before, the next step in management is

- (A) Full course Tetanus vaccine to be given
- (B) Full dose TT with TIG
- (C) Single-dose TT
- (D) No need for any vaccine



16. Hardy-Weinberg law is related to which of the following principles ?

- (A) Principle of inheritance
- (B) Principle of Genetic variation
- (C) Principle of genetic equilibrium
- (D) Principle of survival of the fittest

17. Dipteris power is related

- (A) directly to square of focal length
- (B) inversely to focal length
- (C) directly to focal length
- (D) inversely to square of focal length

18. Screening is not useful in which carcinoma ?

- (A) Carcinoma prostate
- (B) Carcinoma colon
- (C) Carcinoma breast
- (D) Testicular tumor

19. Notifiable diseases to WHO are all except

- (A) Cholera
- (B) Plague
- (C) Yellow fever
- (D) Tuberculosis

20. Investigation of choice in pheochromocytoma is

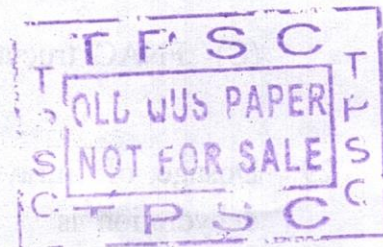
- (A) CT scan
- (B) Urinary catecholamines
- (C) MIBG scan
- (D) MRI scan

21. Eale's disease is

- (A) Retinal hemorrhage
- (B) Vitreous hemorrhage
- (C) Conjunctival hemorrhage
- (D) Choroidal hemorrhage

22. Which of the following statement about keloid is true ?

- (A) They do not extend into normal skin
- (B) Local recurrence is common after excision
- (C) They often undergo malignant change
- (D) They are more common in whites than in blacks



23. Most common cause of intermittent proptosis is

- (A) Orbital varix
- (B) Thyroid ophthalmopathy
- (C) Neuroblastoma
- (D) Retinoblastoma

24. Chemotherapeutic Agent of Choice for the treatment of CML is

- (A) Imatinib
- (B) Vincristine
- (C) Cyclophosphamide
- (D) Methotrexate

25. Kussmaul's sign is classically described in

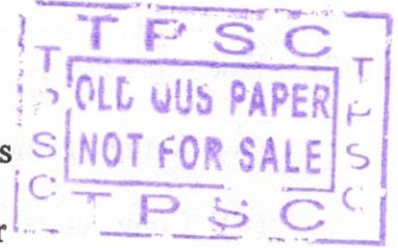
- (A) Restrictive Cardiomyopathy
- (B) Pericardial Tamponade
- (C) Constrictive pericarditis
- (D) Right Ventricular Infarct

115
26. Step ladder pattern of gas shadow is seen in

- (A) Duodenal obstruction (B) Intestinal obstruction
(C) Gastric outlet obstruction (D) Sigmoid volvulus

27. Most common muscle damaged in rotator cuff is

- (A) Supraspinatus (B) Infraspinatus
(C) Subscapularis (D) Teres minor



28. Which of the following is not a component of triple test in detection of Ca breasts ?

- (A) Breast self examination (B) USG/ mammography
(C) FNAC/ trucut biopsy (D) Clinical examination

29. Dosage of intravenous fluid for 2 months old child in diarrhoea with severe dehydration is

- (A) 100ml/kg in 6 hours (B) 50ml/kg in 6 hours
(C) 75ml/kg in 6 hours (D) 80ml/kg in 6 hours

30. According to WHO's guidelines which of the following doses of zinc recommended for Diarrhoea in a child aged 12 months ?

- (A) 1mg/10-14 days (B) 10 mg/10-14 days
(C) 15 mg/1-14 days (D) 20 mg/10-14 days

31. Which of the following is the most common cause of abdominal palpable mass and non-bilious vomiting in a 3 months old infant ?

- (A) Hypertrophic biliary stenosis (B) Hypertrophic pyloric stenosis
(C) Tracheoesophageal fistula (D) Duodenal atresia

32. After chronic use of steroids severe pain in right hip with immobility is due to
- (A) Avascular necrosis (B) Perthes disease
(C) Hip dislocation (D) Osteoarthritis
33. Tuberculosis spine ; most common site is
- (A) Sacral (B) Cervical
(C) Dorsolumbar (D) Lumbosacral
34. Most common bent for which nailing is done is
- (A) Radius (B) Ulna
(C) Tibia (D) Humerus
35. Hydrops fetalis is due to
- (A) Rh mismatch (B) Hyperproteinemia
(C) Placental hypoplasia (D) All of these
36. Gold standard diagnostic technique for diagnosis of endometriosis is
- (A) Laparoscopy (B) Ca 125 level
(C) Ultrasound (D) MRI
37. Testosterone secreted by
- (A) Leydig's cells (B) Somatotrophic cells
(C) Acidophilic cells (D) Gonadotropic cells

113
38. Vegetation in mitral valve is seen in which condition ?

- (A) Libman sacks (B) Infective endocarditis
(C) NBTE (D) Rheumatic fever

39. A 25-year old alcoholic presented with edema, hypertension, ocular disturbance, and changes in mental state was observed, diagnosis of high output cardiac failure was made with Wet Eeri Beri, this is due to deficiency of

- (A) Vit B3 (B) Vit B6
(C) Vit B9 (D) Vit B1

40. In a patient with lipoprotein lipase deficiency, which of the following is increased following a fatty meal ?

- (A) Chylomicron (B) LDL
(C) HDL (D) Apo-A

41. DOC for chemotherapy induced vomiting is

- (A) Granisetron (B) Metoclopramide
(C) Domperidone (D) Dimenhydrinate

42. In a normal curve what is the area that comes under 1 standard deviation ?

- (A) 50% (B) 68%
(C) 95% (D) 100%

43. Best representative of incidence of disease in different timeline is

- (A) Histogram (B) Line diagram
(C) Scattered diagram (D) Bar diagram

44. Diagnostic power of a test to correctly diagnose a disease is
- (A) Negative predictive value (B) Positive predictive value
(C) Sensitivity (D) Specificity
45. Confounding factor is defined as
- (A) Factor associated with both the exposure and the disease and is distributed unequally in study and control groups.
(B) Factor associated with exposure only and is distributed unequally in study and control groups.
(C) Factor associated with both the exposure and the disease and is distributed equally in study and control groups.
(D) Factor associated with the disease and is distributed equally in study and control groups.
46. Green colour of triage is for which patient ?
- (A) Low priority (B) Morbidity
(C) Ambulatory (D) High priority
47. Broca's area is situated in
- (A) Inferior frontal gyrus (B) Superior temporal gyrus
(C) Angular gyrus (D) None of these
48. Pott's puffy tumors is characterized by which of the following features ?
- (A) Subperiosteal abscess of frontal bone
(B) Subperiosteal abscess of ethmoid bone
(C) Mucocele of frontal bone
(D) Mucocele of ethmoid bone

49. Which receptors are blocked in Myasthenia Gravis ?

- (A) Nicotinic receptors
- (B) Ca^{++} receptors
- (C) Na^{2+} receptors
- (D) Muscarinic receptors

50. Which of the following is false as physiological change in pregnancy ?

- (A) Increase cardiac output
- (B) Increase total protein
- (C) Increase residual volume of lungs
- (D) Increase GFR

51. Clavipectoral fascia is pierced by all except

- (A) Lateral pectoral nerve
- (B) Median pectoral nerve
- (C) Thoracoacromial vessels
- (D) Cephalic vein

52. Which is the most common organ involved in sarcoidosis ?

- (A) Lung
- (B) Liver
- (C) CNS
- (D) Eye

53. Most common form of Hernia in children is

- (A) Umbilical
- (B) Morgagni
- (C) Inguinal
- (D) None of these

54. Axillary artery is divided into three parts by

- (A) 1st rib
- (B) Clavicle
- (C) Pectoralis muscle
- (D) Teres minor muscle

55. Water hammer pulse is seen in

- (A) Aortic regurgitation
- (B) Mitral stenosis
- (C) Aortic stenosis
- (D) Left ventricular failure

56. A 50 year-old man presents with paresthesia. HB-6.8g/dl. Peripheral smear shows macrocytosis and neutrophils with hypersegmented nuclei endoscopy reveals atrophic gastritis. A most probable diagnosis is

- (A) Folate deficiency
- (B) Vitamin B12 deficiency
- (C) Riboflavin deficiency
- (D) Iron deficiency

57. Glucose is absorbed in intestine by

- (A) Secondary active transport
- (B) Facilitated diffusion
- (C) Simple diffusion
- (D) Primary active transport

58. Warthin finkeldey cells are seen in

- (A) Measles
- (B) Rubella
- (C) Rabies
- (D) Typhoid

59. Insulin like growth factor is secreted by

- (A) Liver
- (B) Pituitary gland
- (C) Pancreas
- (D) Adrenal glands

60. Fishy odour occurs due to deficiency of this vitamin from diet

- (A) Biotin
- (B) Thiamine
- (C) Riboflavin
- (D) Vit. A

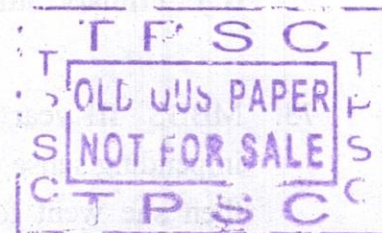
61. Bernad-Soulier syndrome is due to deficiency of
- (A) Gp 2b/3a (B) Gp 1b
(C) vWf (D) TNF
62. A patient arrived in Emergency room following a road traffic accident with hypotension, respiratory distress and subcutaneous emphysema with no entry of air on one side. What will be the best management ?
- (A) Needle decompression in 5th intercostal space in the midaxillary line
(B) Continue PPV
(C) Shift to ICU and incubate
(D) Secure IV line and start fluid resuscitation after insertion of the wide-bore IV line
63. Anaplasia is
- (A) Changing one type of epithelium to another
(B) Nuclear chromatin
(C) Lack of differentiation
(D) Morphological changes
64. Most common site of chronic gastric ulcer is
- (A) Pyloric antrum (B) Upper part of lesser curvature
(C) Lower part of lesser curvature (D) Segment of large intestine
65. Patient presenting with cutaneous vasculitis, glomerulonephritis, peripheral neuropathy. Which investigation is to be performed next that will help you diagnose the condition ?
- (A) ANCA (B) RA factor
(C) Hbsag (D) MIF

66. What is mechanism of action of colchicine in acute gout ?

- (A) Inhibition of purine metabolism
- (B) Inhibition of uric acid conversion
- (C) Migration of leukocytes
- (D) Leukocytes, lymphocytes inhibition and microtubular inhibitor

67. Posthumous child is

- (A) Child delivered after death of biological mother
- (B) Child delivered after death of biological father
- (C) Born after death of parents
- (D) Has been abandoned by parents



68. A sexually active female presented with complaints of profuse frothy foul-smelling discharge with intense itching. On examination Strawberry cervix is revealed $\theta 4_z$. Which of the following condition is the most appropriate diagnosis for this patient ?

- (A) Trichomonas vaginalis
- (B) Bacterial vaginosis
- (C) Candidiasis
- (D) Gonorrhea

69. A 7 weeks pregnant lady has 1 accidental exposure to x-ray. Which of the following should be done ?

- (A) Continue pregnancy
- (B) Terminate pregnancy
- (C) Chromosome analysis
- (D) Pre invasive diagnostic testing

70. Incidence of a disease is 4 per 1000 of population with duration of 2 years. Calculate the prevalence.

- (A) 8/1000
- (B) 4/1000
- (C) 2/1000
- (D) 6/1000

107
71. Water's view is used to obtain diagnostic information of

- (A) Maxillary sinus
- (B) Ethmoidal sinuses
- (C) Frontal sinus
- (D) Sphenoid sinus

72. Which of the following best describes if a susceptible person developed disease within range of incubation period after coming in contact with primary case?

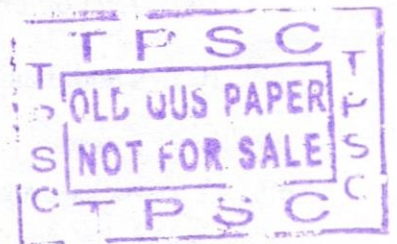
- (A) Secondary attack rate
- (B) Case fatality rate
- (C) Primary attack rate
- (D) Tertiary attack rate

73. MBBS III year student was choking with dyspnea, chest tightness, anxiety and an impending sense of doom. On examination all systemic conditions were found normal, then she went to psychiatry. What is the probable diagnosis of the condition ?

- (A) Panic disorder
- (B) Depression
- (C) Epilepsy
- (D) Asthma

74. New RNTCP software online to monitor TB control programme is

- (A) NIKSHAY
- (B) NICHAY
- (C) E-DOTS
- (D) NIRBHAI



75. Roth spots is seen in

- (A) Uveal melanoma
- (B) Acute leukaemia
- (C) Both (A) and (B)
- (D) None of these

76. Blow out fracture of orbit involves

- (A) Floor
- (B) Medial wall
- (C) Lateral wall
- (D) Roof

77. Common cause of chronic pancreatitis is
(A) Chronic alcohol consumption (B) Chronic pancreatic calculi
(C) Pancreas divisum (D) Gallbladder stone
78. Which of the fontanelle is the last to close ?
(A) Anterolateral (B) Anterior
(C) Lateral (D) Occipital
79. Shoulder dystocia is managed by
(A) Sharp flexion of hip joints towards abdomen
(B) Suprapubic pressure
(C) 90 degree rotation of posterior shoulder
(D) Emergency c-section
80. Which vaccine is not included in Indradhanush Mission ?
(A) Hepatitis (B) Measles
(C) Japanese Encephalitis (D) Diphtheria
81. Which nerve is tested for adequacy of anaesthesia ?
(A) Median Nerve (B) Ulnar Nerve
(C) Radial Nerve (D) Mandibular Nerve
82. What is mechanism of action of Curarium drugs as muscle relaxant ?
(A) Persistently depolarizing at Neuromuscular junction
(B) Act competitively on Ach receptors blocking post-synaptically
(C) Repetitive stimulation of Ach receptors on muscle end plate
(D) Inhibiting the calcium channel on presynaptic membrane

83. Paget's is associated with other cancer

(A) Vulva

(B) Vagina

(C) Cervix

(D) Uterus

84. Dilatation and Curettage (D & C) is contra-indicated in

(A) Pelvic Inflammatory Disease (PID)

(B) Endometriosis

(C) Ectopic pregnancy

(D) None of these

85. Posterior wall of axilla is formed by

(A) Pectoralis major

(B) Intercostal muscles

(C) Subscapularis

(D) None of these.