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# APPSC ASST.CIVIL SURGEONS

## MEDICAL SCIENCE AND GENERAL MEDICINE

**Paper II**

**C**

*Time : 150 Minutes* *Max. Marks : 300*

### INSTRUCTIONS

1. Please check the Test Booklet and ensure that it contains all the questions. If you find any defect in the Test Booklet or Answer Sheet, please get it replaced immediately.
2. The Test Booklet contains **150** questions. Each question carries **two** marks.
3. The Test Booklet is printed in four (4) Series, viz. [A] [B] [C] [D]. The Series, [A] or [B] or [C] or [D] is printed on the right-hand corner of the cover page of the Test Booklet. Mark your Test Booklet Series [A] or [B] or [C] or [D] in Part C on side 1 of the Answer Sheet by darkening the appropriate circle with Blue/Black Ball point pen.

Example to fill up the Booklet Series

If your Test Booklet Series is **A**, please fill as shown below :

● Ⓑ Ⓒ Ⓓ

***If you have not marked the Test Booklet Series at Part C of side 1 of the Answer Sheet or marked in a way that it leads to discrepancy in determining the exact Test Booklet Series, then, in all such cases, your Answer Sheet will be invalidated without any further notice. No correspondence will be entertained in the matter.***

4. Each question is followed by 4 answer choices. Of these, you have to select one correct answer and mark it on the Answer Sheet by darkening the appropriate circle for the question. If more than one circle is darkened, the answer will not be valued at all. Use Blue/Black Ball point pen to make heavy black marks to fill the circle completely. Make **no** other stray marks.

*e.g.* : If the answer for Question No. 1 is Answer choice (2), it should be marked as follows :

| | | | | |
|---|---|---|---|---|
| 1 | ① | ● | ③ | ④ |

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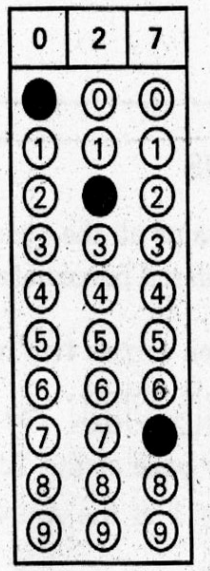
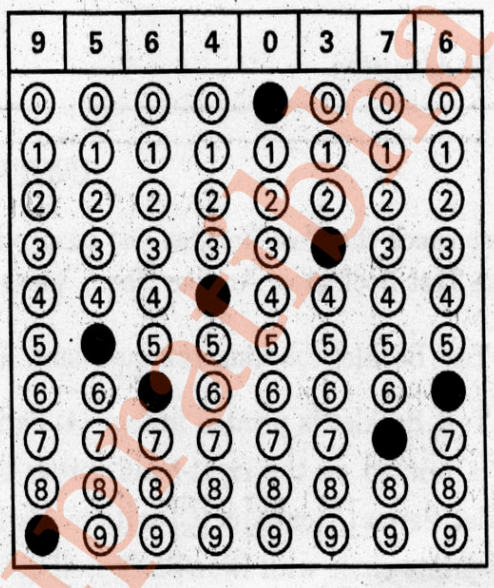
5. Mark Paper Code and Roll No. as given in the Hall Ticket with Blue/Black Ball point pen by darkening appropriate circles in Part A of side 1 of the Answer Sheet. Incorrect/not encoding will lead to ***invalidation*** of your Answer Sheet.

***Example :*** If the Paper Code is **027**, and Roll No. is **95640376** fill as shown below :

**Paper Code**




**Roll No.**




6. Please get the signature of the Invigilator affixed in the space provided in the Answer Sheet. An Answer Sheet without the signature of the Invigilator is liable for ***invalidation***.

7. The candidate should **not** do rough work or write any irrelevant matter in the Answer Sheet. Doing so will lead to ***invalidation***.

8. Do **not** mark answer choices on the Test Booklet. Violation of this will be viewed seriously.

9. Before leaving the examination hall, the candidate should hand over the original OMR Answer Sheet (top sheet) to the Invigilator and carry the bottom sheet (duplicate) for his/her record, failing which disciplinary action will be taken.

10. Use of whitener is prohibited. If used, the answer sheet is liable for invalidation.

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1. Which of the following most accurately describes the transmembrane signalling process involved in steroid hormone action ?

(1) Action of a membrane spanning tyrosine kinase

(2) Activation of a G-protein which activates or inhibits adenylyl cyclase

(3) Diffuses across the membrane and binding to an intracellular receptor

(4) Opening of transmembrane ion channels

2. Which of the following drugs when given alone can produce hypertension after intravenous administration ?

(1) Acetylcholine

(2) Pilocarpine

(3) Carbachol

(4) Bethanechol

3. Chloroquine is the drug of choice in the treatment of

(1) non-falciparum and sensitive falciparum malaria

(2) amoebic liver abcess

(3) rheumatoid arthritis

(4) All of the above

4. The oral dose of Metronidazole in the treatment of Trichomonas vaginitis is

(1) 400 mg twice daily for 1 week

(2) 750 mg once daily for 1 week

(3) 250 mg thrice daily for 10 days

(4) 2 g as a single dose

5. Aspirin overdose is characterised by a syndrome of

(1) bone marrow suppression and aplastic anaemia

(2) fever hepatic dysfunction and encephalopathy

(3) hyperthermia, metabolic acidosis and coma

(4) rash, interstitial nephritis and acute renal failure

6. Which of the following NSAIDs is under clinical evaluation for the preventive management of Alzhheimer's disease ?

(1) Aspirin

(2) Ibuprofen

(3) Diclofenac sodium

(4) Piroxicam

7. The mechanism of action of Diazepam is

(1) binding to GABA receptors and directly enhance the chloride conductance

(2) binding to GABA receptors and increase their affinity towards GABA

(3) binding to GABA receptors and directly inhibit chloride conductance

(4) binding to GABA receptors and decrease their affinity towards GABA

8. Which of the following statements about Doxycycline is ***not*** true ?

(1) It is bacteriostatic

(2) It is excreted mainly in faeces

(3) It is used in Lyme's disease

(4) It is more active than Tetracycline against *H. pylori*

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9. A bone marrow suppression induced by Chloramphenicol is

(1) a dose related reversible phenomenon

(2) a non-dose related irreversible phenomenon

(3) Both the above

(4) None of the above

10. Which of the following antimycobacterial agents can interfere with the action of oral contraceptives ?

(1) Ethambutol

(2) Isoniazid

(3) Rifampicin

(4) Pyrazinamide

11. A cell cycle specific anti-cancer drug that acts mainly in the 'M' phase is

(1) Bleomycin

(2) Cisplatin

(3) Vincristine

(4) Etoposide

12. Methotrexate is used in the treatment of the following *except*

(1) Choriocarcinoma

(2) Ectopic pregnancy

(3) Myasthenia gravis

(4) Psoriasis

13. Which of the following agents is associated with a high incidence of disorientation, sensory and perceptual illness and vivid dreams during recovery from anaesthesia ?

(1) Diazepam

(2) Ketamine

(3) Thiopental

(4) Sevoflurane

14. Which one of the following hypnotic drugs facilitates the inhibition of GABA, but lacks anticonvulsant or muscle relaxing properties and has minimal effect on sleep architecture ?

(1) Buspirone

(2) Diazepam

(3) Phenobarbitol

(4) Zaleplon

15. Opioid analgesics are contraindicated in several clinical situations. For morphine such situations do ***not*** include

(1) Biliary tract surgery

(2) Pulmonary edema

(3) Late stage of labour

(4) Hypothyroidism

16. In acute inflammation the tissue response consists of all *except*

(1) Vasodilatation

(2) Neutrophilic response

(3) Exudation

(4) Macrophage accumulation

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26. The following organisms are gram negative cocci :

(1) Staphylococci

(2) Streptococci

(3) Meningococci

(4) Pneumococci

27. The following is asexually transmitted pathogen :

(1) Mycobacteria

(2) N. Gonorrhoeae

(3) Brucella

(4) Nocardia

28. Liquid paraffin is sterilized by

(1) Hot air oven

(2) Autoclaving

(3) Filtration

(4) Radiation

29. Rheumatoid factor is detected by

(1) Rose-Waaler test

(2) ASO test

(3) Widal test

(4) VDRL test

30. Following organism has metachromatic granules :

(1) Mycobacteria

(2) C. Diphtheriae

(3) Staphylococci

(4) Streptococci

31. Pancreaticoduodenectomy is the treatment of choice for

(1) Duodenal carcinoma

(2) Pancreatic carcinoma

(3) Gall bladder carcinoma

(4) Gastric carcinoma

32. In a post cholecystectomy patient, who develops bile leakage due to CBD tear – 5 days post operative, with no "T" tube inserted at the time of surgery, ideal treatment is

(1) ERCP procedure with stent

(2) hepaticojejunostomy

(3) primary repair after reopening abdomen

(4) ultrasound guided insertion of drain

33. Inguinal and femoral hernia are differentiated by relation with

(1) Pubic tubercle

(2) Femoral artery

(3) Inferior epigastric artery

(4) Pectineal line

34. A.V. fistula leads to all *except*

(1) Sinus tachycardia

(2) Increased pre load

(3) Cardiac arrhythmias

(4) Increased cardiac output

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35. Varicocele of pampiniform plexus of veins has all the following characters *except*

(1) negative transillumination test

(2) reducible

(3) cough impulse present

(4) frequent on right side

36. Initial treatment of management of polytrauma is

(1) airway

(2) IV fluids

(3) fracture stabilisation

(4) do not shift

37. The commonest cause of haematemesis and malena is

(1) Oesophageal varices

(2) Chronic peptic ulcer

(3) Acute peptic ulcer

(4) Carcinoma of stomach

38. Lymphovenous anastomosis is done in

(1) Filariasis

(2) Malignant lymphoma

(3) Post radiotherapy lymphoedema

(4) All of the above

39. While operating for obstructed inguinal hernia the sac is opened at

(1) fundus

(2) neck

(3) body

(4) base

40. During parotid surgery injury to which nerve results in Frey's syndrome ?

(1) Auriculotemporal nerve

(2) Great auricular nerve

(3) Mandibular nerve

(4) Buccal nerve

41. Disc prolapse is recognised by

(1) C.T.

(2) M.R.I.

(3) Myelography

(4) All of the above

42. Lymphatic metastasis of buccal carcinoma first involves

(1) Submandibular

(2) Submental

(3) Jugulo digastric

(4) Jugulo omohyoid

43. Treatment of choice of acute obstruction due to left sided colonic carcinoma in a 70-year-old male is

(1) Left side colectomy

(2) Total colectomy

(3) Hartmann's procedure

(4) Defunctioning colostomy

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44. Acute appedicitis is best diagnosed by

(1) History

(2) Physical examination

(3) X-ray of abdomen

(4) Barium meal

45. Hyperparathyroidism is characterised by the following *except*

(1) Generalised osteoporosis

(2) Renal calculi

(3) Hypercalcemia

(4) Osteosclerosis

46. Components of normal vaginal secretion are the following *except*

(1) secretion from Bartholin's gland

(2) mucus secretion from endocervical glands

(3) mucus secretion from vaginal epithelium

(4) secretion from endometrial glands

47. Ayre's spatula is used in the following procedure :

(1) Endocervical biopsy

(2) Endometrial biopsy

(3) Pap smear

(4) Dilatation and curettage

48. Following are complications of carcinoma cervix *except*

(1) Pyometra

(2) Vesicovaginal fistula

(3) Uterine prolapse

(4) Hydronephrosis

49. Chiari-Frommel syndrome is characterised by following features *except*

(1) Menorrhagia

(2) Lactation

(3) Hyperprolactinemia

(4) Atrophic uterus

50. A poor source of iron in the following food items is

(1) dry fruit

(2) meat

(3) milk

(4) unrefined jaggery

51. Features of HELLP syndrome include

(1) Hemolysis

(2) Low platelet count

(3) Elevated liver enzymes

(4) All of the above

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52. One of the following agents is ***not*** used for inducing medical abortion :

(1) Misoprostol

(2) Methotrexate

(3) Mifepristone

(4) Oxytocin

53. Signs of early pregnancy are the following *except*

(1) Hegar's sign

(2) Beck's sign

(3) Goodell's sign

(4) Jacquemier's sign

54. Placenta develops from fusion of Chorion frondosum and

(1) Decidua capsularis

(2) Decidua basalis

(3) Decidua vera

(4) All of the above

55. Antenatal screening of maternal serum alpha fetoprotein shows increased values in the following fetal malformations *except*

(1) Neural tube defects

(2) Down's syndrome

(3) Omphalocoel

(4) Duodenal atresia

56. One among following facts is ***not*** true about premature baby :

(1) Retinopathy is more common

(2) Risk of kernicterus is greater

(3) Greater heat loss from body

(4) Hyperglycemia is common

57. All the following methods of contraception may be used by a lactating woman *except*

(1) I.U.C.D.

(2) Barrier contraception

(3) Combined oral pills

(4) Injectable progesterones

58. Pap smear should ***not*** be taken in the following circumstances *except*

(1) within 48 hours after intercourse

(2) within 24 hours of last pelvic examination

(3) on the $12^{th}$ day of menstrual cycle

(4) in the presence of infection

59. Non-puerperal tubal sterilisation can be done by

(1) Laparoscopy

(2) Mini-laparotomy

(3) Colpotomy

(4) All of the above

60. Following complication is ***not*** seen after vasectomy :

(1) Recanalisation of vas

(2) Spermatocele formation

(3) Testicular carcinoma

(4) Development of antisperm antibodies

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61. The following is the cell wall free organism :
(1) H. Ducreyi
(2) Mycoplasma
(3) Candida
(4) Mycobacterium

62. Infectious mononucleosis is caused by
(1) Adenovirus
(2) Epstein-Barr virus
(3) Rubella virus
(4) Cytomegalovirus

63. Non-gonococcal uretheritis is caused by
(1) Chlamydia trachomatis
(2) Mycoplasma hominis
(3) N. gonorrhoeae
(4) H. Ducreyi

64. Tuberculous bacillus was discovered by
(1) Alexander Fleming
(2) Robert Koch
(3) Louis Pasteur
(4) Lord Lister

65. A positive Schick test indicates
(1) susceptibility to diphtheria
(2) immunity to diphtheria
(3) hypersensitivity to C. diphtheriae
(4) allergy to C. diphtheriae toxin

66. Which of the following anti-epileptic drugs is safest in pregnancy at present ?
(1) Carbamazepine
(2) Sodium valproate
(3) Topiramate
(4) Lamotrigine

67. Ace-inhibitors are contraindicated in all the following *except*
(1) pregnancy
(2) bilateral renal artery stenosis
(3) severe cough and angio-edema
(4) heart failure

68. Successful thrombolysis after acute myocardial infarction is associated with
(1) rapid rise of creatine kinase levels
(2) rapid fall of CK-MB
(3) rapid fall of cardiac troponin-I
(4) rapid fall of LDH

69. Differential cyanosis and clubbing is characteristic of
(1) VSD with reversal of shunt
(2) PDA with reversal of shunt
(3) Fallot's tetrology
(4) Ebstein's anomaly

70. Best single test to confirm iron deficiency anaemia is
(1) Plasma iron
(2) TIBC
(3) Plasma transferrin
(4) Plasma ferritin

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71. Which BMI range in adult is called obesity ?

(1) 25·0 – 29·9

(2) 30·0 – 39·9

(3) Above 40

(4) 18·5 – 24·9

72. Casal's necklace is characteristic of

(1) Niacin deficiency

(2) Thiamine deficiency

(3) Biotin deficiency

(4) Riboflavin deficiency

73. Haemorrhagic skin rashes are present in all the following infections *except*

(1) Yellow fever

(2) Dengue fever

(3) Rocky Mountain spotted fever

(4) Q-fever

74. Persons with sickle cell hemoglobin are protected against

(1) severe *Plasmodium falciparum* infection

(2) *Plasmodium vivax* infection

(3) *Varicella zoster*

(4) *Plasmodium ovale* infection

75. In HIV disease for 'sero-conversion and vertical transmission' the following laboratory test is diagnostic :

(1) Elisa antibody tests

(2) Immuno blot test (Western-blot)

(3) CD4 cell count

(4) HIV viral load

76. Tuberculin skin test as a diagnosis of tuberculus infection

(1) has high specificity/sensitivity

(2) is useful only in primary or deep seated infection

(3) is very useful for diagnosis of reinfection in adults

(4) is very useful in meningeal tuberculosis

77. In nephrotic syndrome the prognosis is bad with

(1) focal segmental glomerulosclerosis

(2) minimal change disease

(3) membranous glomerulonephropathy

(4) post-infectious glomerulonephritis

78. Urea breath test is used in the diagnosis of

(1) *H. pylori* infection

(2) *E. coli* infection

(3) Ulcerative colitis

(4) Crohn's disease

79. Leucotriene receptor antagonists are used in

(1) Bronchial asthma

(2) Interstitial lung disease

(3) Congestive heart failure

(4) Acute pulmonary embolism

80. Rhombencephalitis and meningitis is characteristic of infection with the following organisms :

(1) Pyogenic bacteria

(2) Mycobacterial infection

(3) Listeria monocytogenes

(4) Cryptococcus

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81. Commonest type of cancer of the renal pelvis and upper ureter is

(1) Transitional cell carcinoma
(2) Adenocarcinoma
(3) Squamous cell carcinoma
(4) Nephroblastoma

82. Most malignant type of carcinoma breast is

(1) Anaplastic carcinoma
(2) Scirrhous carcinoma
(3) Atrophic scirrhous carcinoma
(4) Mastitis carcinomatosa

83. Estrogen receptor status in carcinoma breast is done on

(1) blood
(2) urine
(3) tumour tissue
(4) ovary

84. The most essential feature in reaching a diagnosis of hypertrophic pyloric stenosis is

(1) visible peristalsis
(2) projectile vomiting
(3) loss of weight and dehydration
(4) palpation of hypertrophic pylorus

85. Haemorrhage from a bleeding duodenal ulcer is due to erosion of

(1) superior pancreatico-duodenal artery
(2) gastro-duodenal artery
(3) right gastric artery
(4) left gastric artery

86. Commonest cause of hyperparathyroidism is

(1) single adenoma
(2) multiple adenomata
(3) single gland hyperplasia
(4) multiple gland hyperplasia

87. Splenic vein thrombosis is best treated by

(1) Splenectomy
(2) Porta-caval shunt
(3) Spleno-renal shunt
(4) Mesenterico-caval shunt

88. Gold standard diagnostic test in varicose veins is

(1) Photoplethysmography
(2) Duplex imaging
(3) Ultrasonography
(4) Radio-labelled fibrinogen-study

89. Which of the following is an absolute indication for surgery in cases of benign prostatic hyperplasia ?

(1) Bilateral hydro ureteronephrosis
(2) Nocturnal frequency
(3) Recurrent urinary tract infection
(4) Voiding bladder pressures – > 50 cm of water

90. A 60-year-old man presents with an ulcer on lateral margin of tongue, also complains of ear pain. Most probable diagnosis is

(1) Dental ulcer
(2) Carcinamatous ulcer
(3) T.B. ulcer
(4) Syphilitic ulcer

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91. If a substance appears in the renal artery but not in renal vein

(1) its clearance is equal to GFR

(2) it must be reabsorbed by the kidney

(3) the urinary concentration must be higher than its plasma concentration

(4) its clearance is equal to renal plasma flow

92. Stroke volume can be increased by which of the following ?

(1) Increasing venous compliance

(2) Decreasing ventricular compliance

(3) Increasing heart rate

(4) Decreasing total peripheral resistance

CO = SV × H.R

93. Which one of the following muscle proteins plays an important role in contraction of both smooth and striated muscles ?

(1) Troponin

(2) Tropomyosin

(3) Actin

(4) Myosin light chains

94. An 18-year-old male is brought to hospital after eating poisonous mushrooms rich in alkaloid muscarine. Which one of the following signs is seen ?

(1) Bradycardia

(2) Dilatation of pupil

(3) Skeletal muscle contraction

(4) Hypertension

95. Buffers are solutions having as composition

(1) a pair of strong acid and strong base

(2) a pair of weak acid and its salts with a strong base

(3) a pair of weak acid and weak base

(4) a pair of two weak bases

96. Vitamin K is directly involved with the following enzymatic action :

(1) Synthesis of prothrombin

(2) Activation of factor X

(3) Conversion of fibrinogen to fibrin

(4) Regulation of blood calcium

97. Which is the active form of vitamin D ?

(1) Calcitonin

(2) 1,25-dihydroxycholecalciferol

(3) 7-dehydrocholesterol

(4) Ergosterol

98. What is the vitamin synthesised from an amino acid, Tryptophan ?

(1) Ascorbic acid

(2) Pantothenic acid

(3) Nicotinic acid

(4) Folic acid

99. Which of the following is necessary for the emulsification of lipids ?

(1) Cholesterol

(2) Bile pigments

(3) Bile salts

(4) Steroids

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100. McArdle's disease is caused due to deficiency of

(1) Glycogen synthase

(2) Branching enzyme

(3) Debranching enzyme

(4) Glycogen phosphorylase

101. The number of hydrogen bonds present between the pairs of guanosine nucleotide and cytosine nucleotide is/are

(1) two

(2) one

(3) four

(4) three

102. The end product of purine catabolism in other mammals except man is

(1) Uric acid

(2) Allantoin

(3) Ammonia

(4) Creatinine

103. Kidneys contribute to Acid – Base balance by

(1) regulating $pCO_2$

(2) decreased carbon dioxide uptake

(3) increased ketogenesis

(4) secretion of ammonia

104. Calcium is required for the activation of enzyme

(1) Isocitrate dehyrogenase

(2) ATPase

(3) Fumerase

(4) Succinate thiokinase

105. The most prominent cause of dehydration i

(1) excessive heat

(2) low intake of water

(3) frequent urination

(4) diarrhoea and vomiting

106. Acid phosphatase levels are increased in

(1) Brain tumour

(2) Prostatic cancer

(3) Lung cancer

(4) Breast cancer

107. Infant death below 3 years occurs in following glycogen storage disorders :

(1) Type I

(2) Type II

(3) Type V

(4) Type VIII

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108. The link between urea cycle and citric acid cycle is due to formation of

(1) Arginine

(2) Ornithine

(3) Citrocillin

(4) Fumarate

109. Most naturally occurring DNA molecules are

(1) relaxed coiled

(2) not coiled

(3) positively super coiled

(4) negatively super coiled

110. Negative nitrogen balance is produced in humans by elimination from the diet of all the following *except*

(1) Leucine

(2) Serine

(3) Lysine

(4) Threonine

111. Most important compensation mechanism in metabolic acidosis is

(1) Hyperventilation

(2) Increased $NH_3$ excretion by kidneys

(3) Increased urinary phosphates

(4) Increased $HCO_3$ production

112. During conversion of acetyl-CoA to ketone bodies, the intermediate compound is

(1) phosphotidic acid

(2) phophotidylinositol

(3) 3-hydroxy 3-methyl glutaryl CoA

(4) 2-monoglyceride

113. Chronic complication in diabetes mellitus is due to

(1) enzyme protein glycation

(2) decreased production of sorbitol

(3) decreased levels of myo-inositol

(4) increased levels of myo-inositol

114. The transport of glucose is facilitated by *GLUT* in the following organ :

(1) Brain

(2) Heart

(3) Liver

(4) Intestine

115. The conversion of cholecalciferol occurring in liver is by

(1) 1-alpha hydroxylation

(2) 1,25-hydroxylation

(3) 4-hydroxylation

(4) 25-hydroxylation

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116. Actions of pilocarpine include all the following *except*

(1) Sweating

(2) Salivation

(3) Miosis

(4) Cycloplegia

117. All are true of nitrous oxide anesthesia *except*

(1) rapid on set and rapid recovery

(2) chances of hypoxia

(3) very good analgesic

(4) very good muscle relaxant

118. Use of morphine is indicated in the following condition :

(1) Head injury

(2) Acute myocardial infarction

(3) Acute abdominal pain before diagnosis

(4) Bronchial asthma

119. One of the following is a non-benzodiazepine sedative hypnotic :

(1) Clonazepam

(2) Oxazepam

(3) Nitrazepam

(4) Zolpidem

120. Which of the following terms best describes a drug that blocks the actions of epinephrine at its receptors by occupying those receptors without activating them ?

(1) Pharmacological antagonist

(2) Physiological antagonist

(3) Partial agonist

(4) Non-competitive antagonist

121. Umbilical cord has at birth

(1) two arteries + one vein

(2) two arteries + two veins

(3) one artery + two veins

(4) all arteries only

122. Functional unit of kidney is

(1) Osteon

(2) Nephron

(3) Neuron

(4) Tubule

123. Abduction at shoulder joint is produced by

(1) Deltoid muscle

(2) Infra spinatus

(3) Teres major

(4) Teres minor

124. All of the following structures traverse th free margin of the lesser omentum *except*

(1) Portal vein

(2) Inferior vena cava

(3) Hepatic artery

(4) Bile duct

125. The structure to be protected while ligati uterine arteries during hysterectomy, is

(1) Inferior vesical artery

(2) Middle rectal artery

(3) Ureter

(4) Pelvic splanchnic nerves

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126. Maturation of the spermatozoa

(1) occurs in the testes

(2) involves changes in contents of DNA

(3) involves the process of capacitation

(4) requires prostaglandins

127. Collecting ducts of the nephron of the kidney develop from

(1) Ureteric bud

(2) Metanephric tubules

(3) Mesonephric tubules

(4) Paramesonephric duct

128. Normal position of uterus in pelvis is

(1) ante version and ante flexion

(2) retro version and retro flexion

(3) mid position

(4) ante version and retro flexion

129. Blood is brought to liver by

(1) Hepatic vein

(2) Portal vein

(3) Phrenic veins

(4) Azygos vein

130. Gastric motility is enhanced by stimulation of

(1) Vagus nerve

(2) Phrenic nerve

(3) Sympathetic nerves

(4) Trigeminal nerve

131. Enzyme renin is contained in

(1) Lacis cells

(2) Macula densa cells

(3) Proximal convoluted tubular cells

(4) Juxtaglomerular cells

132. Thromboxane A2 is produced mainly by one of the following :

(1) Damaged tissue

(2) Liver

(3) Platelets

(4) Vascular endothelium

133. Fragmented red blood cells are ***not*** found in one of the following :

(1) Vasculitis

(2) Idiopathic thrombocytopenic purpura

(3) Malignant hypertension

(4) Disseminated intravascular clotting

134. Cheyne-Stokes breathing is seen in all of the following conditions *except*

(1) High altitude

(2) Left ventricular failure

(3) Diabetes mellitus

(4) Voluntary hyperventilation

135. All of the following parameters can be estimated by spirometer *except*

(1) forced expiratory volume

(2) total lung capacity

(3) vital capacity

(4) peak expiratory flow rate

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136. Which of the following sensations is most affected by cortical lesion ?

(1) Temperature
(2) Crude touch
(3) Proprioception
(4) Itch

137. Reabsorption of one of the following substances in renal tubules is ***not*** subjected to physiological regulation :

(1) Glucose
(2) Sodium
(3) Potassium
(4) Water

138. Increasing the after load in the muscle has all but one of the following effects :

(1) Decreases the velocity of shortening
(2) Increases the force generation during shortening
(3) Increases the amount of shortening
(4) Increases the interval between excitation and shortening

139. Lysis of red blood cells to oxidant stress, a side-effect of many drugs, is most likely due to

(1) deficiency of 2,3-DPG
(2) deficiency of reduced glutathione
(3) deficiency of G-6PD (glucose 6-phosphate dehydrogenase)
(4) lack of hexokinase

140. If a patient is unable to hear high frequency sounds, the damage to the basilar membrane is closest to which of the following ?

(1) Helicotrema
(2) Oval window
(3) Stria vascularis
(4) Modiolus

141. A wave in Electroretinogram is caused by the activity of one of the following :

(1) Ganglion cell layer
(2) Nerve fibre layer
(3) Rods and cones
(4) Pigment epithelium

142. A patient with history of malnutrition presents with swelling of ankles and bloated abdomen. The bloated abdomen may be due to one of the following :

(1) Decreased capillary colloidal osmotic pressure
(2) Increased intestinal gas
(3) Slow and chronic abdominal haemorrhage
(4) Increased capillary hydrostatic pressure

143. Place theory is concerned with one of the following :

(1) Mechanism of colour vision
(2) Mechanism of pitch discrimination
(3) Mechanism of image formation
(4) Mechanism of perception of taste sensation

144. Which one of the following is ***not*** autoimmune disease ?

(1) Multiple sclerosis
(2) Insulin dependent diabetes mellitus
(3) Rheumatoid arthritis
(4) Hypothyroidism

145. All of the following except one increase gastric secretions :

(1) Vagal stimulation
(2) Gastrin
(3) Stomatostatin
(4) Histamine

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146. Respiratory distress syndrome in infants is caused by insufficient secretion of one of the following :

(1) Phosphatidylinositol

(2) Cholesterol

(3) Sphingomyelin

(4) Dipalmitylphosphatidylcholine

147. Phasic blood flow occurs in which one of the following ?

(1) Brain

(2) Liver

(3) Heart

(4) Kidney

148. Gastro intestinal hormones are the following *except*

(1) Glucagon

(2) Serotonin

(3) Cholecystokinin-P2

(4) Vasoactive intestinal peptide

149. In one of the following sensory receptors, $K^+$ influx produces receptor potentials :

(1) Olfaction

(2) Audition

(3) Taste

(4) Touch

150. The earliest manifestation of hypofunction of bone marrow is reflected in

(1) Lower red cell count

(2) Leukopenia

(3) Decline in reticulocyte count

(4) Appearance of thrombocytopenia

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