<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>1.</strong> Blood groups A1 and A2 are differentiated on the basis of:</td>
<td><strong>7.</strong> Nerve impulse commences at:</td>
</tr>
<tr>
<td>- (a) Antigenic structure</td>
<td>- (a) Cell body</td>
</tr>
<tr>
<td>- (b) Configuration of antigen</td>
<td>- (b) Dendrite</td>
</tr>
<tr>
<td>- (c) Number of antigenic sites on RBC</td>
<td>- (c) Initial segment</td>
</tr>
<tr>
<td>- (d) Structure of hemoglobin</td>
<td>- (d) Node of Ranvier</td>
</tr>
<tr>
<td><strong>2.</strong> Length of the sperm is:</td>
<td><strong>8.</strong> Angiotensin I is converted into Angiotensin II in:</td>
</tr>
<tr>
<td>- (a) 25 microns</td>
<td>- (a) Lungs</td>
</tr>
<tr>
<td>- (b) 50 microns</td>
<td>- (b) Liver</td>
</tr>
<tr>
<td>- (c) 100 microns</td>
<td>- (c) Kidney</td>
</tr>
<tr>
<td>- (d) 200 microns</td>
<td>- (d) Peripheral tissue</td>
</tr>
<tr>
<td><strong>3.</strong> Total lungs capacity in an adult:</td>
<td><strong>9.</strong> All are true about REM sleep, except:</td>
</tr>
<tr>
<td>- (a) 3-4L</td>
<td>- (a) Active dreaming</td>
</tr>
<tr>
<td>- (b) 4-5L</td>
<td>- (b) Eye movements present</td>
</tr>
<tr>
<td>- (c) 6-7L</td>
<td>- (c) Characterized by PGO spikes in EEG</td>
</tr>
<tr>
<td>- (d) 7-8L</td>
<td>- (d) Increase in voluntary movements</td>
</tr>
<tr>
<td><strong>4.</strong> True statement about J receptor:</td>
<td><strong>10.</strong> In the foetus, most of the erythropoietin is secreted by:</td>
</tr>
<tr>
<td>- (a) Located in the airway epithelial cells</td>
<td>- (a) Liver</td>
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<tr>
<td>- (b) Related to the Hering-Breuer deflation reflex</td>
<td>- (b) Kidney</td>
</tr>
<tr>
<td>- (c) Stimulated by hyperinflation of lung</td>
<td>- (c) Lungs</td>
</tr>
<tr>
<td>- (d) Causes increase in bronchial diameter</td>
<td>- (d) Yolk sac</td>
</tr>
<tr>
<td><strong>5.</strong> In order to minimize oxygen debt, athletes prior to exercise are advised to take:</td>
<td><strong>11.</strong> Clotting of the blood in a test tube is initiated by:</td>
</tr>
<tr>
<td>- (a) Carbohydrate</td>
<td>- (a) Factor XII</td>
</tr>
<tr>
<td>- (b) Protein</td>
<td>- (b) Factor III</td>
</tr>
<tr>
<td>- (c) Fat</td>
<td>- (c) Factor VII</td>
</tr>
<tr>
<td>- (d) High calorie diet</td>
<td>- (d) Factor X</td>
</tr>
<tr>
<td><strong>6.</strong> Androgen is secreted by:</td>
<td><strong>12.</strong> Obstruction of hypothalamic hypophyseal portal system causes increase secretion of:</td>
</tr>
<tr>
<td>- (a) Seminiferous tubule</td>
<td>- (a) GH</td>
</tr>
<tr>
<td>- (b) Leydig cells</td>
<td>- (b) FSH</td>
</tr>
<tr>
<td>- (c) Rete testis</td>
<td>- (c) LH</td>
</tr>
<tr>
<td>- (d) Sertoli cells</td>
<td>- (d) Dopamine</td>
</tr>
</tbody>
</table>
13. Oxyntic cell found in:
   (a) Stomach  
   (b) Jejunum  
   (c) Colon  
   (d) Duodenum

14. Which one is excitatory neurotransmitter?
   (a) Acetylcholine  
   (b) Histamine  
   (c) Melatonin  
   (d) GABA

15. ADH acts on:
   (a) Collecting duct  
   (b) Distal convoluted tubule  
   (c) Proximal convoluted tubule  
   (d) Loop of Henle

16. During systole blood flow is increased in all, except:
   (a) Renal arteries  
   (b) Coronary arteries  
   (c) Carotid arteries  
   (d) Pulmonary arteries

17. During exercise all are seen, except:
   (a) Increased BP and HR  
   (b) Abnormal ECG  
   (c) Hemoconcentration  
   (d) Body temperature rise

18. Which of the following activity causes EEG wave?
   (a) Parietal cortex  
   (b) Depolarization of ganglion cell  
   (c) Axonal transmission  
   (d) EPSP and LPSP

19. All are involved on pain inhibiting system, except:
   (a) Sensory cortex  
   (b) Periaqueductal gray matter  
   (c) Dorsal raphe nucleus  
   (d) Dorsal horn of spinal cord

20. Hyperglycemia is associated with decreased secretions of all of the following, except:
   (a) Insulin  
   (b) GH  
   (c) Glucagon  
   (d) Epinephrine

21. Insulin causes all of the following, except:
   (a) Increases glucose uptake and utilization  
   (b) Increases amino acid uptake  
   (c) Forces K\(^+\) into ICF  
   (d) Increases utilization of fat

22. Total amount of thyroxin (T4) hormone secreted per day is:
   (a) 50–100 mg  
   (b) 100–150 mg  
   (c) 150–200 mg  
   (d) 200–250 mg

23. Action potential is due to:
   (a) Na\(^+\) influx  
   (b) K\(^+\) efflux  
   (c) Na\(^+\) influx and K\(^+\) efflux  
   (d) None of the above

24. Total fluid secreted through gastrointestinal tract is:
   (a) 9 L  
   (b) 11 L  
   (c) 8 L  
   (d) 7 L

25. Total lungs capacity depends upon:
   (a) Closing volume  
   (b) Lung compliance  
   (c) Residual volume  
   (d) Maximal breathing capacity

26. GFR is measured by:
   (a) Creatinine  
   (b) Inulin  
   (c) Para amino hippurate  
   (d) Intravenous dye
27. Oxygen-hemoglobin dissociation curve shifts to right in:
   (a) Low pH
   (b) Increased temperature
   (c) Respiratory alkalosis
   (d) Reduced 2,3-DPG

28. Oxygen dissociation is most at:
   (a) pH 6.8
   (b) pH 7.8
   (c) pH 9
   (d) None of the above

29. Action of glucocorticoids on carbohydrate metabolism:
   (a) Decreased formation of the active form of glycogen synthase
   (b) Decreased glucose output
   (c) Increased glucose uptake in peripheral tissue
   (d) Increased neoglucogenesis

30. All of the following mediator alter the GFR, except:
   (a) Endothelin 1
   (b) Prostaglandin
   (c) Epinephrine
   (d) Glucagon

31. Regarding respiratory centre, true the among following is:
   (a) It is located in the reticular formation in the medulla, pons, hypothalamus
   (b) It stimulates respiratory muscle during expiration
   (c) Respiratory control pattern generator located in pons
   (d) During artificial respiration it is activated

32. Fasciculus gracilis and fasciculus cuneatus carries:
   (a) Touch
   (b) Pain
   (c) Temperature
   (d) Vibration

33. Calcium is stored in:
   (a) T-tubule
   (b) Sarcoplasmic reticulum

   (c) Terminal cistern
   (d) All of the above

34. Which one of these is absorbed in ilium:
   (a) Bile salt
   (b) Vitamin D
   (c) Iron
   (d) Fat

35. Glucose is mostly absorbed in:
   (a) Proximal convoluted tubule
   (b) Loop of Henle
   (c) Distal convoluted tubule
   (d) Collecting duct

36. Absolute erythrocytosis occurs in all, except:
   (a) High altitude
   (b) Polycythemia vera
   (c) Dehydration
   (d) Recombinant erythropoietin therapy

37. Gap junction in cardiac muscle acts to:
   (a) Spread of impulse
   (b) Anchoring with other cells
   (c) Regulate passage of large molecules
   (d) Regulate passage of molecules from ECF to cells

38. \( O_2 \) affinity of HbF is greater due to:
   (a) Decreased binding with 2,3-DPG
   (b) Increased binding with 2,3-DPG
   (c) Conformational change in the apoprotein due to oxygenation
   (d) Presence of histidine H21 residue

39. Content of glucose in synovial fluid:
   (a) No glucose
   (b) Lower than plasma
   (c) Equal to plasma
   (d) More than plasma

40. Swallowing centre located in:
   (a) Medulla
   (b) Pons
   (c) Midbrain
   (d) Thalamus
41. An athlete should do 2-3 days before participating in a competition:
   (a) Rest and carbohydrate
   (b) Rest and fatty acid
   (c) Exercise and fat
   (d) Exercise and protein

42. All are synthesized by endothelium, except:
   (a) NO
   (b) EDRF
   (c) Prostaglandin
   (d) Factor X

43. All are received by free nerve endings, except:
   (a) Temperature
   (b) Crude touch
   (c) Pressure
   (d) None

44. All are mediated by parasympathetic supply, except:
   (a) Erection of penis
   (b) Ejaculation
   (c) Sweating
   (d) Urination

45. Source of $K^+$ in urine is mainly from:
   (a) Secretion of proximal convoluted tubule
   (b) Secretion of distal convoluted tubule
   (c) Secretion of collecting duct
   (d) Secretion of ascending loop of Henle

46. Fenestrated vessels are found in:
   (a) Kidney
   (b) Brain
   (c) Lungs
   (d) Intestine

47. Which is not true about acidophil cells of pituitary?
   (a) TSH secretion
   (b) Somatotropic hormone secretion
   (c) Prolactin secretion
   (d) Neuroectodermal origin

48. In RBC, which of the following enters via facilitated diffusion:
   (a) Glycine
   (b) Glucose
   (c) Oxygen
   (d) $Na^+$

49. Which micronutrient deficiency is associated with glucose tolerance?
   (a) Magnesium
   (b) Manganese
   (c) Copper
   (d) Zinc

50. Hematocrit is:
   (a) 3% more venous blood
   (b) 3% more in arterial blood
   (c) Same
   (d) Variable
1. Chromatolysis is seen in:
   (a) Nissl substance
   (b) Mitochondria
   (c) Microtubule
   (d) Golgi body

2. GABA is produced from:
   (a) Alanine
   (b) Glycine
   (c) Glutamate
   (d) Glutamine

3. Intracellular fluid (ICF) volume is .......% of total body weight
   (a) 20
   (b) 40
   (c) 30
   (d) 60

4. Stored calcium of sarcoplasmic reticulum mainly causes initiation of muscle contraction via T-system activation in:
   (a) Skeletal muscle
   (b) Cardiac muscle
   (c) Visceral smooth muscle
   (d) All of the above

5. Maximum blood supply per 100 gm of tissue
   (a) Kidney
   (b) Liver
   (c) Brain
   (d) Heart

6. Most important function of basal ganglia
   (a) Planning and programming of voluntary movement
   (b) Helps to configure the activity of overlying motor cortex
   (c) Maintenance of equilibrium
   (d) Maintenance of muscle tone

7. Parathyroid hormone secretion mainly depends on:
   (a) Serum calcium
   (b) Serum phosphate
   (c) 1.25 dihydroxycholecalciferol
   (d) Serum calcitonin

8. Gaseous exchange of oxygen occurs at the alveoli by means of:
   (a) Simple diffusion
   (b) Facilitated diffusion
   (c) Active transport
   (d) Passive transport

9. Oxygen tension is more on the venous side than arterial side in case of:
   (a) CO poisoning
   (b) CN poisoning
   (c) Decreased cardiac output
   (d) Congestive Cardiac failure

10. The mossy fibres terminate in:
    (a) Purkinje layer
    (b) Granular layer
    (c) Basket cell layer
    (d) Molecular layer

11. Which of the following is responsible for cell membrane stability?
    (a) Na
    (b) K
    (c) Ca
    (d) Mg

12. Sertoli cells secrete all, except:
    (a) Estrogen
    (b) Androgen
    (c) MIS
    (d) Inhibin
13. Which of the following is not a cell adaptation?
   (a) Hypertrophy
   (b) Hyperplasia
   (c) Dysplasia
   (d) Metaplasia

14. Which of the following causes bronchodilation?
   (a) Beta 1 receptors
   (b) Noncholinergic and nor adrenergic system
   (c) Exercise
   (d) Acetylcholine acting through muscarinic receptors

15. Conduction velocity is least in:
   (a) AV node
   (b) Purkinje fibers
   (c) Ventricles
   (d) Bundle of His

16. A2 occurs earlier than P2 because:
   (a) Pulmonary impedance is low
   (b) Pulmonary artery is larger
   (c) Pulmonary capacitance is low
   (d) Low systemic resistance

17. Which of the following doesn’t have the same pathway?
   (a) Accommodation and long ciliary nerve
   (b) Salivatory nucleus and lacrimation
   (c) Lateral geniculate body and auditory pathway
   (d) Greater petrosal nerve and gustatory pathway

18. QT interval in ECG means:
   (a) Ventricular depolarisation
   (b) Atrial repolarisation
   (c) Ventricular depolarization plus ventricular repolarisation
   (d) Ventricular depolarization plus atrial repolarisation

19. Which is not a stimulant for the production of 1,25-dihydrocholecalciferol?
   (a) Thyroid hormone
   (b) Parathyroid hormone
   (c) Hypocalcemia
   (d) hypophosphatemia

20. True facts about leptin are all of the following except:
   (a) Associated with puberty
   (b) Secreted from adipose tissue
   (c) Increased insulin resistance
   (d) Decreased hunger

21. Testosterone is not responsible for:
   (a) Sexual differentiation
   (b) Sexual maturation at puberty
   (c) Gonadotrophin regulation
   (d) Spermatogenesis

22. Most important regulator of PTH hormone secretion is:
   (a) calcitonin
   (b) vitamin D3
   (c) Ca$^{++}$
   (d) Mg$^{++}$

23. Which of the following is not the correct pair?
   (a) Lingual lipase — works in stomach
   (b) Renin — milk coagulation
   (c) Pancreatic amylase — starch digestion
   (d) Zymogen granules — chymotrypsin

24. The 4th heart sound correlates with:
   (a) 1st rapid filling phase
   (b) 2nd rapid filling phase
   (c) Atrial filling
   (d) Ventricular filling

25. Atrial systole coincides with which phase of ventricular diastole?
   (a) Diastasis
   (b) Isovolumetric relaxation
   (c) 1st rapid filling phase
   (d) Last rapid filling phase

26. Carotid massage causes:
   (a) HR, " Aortic pressure
   (b) HR, Aortic pressure
   (c) “ HR, Aortic pressure
   (d) “ HR, “ Aortic pressure
27. Satiety center is located in
   (a) Ventromedian nucleus
   (b) Lateral hypothalamus
   (c) Paraventricular nuclei
   (d) Supraoptic nuclei

28. Prostaglandins in semen is secreted by:
   (a) Prostate gland
   (b) Seminal vesicles
   (c) Sertoli cells
   (d) Interstitial cells of Leydig

29. Bicarbonate is maximally absorbed from:
   (a) PCT
   (b) DCT
   (c) Collecting disc
   (d) Thick ascending loop of tchecke

30. Ghrelin is secreted from:
   (a) Endocrinial cells of the pancreas
   (b) Epithelium of the fundus
   (c) Epithelium of the antrum
   (d) Epithelial cells of the jejunum

31. Clonus is due to:
   (a) Inhibition of stretch reflex
   (b) Facilitation of stretch reflex
   (c) Loss of stretch reflex
   (d) Due to LMN lesion

32. Sympathetic stimulation causes all, except:
   (a) Increase in heart rate
   (b) Increase in blood pressure
   (c) Increase in total peripheral resistance
   (d) Increase in venous capacitance

33. In moderate exercise, tachypnoea is due to:
   (a) Propioception receptor in the joints
   (b) Increase PCO in arterial blood
   (c) Increase PO in arterial blood
   (d) J-receptor stimulation

34. Total lungs capacity depends upon:
   (a) Size of airway
   (b) Closing tidal volume

35. During isovolumetric contractions phase:
   (a) A.V. closed and semilunar valve phase
   (b) A.V. open and semilunar valve open
   (c) A.V. closed and semilunar valve closed
   (d) Blood ejected in aortic and pulmonary vessels

36. GFR depends upon:
   (a) Renal blood flow
   (b) Bowman’s capsule
   (c) Capillary pressure
   (d) Foot process

37. Resting membrane potential in nerve fibre:
   (a) is equal to the potential of ventricular fibre
   (b) can be measured by surface electrodes
   (c) increases as extra cellular K increases
   (d) depends upon K equilibrium

38. Lesion in Inferior frontal gyri shows:
   (a) Difficulty in articulation
   (b) Compromised language output
   (c) Inability to comprehended written language
   (d) Inability to comprehended hearing

39. Sudden cessation of respiration at terminal stage shows:
   (a) Dynamic compression of airway
   (b) Collapsed alveoli
   (c) Expiratory muscle fatigue
   (d) Breaking action of inspiratory muscle

40. Afferent fibre cremastric reflex is:
   (a) Ilioinguinal nerve
   (b) Iliohypogastric
   (c) Genitofemoral
   (d) Pudendal nerve
41. In voluntary hyperventilation muscle sprain is due to:
   (a) Sympathetic stimulation cause release of acetylcholine at neuromuscular junction
   (b) Decrease of Ca++ in serum
   (c) Increase of Ca++ in serum
   (d) Increase actin and myosin ratio

42. Gonadal function is regulated by:
   (a) Anterior hypothalamus
   (b) Posterior hypothalamus
   (c) Anterior pituitary
   (d) Posterior pituitary

43. Climbing fibers are:
   (a) Output fibre
   (b) Excitatory fibre
   (c) Comes from superior olivary nucleus
   (d) Comes from multiple source

44. aqueous humor differs from blood in:
   (a) Lactate
   (b) Protein
   (c) IgB
   (d) IgA

45. Which is different between hepatic bile and gall bladder bile?
   (a) Cholesterol
   (b) Bile salt
   (c) Bile acid
   (d) Bicarbonates

46. Gastrin hormone regulate the gastric acid secretion at site of:
   (a) 1st part of duodenum
   (b) Pyloric canal
   (c) Antrum
   (d) Gastric cardia

47. In Intestine, M cells secrete:
   (a) Mucous secreting glands
   (b) Meisner plexus cells
   (c) Antigen presenting cells
   (d) All of the above

48. True about Nitric oxide is:
   (a) Synthesized from arginine
   (b) Spontaneous production from NO2
   (c) Vasoconstriction
   (d) Released from mitochondria

49. On repeated stimulation, pain sensation increases, because:
   (a) Increase in threshold of pain
   (b) Decrease receptive area
   (c) Decrease reflex time
   (d) Hypersensitization

50. Miniature end plate potential is:
   (a) Inhibited by anticholinesterase
   (b) Occurs in resting muscle
   (c) Causes depolarization of muscle
   (d) Occurs in working muscle
1. Precapillary sphincter relaxation occurs due to:
   (a) Local hormone
   (b) Sympathetic stimulation
   (c) Axon reflex
   (d) Catecholamines

2. Autoregulation means:
   (a) Maintainance the blood flow
   (b) Vary with change in pressure
   (c) Regulated by local metabolites
   (d) Well-developed in the skin

3. During exercise, following physiological changes occurs to increases oxygen demand by muscles except:
   (a) Increased oxygen extraction
   (b) Shift to left of oxygen dissociation curve
   (c) Increased stroke volume
   (d) Shift of blood supply to muscle

4. Creatine is:
   (a) Muscle protein
   (b) Release from acetylcholine in the muscle
   (c) Provide energy in the muscle
   (d) Synthesized in the muscle

5. Tetrodoxin blocks:
   (a) Increase Na⁺ during action potential
   (b) Increase K⁺ during action potential
   (c) Na⁺ during resting state
   (d) K⁺ during resting state

6. Shivering is controlled by:
   (a) Anterior hypothalamus
   (b) Posterior hypothalamus
   (c) Cerebellum
   (d) Medulla

7. All are associated with nerve transmission, except:
   (a) Na⁺
   (b) K⁺
   (c) Cl⁻
   (d) Mg⁺

8. Best indicator of iron deficiency is:
   (a) Serum transferin level
   (b) Serum iron level
   (c) Serum ferritin level
   (d) TIBC

9. Promotor of platelet aggregation is:
   (a) Thromboxane A₂
   (b) ADP
   (c) Interleukin
   (d) Thrombin

10. Erythropoisis is promoted by:
   (a) Interleukin-4
   (b) Colony stimulating factor
   (c) Interleukin-5
   (d) GM colony stimulating factor

11. Function of nitric oxide (NO) is all, except:
   (a) Relaxation of vascular smooth muscle
   (b) Vasoconstriction
   (c) Deficiency may cause clinical hypertension
   (d) Can kill cancer cells

12. Increase lactic acid in aquous humour is found in:
   (a) Aphakia
   (b) Ectopia - lentis
   (c) Traumatic dislocation of lens
   (d) Senile cataract

13. True facts about protein is all of the following Except:
   (a) Primary structure is due to AA-sequence
   (b) Synthesised in pancreas
   (c) Gamma – globulins are synthesized in plasma
   (d) Total exchangeable albumin is 4.5 gm/Kg weight
14. Truth about growth hormone is:
   (a) Growth hormone cluster is present on 17 chromosomes
   (b) Inhibited by somatostatin/cortisol
   (c) Inhibits secretion of somatomedin
   (d) It is a catabolic hormone

15. Insulin causes all of the following except:
   (a) Increase glycogen synthesis
   (b) Increase protein synthesis
   (c) Lipolysis
   (d) Increased potassium uptake

16. Increase basal body temperature during ovulation is due to:
   (a) LH surge
   (b) Estrogen
   (c) Progesterone
   (d) Thyroxine

17. Capacitance of sperm is attained in:
   (a) Epididymis
   (b) Genital tract
   (c) Vagina
   (d) Fallopian tube

18. Following statements about Barr body are true, except:
   (a) One Barr body is present in males
   (b) Inactive X-chromosome condenses and seen usually near the nuclear membrane
   (c) Barr body for each X-chromosome in ex cess of one in the cell
   (d) ‘Drumstick’ chromatin projecting from the nuclei of 1–15% of polymorphonuclear leucocytes in males

19. The mechanism of action of acid secretion in stomach is by:
   (a) Passive diffusion
   (b) Active secretion
   (c) H⁺ - Na⁺ ATPase dependent
   (d) Bicarbonate is exchanged for K⁺

20. Bohr effect is related with:
   (a) pH and O₂ affinity
   (b) CO₂ level and O₂ affinity
   (c) Temperature and O₂ affinity
   (d) 2,3-DPG and O₂ affinity

21. Blood pressure is due to:
   (a) Lateral pressure in vessel wall
   (b) Blood flow
   (c) Blood viscosity
   (d) Vascular resistance

22. Increased vagal tone causes:
   (a) AV conduction
   (b) Ectopic beats
   (c) Ventricular contractility
   (d) Refractory period of atria

23. 1°C rise in temperature of body, the energy consumption increases by:
   (a) 1%
   (b) 2%
   (c) 14%
   (d) 10%

24. Function of renal tubules is assessed by all, except:
   (a) EDTA
   (b) Para amino hippuric acid
   (c) Potassium ferric ferrocyanide
   (d) Inulin clearance

25. Requirement of folic acid during pregnancy is:
   (a) 300 mg
   (b) 500 mg
   (c) 600 mg
   (d) 1 gm

26. Renin is inhibited by:
   (a) Cirrhosis
   (b) Exercise
   (c) Hypervolemia
   (d) Cardiac
### Test Papers for Practice

#### Physiology

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
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</table>
| 27. Pseudohyponatremia is found in all, except: | (a) Severe hyperlipemia  
(b) Extreme hyperproteinemia  
(c) Aldosterone excess  
(d) Hypothyroidism |
| 28. Urinary sodium excretion is due to: | (a) SIADH  
(b) Aldosterone deficiency  
(c) CHF  
(d) Shock |
| 29. Organ of corti is stimulated by: | (a) Sodium influx  
(b) Potassium influx  
(c) Sodium efflux  
(d) Potassium efflux |
| 30. Type ‘C’ fibre are: | (a) Extrafusal fibre  
(b) Small unmyelinated fibre  
(c) Large myelinated fibre  
(d) Primary concern with touch sensation |
| 31. Maximum resistance is found in: | (a) Aorta  
(b) Arteries  
(c) Arterioles  
(d) Precapillary sphinctor |
| 32. Intestinal motility is caused by all Except: | (a) Gastrin  
(b) Glucagon  
(c) Cholecystokinin  
(d) Serotonin |
| 33. Golgi-tendon reflex is: | (a) Monosynaptic  
(b) Bisynaptic  
(c) Polysynaptic  
(d) Reflex-centre situated in medulla |
| 34. Small airway resistance is best measured by: | (a) FEV₁  
(b) Closing volume  
(c) Total lung capacity  
(d) Tidal volume |
| 35. Sperm become motile in: | (a) Testis  
(b) Epididymus  
(c) Vas-deference  
(d) Seminal vesicle |
| 36. APUD cells are: | (a) Clera cells  
(b) Parietal cells  
(c) Kulchitsky cells  
(d) Pneumocyte II cells |
| 37. Parietal cells secretes: | (a) Pepsinogen  
(b) HCl  
(c) Mucous  
(d) Pepsin |
| 38. In brain phagocytes is: | (a) Astrocytes  
(b) Microglia  
(c) Oligodendrocytes  
(d) Dendrites |
| 39. All are true about Renin-Except: | (a) Secreted by Juxtraglomerular cells  
(b) Converts angiotensinogen to angiotensin I  
(c) Fall in blood pressure stimulates rennin secretion  
(d) Angiotensin II is a vasodilator |
| 40. Rapid repolarisation phase in action potential in cardiac muscle is due to: | (a) Decrease permeability of K⁺  
(b) Decreases intracellular Ca"⁺  
(c) Na⁺, K⁺ pump inactivation  
(d) Closure of the Na⁺ channels |