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MPA-25

प्रश्न-पुस्तिका संख्या व बारकोड /
Question Booklet No. & Barcode

इस प्रश्न-पुस्तिका को तब तक न खोलें जब तक
कहा न जाए। Do not open this Question
Booklet until you are asked to do so.

पुस्तिका में पृष्ठों की संख्या : 24
Number of Pages in Booklet : 24
पुस्तिका में प्रश्नों की संख्या : 150
No. of Questions in Booklet : 150



Paper Code : 83

Sub : Geriatrics

समय : 02:30 घण्टे + 10 मिनट अतिरिक्त* Exam Date 04/07/2025
Time : 02:30 Hours + 10 Minutes Extra*

अधिकतम अंक : 150

Maximum Marks : 150

प्रश्न-पुस्तिका के पेपर की सील/पोलिथीन बैग को खोलने पर प्रश्न-पत्र हल करने से पूर्व परीक्षार्थी यह सुनिश्चित कर लें कि :

- प्रश्न-पुस्तिका संख्या तथा ओ.एम.आर. उत्तर-पत्रक पर अंकित बारकोड संख्या समान हैं।
- प्रश्न-पुस्तिका एवं ओ.एम.आर. उत्तर-पत्रक के सभी पृष्ठ व सभी प्रश्न सही मुद्रित हैं। समस्त प्रश्न, जैसा कि ऊपर वर्णित है, उपलब्ध हैं तथा कोई भी पृष्ठ कम नहीं है / मुद्रण त्रुटि नहीं है। किसी भी प्रकार की विषमगति या दोषपूर्ण होने पर परीक्षार्थी यीक्षक से दूसरा प्रश्न-पत्र प्राप्त कर लें। यह सुनिश्चित करने की जिम्मेदारी अभ्यर्थी की होगी। परीक्षा प्रारम्भ होने के 5 मिनट पश्चात् ऐसे किसी दावे/आपत्ति पर कोई विचार नहीं किया जायेगा।

On opening the paper seal/polythene bag of the Question Booklet before attempting the question paper, the candidate should ensure that :

- Question Booklet Number and Barcode Number of OMR Answer Sheet are same.
- All pages & Questions of Question Booklet and OMR Answer Sheet are properly printed. All questions as mentioned above are available and no page is missing/misprinted.

If there is any discrepancy/defect, candidate must obtain another Question Booklet from Invigilator. Candidate himself shall be responsible for ensuring this. No claim/objection in this regard will be entertained after five minutes of start of examination.

परीक्षार्थियों के लिए निर्देश

1. प्रत्येक प्रश्न के लिये एक विकल्प भरना अनिवार्य है।
2. सभी प्रश्नों के अंक समान हैं।
3. प्रत्येक प्रश्न का मात्र एक ही उत्तर दीजिए। एक से अधिक उत्तर देने की दशा में प्रश्न के उत्तर को गलत माना जाएगा।
4. OMR उत्तर-पत्रक इस प्रश्न-पुस्तिका के अन्दर रखा है। जब आपको प्रश्न-पुस्तिका खोलने को कहा जाए, तो उत्तर-पत्रक निकाल कर ध्यान से केवल नीले बॉल पॉइंट पेन से विवरण भरें।
5. कृपया अपना रोल नम्बर ओ.एम.आर. उत्तर-पत्रक पर सावधानीपूर्वक सही भरें। गलत रोल नम्बर भरने पर परीक्षार्थी स्वयं उत्तरदायी होगा।
6. ओ.एम.आर. उत्तर-पत्रक में करेक्शन पेन/व्हाइटनर/सफेदा का उपयोग निषिद्ध है।
7. प्रत्येक गलत उत्तर के लिए प्रश्न अंक का 1/3 भाग काटा जायेगा। गलत उत्तर से तात्पर्य अशुद्ध उत्तर अथवा किसी भी प्रश्न के एक से अधिक उत्तर से है।
8. प्रत्येक प्रश्न के पाँच विकल्प दिये गये हैं, जिनमें क्रमशः 1, 2, 3, 4, 5 अंकित किया गया है। अभ्यर्थी को सही उत्तर निर्दिष्ट करते हुए उनमें से केवल एक गोले (बबल) को उत्तर-पत्रक पर नीले बॉल पॉइंट पेन से गहरा करना है।
9. यदि आप प्रश्न का उत्तर नहीं देना चाहते हैं तो उत्तर-पत्रक में पाँचवें (5) विकल्प को गहरा करें। यदि पाँच में से कोई भी गोला गहरा नहीं किया जाता है, तो ऐसे प्रश्न के लिये प्रश्न अंक का 1/3 भाग काटा जायेगा।
- 10.* प्रश्न-पत्र हल करने के उपरान्त अभ्यर्थी अनिवार्य रूप से ओ.एम.आर. उत्तर-पत्रक जाँच लें कि समस्त प्रश्नों के लिये एक विकल्प (गोला) भर दिया गया है। इसके लिये ही निर्धारित समय से 10 मिनट का अतिरिक्त समय दिया गया है।
11. यदि अभ्यर्थी 10% से अधिक प्रश्नों में पाँच विकल्पों में से कोई भी विकल्प अंकित नहीं करता है तो उसको अयोग्य माना जायेगा।
12. मोबाइल फोन अथवा अन्य किसी इलेक्ट्रॉनिक यंत्र का परीक्षा हॉल में प्रयोग पूर्णतया वर्जित है। यदि किसी अभ्यर्थी के पास ऐसी कोई वर्जित सामग्री मिलती है तो उसके विरुद्ध आयोग द्वारा नियमानुसार कार्यवाही की जायेगी।

चेतावनी : अगर कोई अभ्यर्थी नकल करते पकड़ा जाता है या उसके पास से कोई अनधिकृत सामग्री पाई जाती है, तो उस अभ्यर्थी के विरुद्ध पुलिस में प्राथमिकी दर्ज कराते हुए राजस्थान सार्वजनिक परीक्षा (भर्ती में अनुचित साधनों की रोकथाम अध्यापन) अधिनियम, 2022 तथा अन्य प्रभावी कानून एवं आयोग के नियमों-प्रावधानों के तहत कार्यवाही की जाएगी। साथ ही आयोग ऐसे अभ्यर्थी को भविष्य में होने वाली आयोग की समस्त परीक्षाओं से विवर्जित कर सकता है।

उत्तर-पत्रक में दो प्रतियाँ हैं - मूल प्रति और कार्बन प्रति। परीक्षा समाप्ति पर परीक्षा कक्ष छोड़ने से पूर्व परीक्षार्थी उत्तर-पत्रक की दोनों प्रतियाँ यीक्षक को सौंपेंगे, परीक्षार्थी स्वयं कार्बन प्रति अलग नहीं करें। यीक्षक उत्तर-पत्रक की मूल प्रति को अपने पास जमा कर, कार्बन प्रति को मूल प्रति से कट लाइन से मोड़ कर सावधानीपूर्वक अलग कर परीक्षार्थी को सौंपेंगे, जिसे परीक्षार्थी अपने साथ ले जायेंगे। परीक्षार्थी को उत्तर-पत्रक की कार्बन प्रति चयन प्रक्रिया पूर्ण होने तक सुरक्षित रखनी होगी एवं आयोग द्वारा माँगे जाने पर प्रस्तुत करनी होगी।

INSTRUCTIONS FOR CANDIDATES

1. It is mandatory to fill one option for each question.
2. All questions carry equal marks.
3. Only one answer is to be given for each question. If more than one answers are marked, it would be treated as wrong answer.
4. The OMR Answer Sheet is inside this Question Booklet. When you are directed to open the Question Booklet, take out the Answer Sheet and fill in the particulars carefully with Blue Ball Point Pen only.
5. Please correctly fill your Roll Number in OMR Answer Sheet. Candidates will themselves be responsible for filling wrong Roll No.
6. Use of Correction Pen/Whitener in the OMR Answer Sheet is strictly forbidden.
7. 1/3 part of the mark(s) of each question will be deducted for each wrong answer. A wrong answer means an incorrect answer or more than one answers for any question.
8. Each question has five options marked as 1, 2, 3, 4, 5. You have to darken only one circle (bubble) indicating the correct answer on the Answer Sheet using BLUE BALL POINT PEN.
9. If you are not attempting a question then you have to darken the circle '5'. If none of the five circles is darkened, one third (1/3) part of the marks of question shall be deducted.
- 10.* After solving question paper, candidate must ascertain that he/she has darkened one of the circles (bubbles) for each of the questions. Extra time of 10 minutes beyond scheduled time, is provided for this.
11. A candidate who has not darkened any of the five circles in more than 10% questions shall be disqualified.
12. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt with as per rules.

Warning : If a candidate is found copying or if any unauthorized material is found in his/her possession, F.I.R. would be lodged against him/her in the Police Station and he/she would be liable to be prosecuted under Rajasthan Public Examination (Measures for Prevention of Unfair means in Recruitment) Act, 2022 & any other laws applicable and Commission's Rules-Regulations. Commission may also debar him/her permanently from all future examinations.

1. The initial modality of choice for radiographic evaluation of suspected chronic pancreatitis is
 - (1) Pancreatic function testing
 - (2) Endoscopic ultrasound
 - (3) Abdominal MRI
 - (4) Abdominal CT
 - (5) Question not attempted
2. Aminoglycoside-associated AKI, all are true EXCEPT
 - (1) Non-oliguric AKI (i.e., with a urine volume >400 mL/day) accompanies 10–30% of courses of aminoglycoside antibiotics, even when plasma levels are in the therapeutic range.
 - (2) Aminoglycosides are freely filtered across the glomerulus and then accumulate within the renal cortex.
 - (3) AKI typically manifests after 5–7 days of therapy and can present even after the drug has been discontinued.
 - (4) Hypermagnesemia is a common finding.
 - (5) Question not attempted
3. Which are the required criteria on ultrasonography to diagnose Autosomal dominant polycystic kidney disease in a 65 years old male ?
 - (1) At least two cysts in any kidney (unilateral)
 - (2) At least two cysts in each kidney (bilateral)
 - (3) At least four cysts in any kidney (unilateral)
 - (4) At least four cysts in each kidney (bilateral)
 - (5) Question not attempted
4. Severe hypertriglyceridemia (HTG) is defined by fasting TG levels
 - (1) >200 mg/dL
 - (2) >500 mg/dL
 - (3) >1000 mg/dL
 - (4) >1500 mg/dL
 - (5) Question not attempted
5. Causes of Syndrome of Inappropriate Antidiuresis are all EXCEPT
 - (1) Peripheral neuropathy
 - (2) Pulmonary Tuberculosis
 - (3) Cleft lip/palate
 - (4) Myocardial infarction
 - (5) Question not attempted
6. Vaccine-induced immune thrombocytopenia and thrombosis (VITT) was seen with
 - (1) ChAdOx1-S/nCoV-19 Vaccine
 - (2) Whole inactivated virus based COVID-19 Vaccines
 - (3) mRNA based COVID-19 Vaccines
 - (4) Protein subunit COVID-19 Vaccines
 - (5) Question not attempted
7. Drugs used for treatment of Sickle cell anaemia is
 - (1) Voxelotor
 - (2) Hydroxyurea
 - (3) Crizanlizumab
 - (4) All of these
 - (5) Question not attempted
8. The initial treatment of choice for FMF (Familial Mediterranean Fever) is
 - (1) Cyclosporine
 - (2) Steroid
 - (3) Colchicine
 - (4) NSAIDS
 - (5) Question not attempted

9. ACR/EULAR provisional definition of remission in Rheumatoid Arthritis patient must have a Simplified Disease Activity Index (SDAI) score of
 - (1) ≤ 3.3 (2) > 3.3
 - (3) ≤ 1.1 (4) > 1.1
 - (5) Question not attempted
10. Microscopic polyangiitis is characterized by all except :
 - (1) Glomerulonephritis
 - (2) Pulmonary capillaritis
 - (3) Granulomatous inflammation
 - (4) Associated with ANCA
 - (5) Question not attempted
11. True about cortical venous sinus thrombosis are all EXCEPT
 - (1) Most patients present with headache.
 - (2) Focal neurologic signs especially paraparesis may be present.
 - (3) Heparin therapy doesn't affect venous hypertension.
 - (4) If an underlying hypercoagulable state is not found, oral anticoagulants therapy for 3-6 months is required.
 - (5) Question not attempted
12. What is the frequency of Essential Tremor ?
 - (1) 1-4 Hz (2) 2-6 Hz
 - (3) 6-10 Hz (4) 13-18 Hz
 - (5) Question not attempted
13. World Federation of Neurosurgical Societies (WFNS) Scale is used for grading of
 - (1) Aneurysmal subarachnoid hemorrhage (SAH)
 - (2) Infratentorial hemorrhage
 - (3) Intracerebral hemorrhage
 - (4) Subdural hemorrhage
 - (5) Question not attempted
14. Predominantly lower motor neuron disease includes all except
 - (1) Multifocal motor neuropathy with conduction block
 - (2) Primary lateral sclerosis
 - (3) Motor neuropathy with paraproteinemia
 - (4) Motor predominant peripheral neuropathies
 - (5) Question not attempted
15. Causes of Scarring alopecia includes all except
 - (1) Linear morphea
 - (2) Cutaneous lupus
 - (3) Psoriasiform alopecia
 - (4) Folliculitis decalvans
 - (5) Question not attempted
16. Following are true regarding Atopic dermatitis EXCEPT :
 - (1) When both parents are affected by AD, $> 80\%$ of their children manifest the disease.
 - (2) Normal delayed-type hypersensitivity reaction.
 - (3) The childhood and adolescent patterns are typified.
 - (4) Perioral pallor are present in localized AD.
 - (5) Question not attempted
17. Following are true regarding Normal-pressure hydrocephalus are all, EXCEPT :
 - (1) The Sylvian fissures may appear propped open (so-called boxcarring)
 - (2) Obstruction to normal CSF flow over the cerebral convexities
 - (3) "magnetic" gait
 - (4) Cognition improves more than gait after CSF drainage
 - (5) Question not attempted

18. True regarding geriatric mental health disorder is
- (1) One in three older adults (age 65 and older) has at least one significant mental health problem/disorder.
 - (2) The prevalence of mental health problems in the oldest old (age 85 and older) approaches >70%.
 - (3) Older adults account almost 20% of all suicides.
 - (4) Over-diagnosis by healthcare providers.
 - (5) Question not attempted
19. All are a tools for Cognition (dementia) assessment and screening except
- (1) Saint Louis University AMSAD
 - (2) AD8
 - (3) Saint Louis University Mental Status (SLUMS) Examination
 - (4) MoCA
 - (5) Question not attempted
20. What is incorrect for Bulimia nervosa ?
- (1) Binge eating itself is defined as excessive food intake in a prescribed period of time, usually <2 h.
 - (2) Individuals are of normal weight or even somewhat overweight.
 - (3) 10:1 female-to-male ratio.
 - (4) Transition to anorexia occurs in only 1% of cases.
 - (5) Question not attempted
21. The NIA-AA (National Institute of Aging-Alzheimer Association) defined core clinical criteria for a diagnosis of MCI (Mild Cognitive Impairment) is described by all except
- (1) Cognitive complaint or cognitive problems suspected by family, friend or care provider
 - (2) Impairment in one or more cognitive Domains
 - (3) Relative independence in functional abilities
 - (4) Presence of dementia
 - (5) Question not attempted
22. Highest proportion of people aged 60 and above in India :
- (1) Kerela
 - (2) Karnataka
 - (3) Lakshadweep
 - (4) Dadra & Nagar Haveli
 - (5) Question not attempted
23. Following are true regarding Mild Cognitive Impairment (MCI) except :
- (1) 50% of patients with mild cognitive impairment are in the prodromal phases of Alzheimer's disease.
 - (2) Patients with mild cognitive impairment progress to Alzheimer's disease dementia at a rate of approximately 15% per year.
 - (3) Patients with mild cognitive impairment may remain stable for many years.
 - (4) MCI patients have functional impairment of activities of daily living (ADL) and that meet criteria for dementia.
 - (5) Question not attempted

24. True about Historical perspectives of geriatric medicine are all EXCEPT

- (1) Ignatz Nascher, known as the 'father of geriatric medicine'.
- (2) 1942, the American Geriatrics Society was formed.
- (3) Dr. Malford Thewlis, published the book 'Problems of Aging'.
- (4) 'The Care of the Aged, the Dying, and the Dead' was published by Dr. Alfred Worcester.
- (5) Question not attempted

25. The term "compression of morbidity" was introduced by

- (1) Ignatz Nascher
- (2) Fries
- (3) Bernard Isaacs
- (4) Sterling and Eyer
- (5) Question not attempted

26. Following are the Age-related changes in the cardiovascular system :

- A. Conduction system cells do not decrease after the age of 60.
- B. Increased the need for atrial contraction for ventricular filling.
- C. Preload of the atrium increases, and intra-atrial pressure rises.
- D. Diastolic refilling into the ventricles takes longer in the elderly compared to younger adults.

- (1) A, B, C, D are correct.
- (2) B, C, D are correct.
- (3) A, B, C are correct.
- (4) A, C, D are correct.
- (5) Question not attempted

27. Age-related changes in the GI tract are all EXCEPT

- (1) Until age 80, oesophagus motility remains intact.
- (2) Gastric acid secretion decreases.
- (3) Dyspeptic complaints such as heartburn and fullness may increase with age.
- (4) Water-soluble vitamin absorption decreases in the absence of hypochlorhydria.
- (5) Question not attempted

28. Hutchinson-Gilford Progeria Syndrome includes all except

- (1) Dentition is severely delayed.
- (2) Secondary teeth are absent.
- (3) Joint contractures and limited range of motion.
- (4) Normal Intellectual development
- (5) Question not attempted

29. For Allostatic States and Allostatic Overload in CARDIA Study, urinary measurement included all except

- (1) Urinary norepinephrine
- (2) Urinary epinephrine
- (3) Urinary free cortisol
- (4) Urinary sugar
- (5) Question not attempted

30. Which is not correct about ageing of brain ?

- (1) The brain shrinks during normal ageing, with reductions in both grey and white matter.
- (2) The cortical mantle becomes thinner, which is typically associated with the enlargement of ventricles and greater cerebrospinal fluid volumes.
- (3) Primary motor and sensory cortices are shows pronounced effects with aging.
- (4) Common patterns of atrophy involving the prefrontal cortex and, to a lesser extent, the medial temporal lobe and the parietal cortex have been described with ageing.
- (5) Question not attempted

31. Which of the following is not a feature of age-associated change in vibration ?

- (1) Affects upper and lower extremities
- (2) Often begins distally
- (3) Decrease is more in high-frequency range
- (4) Decrease is more in low-frequency range (25-40 Hz)
- (5) Question not attempted

32. The term "allostasis" introduced by

- (1) Fries
- (2) Sterling and Eyer
- (3) Ilya Ilyich Mechnikov
- (4) Bernard Isaacs
- (5) Question not attempted

33. Which of the following is false about Werner syndrome ?

- (1) Premature aging disease
- (2) Autosomal dominant
- (3) Atherosclerosis
- (4) Soft tissue calcification
- (5) Question not attempted

34. True about "Frailty Index" score are all except

- (1) The frailty index score is continuous data.
- (2) 30 or more items is preferred to achieve stable estimates.
- (3) It can be developed from any existing biomedical database.
- (4) Frailty index cannot be constructed based on a standard comprehensive geriatric assessment.
- (5) Question not attempted

35. True about atypical presentations in old age are all EXCEPT

- (1) Comorbid conditions may alter the presentation of disease
- (2) Age-related physiologic changes may alter the perception of stimulus
- (3) Cognitive impairment
- (4) Non-specific symptoms may result in underutilization of diagnostic tests and procedures
- (5) Question not attempted

36. Age-related changes in the cardiovascular system includes all except

- (1) Fat composition in the pericardium
- (2) Thickness of the left ventricular wall, and collagen tissues in endocardium and the walls of arteries all increase.
- (3) Prominent feature of the ageing heart is decreased maximum heart rate.
- (4) The thickening of veins and capillaries usually not found with aging.
- (5) Question not attempted

37. Which is false about Age-related changes in the skeleton ?

- (1) Cortical bone loss is greater than trabecular bone loss.
- (2) Bone mass starts to decline gradually after the age of 30.
- (3) Osteoblastic activity decreases while osteoclastic activity increases with age.
- (4) Deformation of the cartilaginous tissue of intervertebral discs causes a reduction in height in older adults.
- (5) Question not attempted

38. Following are the examples of Basic ADLs (activities of daily living) assessment except :

- (1) Katz
- (2) Lawton Personal Self-Maintenance Scale
- (3) Yesavage Geriatric Scale
- (4) Barthel index
- (5) Question not attempted

39. For Post-operative delirium in geriatric population, which is incorrect ?

- (1) The use of medications to treat delirium is reserved for those whose behaviour makes it difficult to provide treatment safely.
- (2) First-line drugs are benzodiazepines for management.
- (3) Non-pharmacologic management, including identification and treatment of underlying precipitants are preferred.
- (4) Medications should be started at the lowest dose possible, using the least invasive route of delivery.
- (5) Question not attempted

40. True about contrast nephropathy are all EXCEPT

- (1) High fractional excretion of sodium (FeNa).
- (2) Peaking within 3-5 days, and resolving within 1 week.
- (3) Hypoxia in the renal outer medulla may occur.
- (4) The risk of AKI associated with standard doses of group II gadolinium-based contrast media is very low.
- (5) Question not attempted

41. Right ventricular hypertrophy/strain on ECG is diagnosed with following findings, EXCEPT :

- (1) a relatively tall R wave in lead V_1 ($R \geq S$ wave)
- (2) qR pattern in V_3R
- (3) ST depression and T-wave inversion in lateral-precordial leads
- (4) Prominent S waves may occur in the left lateral precordial leads
- (5) Question not attempted

42. S-nitrosylation of ubiquitin E3 ligases is linked with
- (1) Parkinson disease
 - (2) Atherosclerosis
 - (3) Diabetes
 - (4) Acromegaly
 - (5) Question not attempted
43. All are true about Telomeres except
- (1) Telomeres are structures at the ends of chromosomes
 - (2) During DNA replication, as cells divide, stretches of telomeric DNA at the ends of chromosomes, often 150 to 200 base pairs (bp) long, are lost at each division.
 - (3) They comprise repeated TTAGGG nucleotide sequences in chromosomal DNA
 - (4) Germline, stem, cancer, and certain immune system cells, express telomerase, an enzyme complex that can regenerate telomeric DNA during each cell division, preventing telomere erosion
 - (5) Question not attempted
44. Immune Function Assessment in elderly can be done with all, EXCEPT
- (1) Quantitative immunoglobulin (IgG, IgA and IgM) levels
 - (2) Specific antibody titers
 - (3) Absolute lymphocyte counts
 - (4) Delayed skin test hypersensitivity using a panel of at least three antigens
 - (5) Question not attempted
45. Age-associated monoclonal gammopathy are all EXCEPT
- (1) Myeloma or related disorders
 - (2) Benign B cell neoplasia,
 - (3) Immunodeficiency
 - (4) Chronic antigenic suppression
 - (5) Question not attempted
46. Following is most appropriate regarding daily protein requirement :
- (1) Evidence suggests as much as 1.0 to 1.2 g of protein/kg of body weight is required to meet the needs of healthy older adults.
 - (2) More than 1.5 g/kg body weight for those with acute or chronic diseases.
 - (3) More than 2.0 g/kg body weight for those with severe infections, surgery, or trauma.
 - (4) Geriatric patients generally do not tolerate moderately high protein intakes.
 - (5) Question not attempted
47. MIND diet includes all except
- (1) Higher intake of Vitamin E, folate, flavonoids, carotenoids and dietary fibre
 - (2) Higher intake of potassium
 - (3) Monounsaturated fats
 - (4) Lower intake of saturated and trans fatty acids
 - (5) Question not attempted
48. Recommended daily intake for Vitamin D are :
- (1) 600 IU for individuals aged 51 to 70 years, and 800 IU for those older than 70 years
 - (2) 400 IU for individuals aged 51 to 70 years, and 800 IU for those older than 70 years
 - (3) 600 IU for individuals aged 51 to 70 years, and 1200 IU for those older than 70 years
 - (4) 400 IU for individuals aged 51 to 70 years, and 1000 IU for those older than 70 years
 - (5) Question not attempted

49. Bone loss in older adults is largely a result of all except
- (1) Elevated osteoclast activity
 - (2) Expansion in the total number of remodelling sites
 - (3) Increase in the amount of bone resorbed per individual site
 - (4) Reduced RANKL production
 - (5) Question not attempted
50. Not true about Pulsus alternans is
- (1) It is present only when every other phase I Korotkoff sound is audible as the cuff pressure is lowered slowly
 - (2) Typically, in a patient with a regular heart rhythm
 - (3) Dependent of the respiratory cycle
 - (4) Seen in patients with severe LV systolic dysfunction
 - (5) Question not attempted
51. There is relationship between antihypertensive treatment and falls, which is incorrect regarding this?
- (1) Fracture rates tend to be higher in those older hypertensives who are prescribed thiazide diuretics and ARBS than those on CCBs
 - (2) Orthostatic Hypotension (OH), which may be due to the effects of hypertension in reducing cardiac baroreceptor sensitivity.
 - (3) BP-lowering therapy per se may increase risk of falls by nearly 25%.
 - (4) Those with elevated BP levels and determined as frail (being unable to complete a 6-m walk test) had a better prognosis than those with normal BP levels in terms of reduced mortality.
 - (5) Question not attempted
52. Which is the most common symptom associated with AS in older adults?
- (1) Angina pectoris
 - (2) Syncope
 - (3) Near-syncope
 - (4) Congestive heart failure
 - (5) Question not attempted
53. Select the causes for raised natriuretic peptides (NPs).
- A. Chronic Heart failure
 - B. Myocardial ischemia
 - C. Atrial fibrillation
 - D. Left ventricular hypertrophy
 - (1) A, B, C, D are correct.
 - (2) A, B, C are correct.
 - (3) A, C, D are correct.
 - (4) B, C, D are correct.
 - (5) Question not attempted
54. All factors influences glucose intolerance in older adults except
- (1) Decreased beta cell function
 - (2) Mitochondrial dysfunction
 - (3) Low concentrations of adiponectin
 - (4) Decreased visceral fat
 - (5) Question not attempted
55. National Institutes of Health 2008 Recommendations for Surgery for Asymptomatic Primary Hyperparathyroidism in all except
- (1) Calcium level > 0.12 mmol/L above normal for each laboratory
 - (2) Life-threatening hypercalcemia
 - (3) BMD T score < -2.5 at any site (WHO definition of osteoporosis)
 - (4) Hypercalciuria
 - (5) Question not attempted

56. True statements regarding Adrenal Insufficiency are all EXCEPT

- (1) In older adults, Addison disease is more likely to be fatal.
- (2) Hydrocortisone replacement therapy is given orally in single dose.
- (3) Metastases are commonly found in the adrenal glands, they only compromise cortisol secretion.
- (4) Addison disease is more likely to be tuberculous than in younger patients.
- (5) Question not attempted

57. Following are the features of Amiodarone induced hyperthyroidism, EXCEPT :

- (1) Jod Basedow phenomenon, may cause hyperthyroidism
- (2) Serum T4 levels above the normal range in around 40% of cases
- (3) 5% will develop clinical hyperthyroidism
- (4) Amiodarone-induced hyperthyroidism can last for days to weeks
- (5) Question not attempted

58. True about Giant Cell Arteritis all except

- (1) The female-to-male ratio is approximately 1 : 4
- (2) There is an association of HLA-DRB1*04.
- (3) Sudden visual loss may affect up to 20% of cases and is an early manifestation.
- (4) The erythrocyte sedimentation rate (ESR) is a vital diagnostic test but can be normal in up to 10% of cases.
- (5) Question not attempted

59. Which is not true about Herpes Simplex Encephalitis in older adults ?

- (1) Olfactory hallucinations are common
- (2) The spinal fluid findings are nonspecific with a prominent lymphocytosis
- (3) Typically, occipital lobe involvement seen on MRI
- (4) HSV PCR is helpful in making the diagnosis
- (5) Question not attempted

60. False statement regarding Subdural Hematoma is

- (1) One-third of patients have a lucid interval
- (2) A unilateral headache and slightly enlarged pupil on the side of the hematoma are invariably present
- (3) The bleeding that causes larger subdural hematomas is primarily venous in origin
- (4) A few large hematomas have a purely arterial origin
- (5) Question not attempted

61. The best modality for diagnosing brain tumour is

- (1) MRI (2) CT scan
- (3) PET scan (4) SPECT scan
- (5) Question not attempted

62. All are true for about 5 α -Reductase Inhibitors except

- (1) Finasteride inhibits only 5 α -reductase type 1
- (2) Dutasteride inhibits 5 α -reductase types 1 and 2.
- (3) 5 α -reductase inhibitors are not recommended for the treatment of LUTS in the absence of prostatic enlargement.
- (4) The most commonly experienced side effect are irreversible sexual dysfunction.
- (5) Question not attempted

63. Contraindications of HRT (Hormone Replacement Therapy) in postmenopausal women is

- (1) Estrogen-dependent breast cancer
- (2) Endometriosis
- (3) Uterine fibroid
- (4) Cervical cancer
- (5) Question not attempted

64. Storage symptoms of Lower Urinary Tract Symptoms (LUTS) are all EXCEPT

- (1) Nocturia
- (2) Urgency
- (3) Urinary incontinence
- (4) Terminal dribble
- (5) Question not attempted

65. Gleason Score is used for

- (1) Prostate cancer
- (2) Lung cancer
- (3) Colon cancer
- (4) Breast cancer
- (5) Question not attempted

66. Increase taste sensitivity is seen with-

- (1) Diabetes mellitus
- (2) Hypogonadism
- (3) Pseudohypoparathyroidism
- (4) Adrenal cortical insufficiency
- (5) Question not attempted

67. Match the Table 1 with Table 2 in relation to time course of acute rotational vertigo.

Table 1

Table 2

- | | |
|--|----------------------------------|
| I. Less than one minute's duration | A. Vestibular neuritis |
| II. Less than one hour duration | B. Benign paroxysmal vertigo |
| III. Several hours' duration (< than 24 hours) | C. Menière's disease |
| IV. Several days' duration | D. Vertebrobasilar insufficiency |

- | | I | II | III | IV |
|-----|------------------------|----|-----|----|
| (1) | A | B | C | D |
| (2) | D | B | A | C |
| (3) | B | D | C | A |
| (4) | B | C | A | D |
| (5) | Question not attempted | | | |

68. Which is incorrect for Middle Ear Implants (MEI) ?

- (1) Available for partial restoration of hearing for those with moderate to severe sensorineural HL.
- (2) The success of an MEI rests on the health of the cochlea.
- (3) External processor is surgically attached to the skull behind the ear.
- (4) Amplified vibratory signal is delivered to the inner ear via a normally functioning middle ear structure.
- (5) Question not attempted

69. Which is not a feature of ischemic insults to the oculomotor nerve ?
- (1) Anisocoria
 - (2) Ptosis
 - (3) Ophthalmoplegia
 - (4) Ipsilateral pain
 - (5) Question not attempted
70. What is false regarding Shingles Vaccination ?
- (1) There is no maximum age for getting this.
 - (2) Can be given with past history of Shingles.
 - (3) Guillain-Barré Syndrome (GBS), a serious nervous system disorder, has been reported very rarely after Shingrix.
 - (4) Given as single dose intramuscular dose
 - (5) Question not attempted
71. All are correct about asymptomatic bacteriuria in elderly except
- (1) 25% of women and 10% of men aged older than 65 years have asymptomatic bacteriuria.
 - (2) This can be 50% in women and higher than 35% in men older than 80 years.
 - (3) Routine screening is often recommended and treated with empirical treatment till culture report.
 - (4) Indwelling catheters result in bacteriuria in almost 100% of cases within 4 weeks and within 3 or 4 days in open drainage systems.
 - (5) Question not attempted
72. Which of the following is not true ?
- (1) Fever is the prototypical sign of many infections, some malignancies, and rheumatologic diseases.
 - (2) The presence of fever serves as a warning sign for potentially life-threatening diseases.
 - (3) The febrile response may be absent in infected older patients.
 - (4) Older patients, on average, have a higher basal temperature than younger persons.
 - (5) Question not attempted
73. Select the major criteria for Severe Community-Acquired Pneumonia.
- A. Respiratory failure requiring invasive mechanical ventilation
 - B. Septic shock requiring vasopressors
 - C. Respiratory rate ≥ 30 breaths/min
 - D. Multilobar infiltrates
- (1) A, B, C (2) A, B
 - (3) A, B, D (4) A, B, C, D
 - (5) Question not attempted
74. What is not true for changes in pancreas with aging ?
- (1) Age-related changes in pancreatic function after the age of 60 years.
 - (2) There are morphologic changes in that the pancreas shrinks and can become more fatty.
 - (3) Diffuse fibrosis can also occur in the pancreas from the seventh decade onward, with changes of chronic pancreatitis.
 - (4) There may be focal lobular fibrosis, associated with ductal papillary hyperplasia, which can be premalignant.
 - (5) Question not attempted

75. Bristol Stool Chart is used to assess

- (1) Stool consistency
- (2) Stool transit time
- (3) Stool frequency
- (4) Stool colour
- (5) Question not attempted

76. Correct for Long-term oxygen therapy (LTOT) in Chronic obstructive pulmonary disease (COPD):

- (1) Recommended in severe COPD and in any one with signs of cor pulmonale.
- (2) LTOT for at least 6 hours per day was shown to improve survival in patients with severe COPD and persistent hypoxaemia.
- (3) PaO_2 7.3–8.0 kPa without evidence of secondary polycythaemia, pulmonary hypertension, peripheral oedema nocturnal hypoxaemia.
- (4) All are correct.
- (5) Question not attempted

77. True about rapidly progressive OA are all EXCEPT

- (1) Presents in older women and men equally.
- (2) Radiographic changes that may mimic septic arthritis.
- (3) Affects the hip, and may be bilateral.
- (4) The joint may progress to complete destruction within a year or two.
- (5) Question not attempted

78. What is incorrect for Gout in the older adult population?

- (1) More equal gender distribution.
- (2) More frequently presents with monoarticular involvement.
- (3) Associated with comorbid conditions such as chronic kidney disease, hypertension, diabetes, and dyslipidemia.
- (4) It may be precipitant with use of Aspirin.
- (5) Question not attempted

79. Which joint least involved in osteoarthritis?

- (1) Knee
- (2) Ankle joint
- (3) Hip
- (4) Cervical spine
- (5) Question not attempted

80. Not a feature of Polymyalgia Rheumatica (PMR):

- (1) Symmetrical inflammatory pain of the hip and shoulder girdles
- (2) Distal hand swelling with pitting edema is common
- (3) Polymyalgia is associated with giant cell arteritis (GCA) in 10% to 40% of cases
- (4) Morning stiffness for more than 45 minutes
- (5) Question not attempted

81. True about Senile Purpura are all except

- (1) Senile purpura occurs mainly on the extensor surfaces of the forearms and hands.
- (2) Loss of subcutaneous fat and changes in aging connective tissue permit undue mobility of older skin, and shearing forces result in rupture of small vessels.
- (3) Platelets are typically normal qualitatively and quantitatively in patients with senile purpura.
- (4) Commonly shown with ascorbic acid deficiency.
- (5) Question not attempted

82. Which is Selective inhibitor of nuclear export (SINE) used for Multiple Myeloma (MM) ?
- (1) Selinexor (S)
 - (2) Daratumumab (Da)
 - (3) Elotuzumab (E)
 - (4) Bortezomib (V)
 - (5) Question not attempted
83. True about iron deficiency anemia in elderly are all EXCEPT
- (1) Cold intolerance is feature of iron deficiency anemia (IDA).
 - (2) Normocytic RBCs found in early stage of IDA.
 - (3) Ferritin levels greater than 100 ng/mL generally do not exclude IDA with a co-existing inflammatory state.
 - (4) Increased transferrin with low transferrin saturation.
 - (5) Question not attempted
84. Binet Staging System for CLL includes all except
- (1) <3 areas of lymphadenopathy
 - (2) ≥ 3 areas of lymphadenopathy
 - (3) Hemoglobin ≤ 10 g/dL and/or platelets $< 100,000/\mu\text{L}$
 - (4) Lymphocytosis only
 - (5) Question not attempted
85. The pathogenesis of seborrheic dermatitis, although controversial, has been attributed to
- (1) Candida
 - (2) Pityrosporum
 - (3) Trichophyton
 - (4) Tinea rubrum
 - (5) Question not attempted
86. Acute Myeloid Leukemia with poor prognosis
- (1) t(6;9)
 - (2) t(15;17)
 - (3) t(8;21)
 - (4) inv(16)
 - (5) Question not attempted
87. True about pressure ulcers (bed sores) are all EXCEPT
- (1) Two hours of tissue ischaemia are sufficient for the subsequent development of an ulcer
 - (2) There is considerable lag between the ischaemic insult and the resulting ulcer
 - (3) Grade I erythema do not progress to deep ulcers without further ischaemic insult
 - (4) Pressures exceeding 35 mm Hg compress and cause ischaemia
 - (5) Question not attempted
88. Campbell de Morgan spots are :
- (1) Firm, smooth, red papules ranging in size from 0.5 to 5 mm
 - (2) Dark blue to violet-coloured papules that occur on sun-exposed area
 - (3) Dependent edema with hyperkeratosis and lichenification
 - (4) Rash and vesicular eruption in a dermatomal distribution after sharp pain
 - (5) Question not attempted
89. Features of cytokine release syndrome (CRS) following initial infusion of human or humanized antibodies are all EXCEPT
- (1) Due to activation of a variety of cell types including monocytes/macrophages and T and B lymphocytes.
 - (2) Hemophagocytic lymphohistiocytosis (HLH) is part of severe CRS.
 - (3) Macrophage activation syndrome (MAS) is not part of severe CRS.
 - (4) Tocilizumab is an effective treatment for severe or life-threatening CRS.
 - (5) Question not attempted

90. Mycosis fungoides (MF) is
- (1) Invasive mucormycosis infection
 - (2) Cutaneous T-cell lymphoma
 - (3) Invasive Aspergillosis
 - (4) Eumycetoma
 - (5) Question not attempted
91. Persistent hypoglycaemia is occasionally associated with tumours all except
- (1) Hepatomas
 - (2) Adrenocortical tumors
 - (3) Mesenchymal origin
 - (4) Thyroid malignancy
 - (5) Question not attempted
92. Tumor lysis syndrome (TLS) is characterized by all EXCEPT
- (1) Seen rarely with solid tumors
 - (2) Spontaneous necrosis of malignancies causes TLS
 - (3) Hypercalcemia
 - (4) Deposition of calcium phosphate in the kidney
 - (5) Question not attempted
93. Age-Related changes in Drug Distribution
- (1) ↑ Volume of distribution, ↓ plasma concentrations of water-soluble drugs
 - (2) ↓ Volume of distribution and ↓ terminal disposition half-life ($t_{1/2}$) for fat-soluble drugs
 - (3) ↑ or ↓ free fraction of highly plasma protein-bound drugs
 - (4) Loading doses of medications do not affected by aging
 - (5) Question not attempted
94. Which Herbs ↑ Drug concentration of ASA (aspirin) ?
- (1) Psyllium
 - (2) Tamarind
 - (3) Gingko
 - (4) Fenugreek
 - (5) Question not attempted
95. True about drug-drug interactions are all EXCEPT
- (1) Decreased bioavailability can be seen when phenytoin is administered with enteral feedings.
 - (2) Multivalent cations reduce the bioavailability of quinolone antimicrobials.
 - (3) Drug interactions most likely to be clinically significant when they involve drugs with narrow therapeutic margin.
 - (4) Drug interactions involving drug distribution are not related to altered plasma protein binding.
 - (5) Question not attempted
96. Which is the least contributing factor for adverse drug reactions (ADRs) in older persons ?
- (1) Drug-drug interactions
 - (2) Drug-disease interactions
 - (3) Suboptimal monitoring of drugs
 - (4) Medication nonadherence
 - (5) Question not attempted
97. Pre-operative factors most likely to increase risk of morbidity and mortality include the following except :
- (1) History of chronic obstructive pulmonary disease (COPD)
 - (2) Recent (within six months) myocardial infarction (MI)
 - (3) Anemia (hemoglobin <12 g/dl)
 - (4) Low albumin level (<3 g/dl)
 - (5) Question not attempted

98. Not true regarding Physiologic Reserve in elderly :

- (1) Poor cardiorespiratory reserve is an established predictor of post-operative morbidity and mortality.
- (2) One MET is the basal metabolic rate of a 40-year-old, 70-kg man at rest, which equates to 3.5 mL/kg/min.
- (3) Poor physiologic reserve is defined as a MET less than 3.
- (4) METs may lack discriminatory power in older adults with other non-cardiorespiratory reasons.
- (5) Question not attempted

99. Which is false about anesthesia for surgery of hip fracture in older person ?

- (1) Patients with advanced pulmonary disease, may benefit from spinal anesthesia
- (2) In patients with advanced cardiac disease, spinal anesthesia may pose a risk of hypotension
- (3) After spinal anesthesia, development of hypotension is due to decrease in systemic vascular resistance
- (4) After spinal anesthesia, development of hypotension is due to decrease in cardiac output
- (5) Question not attempted

100. Which is the extrinsic factor contributing to pressure ulcer development ?

- (1) Immobility
- (2) Poor nutrition
- (3) Excessive moisture
- (4) Decreased sensory perception
- (5) Question not attempted

101. As per Longitudinal Ageing Study of India (LASI), projected population of elderly people by 2050

- (1) 8.5% (2) 12.5%
- (3) 16.5% (4) 19.5%
- (5) Question not attempted

102. Enculturation is

- (1) Learning and acquisition of elements of another culture.
- (2) Changing one's cultural elements as a result of a meeting between cultures.
- (3) Adoption of the moral views and behaviour of the majority society.
- (4) Giving up one's own culture in favour of another one.
- (5) Question not attempted

103. Components of Age Friendly Health Systems are all EXCEPT

- (1) What Matters
- (2) Medication
- (3) Mobility
- (4) Monetary
- (5) Question not attempted

104. "Rashtriya Vayoshri Yojana (RVY)" is a scheme of the Indian Government for senior citizen to provide :

- (1) Physical Aids and Assisted-living Devices
- (2) Vaccination
- (3) Nutritional support
- (4) Running and maintenance of senior citizen homes, old age homes
- (5) Question not attempted

105. False about Assisted Living Facilities (ALF) :

- (1) On-site diagnostic testing and pharmacy services uncommon
- (2) Physician always available on site
- (3) Model of care is residential with supportive services
- (4) Residents are senior citizens most with impairments in instrumental activities of daily living (ADLs) and some impairment of basic ADLs
- (5) Question not attempted

106. Meaning of Usually aging is

- (1) Continue to experience good health for an extended period of time.
- (2) Older adults have some signs of chronic disease.
- (3) Appear frailer and more functionally dependent for their age.
- (4) Have minimal health problems; they may visit their primary health care provider for preventive checks.
- (5) Question not attempted

107. Moderate intensity activity in which the individual exercises at intensity ranges from in metabolic equivalents (METs)

- (1) 1.5 to 3 METs
- (2) 3 to 6 METs
- (3) 6 to 8 METs
- (4) 8 to 10 METs
- (5) Question not attempted

108. Cognitive screening tool used in the emergency department include all except :

- (1) Six-item screener
- (2) MMSE
- (3) Short Blessed Test (SBT)
- (4) Ottawa 3 Date and Year (O3DY)
- (5) Question not attempted

109. Effects of exercise training on lipid profile are all EXCEPT

- (1) Increase HDL-C
- (2) Decrease TG
- (3) Decrease VLDL
- (4) Increase apolipoprotein A-1
- (5) Question not attempted

110. Seniorcare Aging Growth Engine (SAGE) Initiative is

- (1) The main objective of the scheme is to improve the quality of life of older persons by providing basic amenities like shelter, food, medical care and entertainment opportunities.
- (2) Provide aids and assistive living devices to senior citizens belonging to Below Poverty Line (BPL) category who suffer from age-related disabilities such as low vision, hearing impairment, loss of teeth and locomotor disabilities.
- (3) It has been launched with a view to help such persons who are interested in entrepreneurship in the field of providing services for elderly care.
- (4) It is a pension scheme for senior citizens that comes with guaranteed returns on monthly, quarterly, half-yearly or on an annual basis for a period of 10 years.
- (5) Question not attempted

111. True regarding exercises to improve aerobic capacity is

- (1) Exercises involve continuous activity are not recommended.
- (2) Perform exercise at least 20 minutes at intensity <50% of one's maximal oxygen consumption.
- (3) Several sessions of 10 minutes per day have shown similar benefits as one session of 30 minutes.
- (4) To achieve benefits, Endurance training needs to be performed one to three times per week.
- (5) Question not attempted

112. According to Lawton Instrumental Activities of Daily Living Scale (IADL), which is not an instrumental activity of daily living?

- (1) Bathing
- (2) Food Preparation
- (3) Housekeeping
- (4) Laundry
- (5) Question not attempted

113. All are components of National Programme for the Health Care of the Elderly (NPHCE) except

- (1) National Health Mission (NHM)
- (2) Rashtriya Varistha Jan Swasthya Yojana
- (3) Pradhan Mantri Vaya Vandana Yojana (PMVVY)
- (4) Longitudinal Ageing Study in India (LASI) project
- (5) Question not attempted

114. All are the anti-osteoporosis drugs except

- (1) Denosumab
- (2) Aducanumab
- (3) Romosozumab
- (4) Odanacatib
- (5) Question not attempted

115. The Maintenance and Welfare of Parents and Senior Citizens Act, 2007, what is incorrect?

- (1) It extends to the whole of India except the State of Jammu and Kashmir.
- (2) It don't applies to citizens of India outside India.
- (3) "Welfare" means provision for food, health care, recreation centres and other amenities necessary for the senior citizens.
- (4) "Maintenance" includes provision for food, clothing, residence and medical attendance and treatment.
- (5) Question not attempted

116. True about experimental therapies for Parkinson's disease are all EXCEPT

- (1) There is enough scientific basis to warrant routine treatment of PD patients with stem cells.
- (2) Glial-derived neurotrophic factor (GDNF) has attracted particular attention as possible therapies for PD.
- (3) Gene delivery is being explored as a means of delivering aromatic amino acid decarboxylase with or without tyrosine hydroxylase to the striatum.
- (4) Gene therapy for the trophic factor neurturin may be a target.
- (5) Question not attempted

117. Goals of Medical Care in Nursing Homes are all EXCEPT

- (1) Restore and maintain the highest possible level of functional independence.
- (2) Do not identify and treat acute medical illness.
- (3) Prevent iatrogenic illness and adverse events.
- (4) Provide rehabilitation-oriented interdisciplinary care to post acute patients.
- (5) Question not attempted

118. Scale used to measure fatigue in clinical scenario :
- (1) Edmonton Functional Assessment Tool
 - (2) Fatigue Self-Report Scales
 - (3) Rhoten Fatigue Scale
 - (4) Eastern Cooperative Oncology Group (ECOG)'s question
 - (5) Question not attempted
119. P-SPIKES approach is used for
- (1) Planning for future medical care in case the patient becomes incapable of making medical decisions.
 - (2) Assessment of pain in critically ill patients.
 - (3) Communicating bad news
 - (4) Comprehensive assessment focus on evaluating the patient's condition.
 - (5) Question not attempted
120. General Criteria for Recognition of "Futility of further Management" include all EXCEPT
- (1) Life expectancy expected to be in days to weeks
 - (2) Any condition, where clinicians predict a very low chance of meaningful survival and purposeful life
 - (3) Post-cardiac arrest status with good neurological outcomes
 - (4) Brain dead patients, who are not suitable for organ donation
 - (5) Question not attempted
121. Which of the following is not true regarding Hospice programs ?
- (1) Provide comprehensive care to dying patients
 - (2) The team is a multidisciplinary of nurses, physicians, social workers, volunteers etc.
 - (3) Patients are more likely than not to die in the next 6 months
 - (4) Help patients and their families live as fully as possible by providing disease directed therapies.
 - (5) Question not attempted
122. What is incorrect for advance medical directive in India ?
- (1) It is also known as Living Wills.
 - (2) Can be made in front of a Gazetted Officer.
 - (3) Can be made in front of a Notary.
 - (4) Shall be countersigned by a magistrate.
 - (5) Question not attempted
123. When a patient has clearly signalled that he or she does not want some piece of information about the condition or prognosis but this information given to him, called as
- (1) Dignity
 - (2) Informational paternalism
 - (3) Respect for Autonomy
 - (4) Non-maleficence
 - (5) Question not attempted
124. Euthanasia in India, what is correct in this context ?
- (1) Legalized active euthanasia can be done
 - (2) Legalized passive euthanasia can be done
 - (3) Legalized active and passive both euthanasia can be done
 - (4) Euthanasia is not legalized and cannot be done.
 - (5) Question not attempted
125. Morphine is used in which step of the WHO classification system for analgesic use (WHO Analgesic Ladder) ?
- (1) Step 1
 - (2) Step 2
 - (3) Step 3
 - (4) All of these
 - (5) Question not attempted

126. International Society on Thrombosis and Hemostasis (ISTH) criterion is used for

- (1) Overt Disseminated Intravascular Congestion (DIC)
- (2) Hemophilia
- (3) Heparin-Induced Thrombocytopenia
- (4) Thrombotic Thrombocytopenic Purpura
- (5) Question not attempted

127. What is false about spleen ?

- (1) The normal spleen weighs <250 g
- (2) Increases in size with age
- (3) Has a maximum cephalocaudal diameter of 13 cm by ultrasonography or maximum length of 12 cm and/or width of 7 cm by radionuclide scan.
- (4) A palpable spleen was found in 3% asymptotically
- (5) Question not attempted

128. The innervation to the musculature acting on the upper esophageal sphincter (UES) to facilitate its opening during swallowing comes from all the following nerves except :

- (1) Vagus Nerve
- (2) Trigeminal Nerve
- (3) Facial Nerve
- (4) Hypoglossal Nerve
- (5) Question not attempted

129. Which is NOT TRUE regarding determinants and regulation of glomerular filtration ?

- (1) The hydrostatic pressure gradient across the glomerular capillary wall is the primary driving force for glomerular filtration.
- (2) Oncotic pressure within the capillary lumen, oppose filtration.
- (3) Approximately 20% of the renal plasma flow is filtered into bowman space.
- (4) The ratio of glomerular filtration rate (GFR) to renal plasma flow do not determines the filtration fraction.
- (5) Question not attempted

130. Eosinophilia is defined as presence of at least

- (1) >400 eosinophils per μL of blood
- (2) >500 eosinophils per μL of blood
- (3) >600 eosinophils per μL of blood
- (4) >700 eosinophils per μL of blood
- (5) Question not attempted

131. Rat-bite fever is caused by

- (1) *Borrelia lonestari*
- (2) *Spirillum minus*
- (3) *Leptospira interrogans*
- (4) *Borrelia garinii*
- (5) Question not attempted

132. Features that favour central cause of vertigo are all EXCEPT

- (1) Nystagmus that changes direction with gaze
- (2) Pure vertical or pure torsional nystagmus
- (3) Central nystagmus not inhibited by visual fixation
- (4) Presence of a head impulse sign
- (5) Question not attempted

133. The Joining (J) chain, is a protein component that links monomers of which class of antibodies ?

- (1) IgD (2) IgG
- (3) IgA (4) IgE
- (5) Question not attempted

134. Risk factors for pneumococcal pneumonia include

- A. Dementia
- B. Seizure disorders
- C. Heart failure
- D. Cerebrovascular disease
- (1) A, B, C are correct.
- (2) A, B, C, D are correct.
- (3) A, B, D are correct.
- (4) B, C, D are correct.
- (5) Question not attempted

135. Drugs approved by US-FDA for treatment of Interstitial Cystitis/Bladder Pain Syndrome is

- (1) Pentosan Polysulfate Sodium (PPS)
- (2) Amitriptyline
- (3) NSAIDs
- (4) Phenazopyridine
- (5) Question not attempted

136. Asymptomatic Bacteriuria (ASB) do not warrant antimicrobial therapy in

- (1) Pregnant females
- (2) Renal transplant recipient
- (3) Patient undergoing invasive urological procedure
- (4) Patient with indwelling catheter
- (5) Question not attempted

137. Following is true regarding mechanism of resistance in bacteria :

- A. Alteration or bypassing of targets that exhibit reduced binding of the drug.
- B. Altered access of the drug to its target by reductions in uptake or increases in active efflux.
- C. Modification of the drug that increase its activity.
- D. These changes occur spontaneously by mutation or the acquisition of new genes by DNA transfer from other bacteria.
- (1) A, B, C, D are correct.
- (2) A, B, D are correct.
- (3) A, B, C are correct.
- (4) B, C, D are correct.
- (5) Question not attempted

138. Causes of Hypocalcemia with low PTH (Parathyroid Hormone) level includes

- (1) Vitamin D resistance
- (2) Autosomal dominant hypocalcemia
- (3) PTH receptor mutations
- (4) Acute pancreatitis
- (5) Question not attempted

139. What is false about Thyrotoxic periodic paralysis [TPP] ?

- (1) Hypokalemia is usually profound and almost invariably accompanied by hypophosphatemia and hypomagnesemia.
- (2) Signs and symptoms of hyperthyroidism are not invariably present.
- (3) Acquired somatic mutations in KCNJ5 can be detected.
- (4) TPP is also attributed to both direct and indirect activation of the Na⁺/K⁺-ATPase.
- (5) Question not attempted

140. Not true regarding hypokalemia is

- (1) Occurs in up to 50% of hospitalized patients.
- (2) Hypokalemia is associated with a tenfold increase in in-hospital mortality.
- (3) Thyroid hormone promotes Na⁺/K⁺-ATPase-mediated cellular uptake of K⁺, leading to hypokalemia.
- (4) Alcohol withdrawal associated with hypokalemia.
- (5) Question not attempted

141. False about Brugada syndrome

- (1) Episodes of syncope or cardiac arrest due to polymorphic VT in the absence of structural heart disease.
- (2) Cardiac arrest may occur during sleep or be provoked by febrile illness.
- (3) Females are more commonly affected than males.
- (4) Mutations involving cardiac sodium channels are identified in ~25% of cases.
- (5) Question not attempted

142. What will be the features of Cardiac tamponade ?

- (1) Prominent y descent but an absent x descent
- (2) Prominent x descent but an absent y descent
- (3) Both x descent and y descent prominent
- (4) Both x descent and y descent absent
- (5) Question not attempted

143. Relative contraindication of fibrinolytic therapy in acute MI are all except

- (1) Suspicion of aortic dissection
- (2) A recent (<2 weeks) invasive or surgical procedure
- (3) A hemorrhagic ophthalmic condition (e.g., hemorrhagic diabetic retinopathy)
- (4) Active peptic ulcer disease
- (5) Question not attempted

144. Following is true regarding Type II second-degree AV block, EXCEPT :

- (1) Failed AV conduction preceded by fixed PR interval.
- (2) It is infranodal in location.
- (3) In the setting of 2:1 AV block, ECG differentiation of type I versus type II second-degree AV block is not possible.
- (4) Associated with a reliable escape rhythm.
- (5) Question not attempted

145. Which is not an example of Smoking-related ILDs ?

- (1) Respiratory bronchiolitis with interstitial lung disease (RB-ILD)
- (2) Desquamative Interstitial Pneumonia (DIP)
- (3) Pulmonary Langerhans Cell Histiocytosis (PLCH)
- (4) Non-specific interstitial pneumonia (NSIP)
- (5) Question not attempted

146. Several genes play a role in the heritability of NAFLD, which is being may increase the heritability of NAFLD :

- (1) HSD17B13 (2) MARC1
- (3) CIDEA (4) PNPLA3
- (5) Question not attempted

147. True regarding Proton Pump Inhibitor use in peptic ulcer disease are all EXCEPT

- (1) Long-term use of PPIs is associated with the development of hip fractures in older women.
- (2) Long-term use of PPIs is associated with risk for developing pneumonia especially in elderly patients.
- (3) Long-term use of PPIs is not associated with risk for developing C. difficile infection especially in elderly patients.
- (4) The risk of spontaneous bacterial peritonitis in cirrhotics was thought to be increased, but the data here are less supportive.
- (5) Question not attempted

148. What is true for Eosinophilic Esophagitis (EoE) ?

- (1) Food allergens not the aero-allergens contributes for EoE.
- (2) Peripheral blood eosinophilia is demonstrable in <10% of patients.
- (3) Primary therapy often starts with PPI therapy, which is effective at improving eosinophilic inflammation in 30-50% of patients.
- (4) Systemic glucocorticoids are generally recommended due to proven benefit beyond that achieved with topical glucocorticoids.
- (5) Question not attempted

149. Following are true regarding physical signs of liver diseases EXCEPT :

- (1) Kayser-Fleischer rings occur in Wilson disease and consist of a golden-brown copper pigment deposited in Descemet's membrane at the periphery of the retina.
- (2) Dupuytren contracture and parotid enlargement are suggestive of chronic alcoholism and alcoholic liver disease.
- (3) Hyperpigmentation is typical of advanced sclerosing cholangitis.
- (4) Hepatic bruit may be prominent in hepatocellular carcinoma.
- (5) Question not attempted

150. Causes of recurrent bouts of acute pancreatitis are all, EXCEPT

- (1) Pancreatic cancer
- (2) Hypercalcemia
- (3) Autoimmune
- (4) Cystic fibrosis
- (5) Question not attempted

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145. Which is not an example of eosinophilic disorder?
- (1) Food allergy not the allergic counterpart for EoE.
 - (2) Peripheral blood eosinophilia is demonstrable in >10% of patients.
 - (3) Primary therapy off a steroid with PPI therapy which is effective at improving eosinophilic inflammation in 50-50% of patients.
 - (4) Systemic glucocorticoids are generally recommended due to proven benefit beyond that achieved with topical glucocorticoids.
 - (5) Question not attempted.

146. Several genes play a role in the heritability of NAFLD, which is being may increase the heritability of NAFLD:

147. True regarding Proton Pump Inhibitor use in peptic ulcer disease are all EXCEPT
- (1) Long-term use of PPIs is associated with the development of hip fractures in older women.
 - (2) Long-term use of PPIs is associated with risk for developing pneumonia especially in elderly patients.
 - (3) Long-term use of PPIs is not associated with risk for developing C difficile infection especially in elderly patients.
 - (4) The risk of spontaneous bacterial pneumonia in children was thought to be increased, but the data here are less supportive.
 - (5) Question not attempted.

148. Following are true regarding physical signs of liver disease EXCEPT

149. Causes of xanthomata of xanthoma are all EXCEPT
- (1) Pancreatic cancer
 - (2) Hypercholesterolemia
 - (3) Familial
 - (4) Cystic fibrosis
 - (5) Question not attempted

145. Which is not an example of eosinophilic disorder?
- (1) Food allergy not the allergic counterpart for EoE.
 - (2) Peripheral blood eosinophilia is demonstrable in >10% of patients.
 - (3) Primary therapy off a steroid with PPI therapy which is effective at improving eosinophilic inflammation in 50-50% of patients.
 - (4) Systemic glucocorticoids are generally recommended due to proven benefit beyond that achieved with topical glucocorticoids.
 - (5) Question not attempted.

146. Several genes play a role in the heritability of NAFLD, which is being may increase the heritability of NAFLD:

- (1) HSD17B13 (9) MBO1
(2) C10orf11 (10) PNLIP1
(3) Question not attempted

147. True regarding Proton Pump Inhibitor use in peptic ulcer disease are all EXCEPT

- (1) Long-term use of PPIs is associated with the development of hip fractures in older women.
- (2) Long-term use of PPIs is associated with risk for developing pneumonia especially in elderly patients.
- (3) Long-term use of PPIs is not associated with risk for developing C difficile infection especially in elderly patients.
- (4) The risk of spontaneous bacterial pneumonia in children was thought to be increased, but the data here are less supportive.
- (5) Question not attempted