

UPSC Mains 2025 Aug 31, 2025 Medical Science (Paper 2) Question Paper and Answer Key PDF

Q. No.	Question	Check Solution
Q1 (A)	Briefly describe the role of lifestyle interventions in prevention of coronary artery disease.	<a href="#">Check Solution</a>
Q1 (B)	Discuss the role of various imaging modalities in the diagnostic evaluation of pyelonephritis.	<a href="#">Check Solution</a>
Q1 (C)	Write the criteria for diagnosing pneumonia in children according to the 'Acute Respiratory Infection (ARI) Control Programme' (WHO). Write the treatment strategies of different types of pneumonia according to the ARI Control Programme.	<a href="#">Check Solution</a>
Q1 (D)	How will you treat hypothermia in a 3-year-old child with severe acute malnutrition (SAM)? How will you prevent hypothermia in an SAM child?	<a href="#">Check Solution</a>
Q1 (E)	A joint family comprising of senior citizens, antenatal women and one-month old infant is suffering from scabies. (i) Name the organism that causes scabies in humans. (ii) What factors are involved in the transmission of scabies in a family? (iii) How do you plan to treat scabies in this family?	<a href="#">Check Solution</a>
Q2 (A)	A 23-year-old woman with type I diabetes mellitus presents with nausea, vomiting and altered sensorium. On examination, she is tachypneic and hypotensive. Her random blood sugar is 460 mg/dL, and routine examination of urine is positive (++) for ketone. Outline the stepwise approach to the diagnosis and management of this patient.	<a href="#">Check Solution</a>
Q2 (B) (i)	Define acute diarrhoea in children. List its causes. How would you assess for dehydration in such a child?	<a href="#">Check Solution</a>
Q2 (B) (ii)	Write the nutritional management of acute diarrhoea and the steps to be taken for prevention of acute diarrhoea.	<a href="#">Check Solution</a>
Q2 (C) (i)	Define eczema. How do you classify eczema? Enumerate the differences between allergic contact dermatitis and irritant contact dermatitis.	<a href="#">Check Solution</a>
Q3 (A) (i)	Elaborate the indications for initiating antiviral therapy in a patient with chronic hepatitis B.	<a href="#">Check Solution</a>
Q3 (A) (ii)	Write the first-line antiviral treatment regimen for the management of chronic hepatitis B along with the recommended monitoring strategy during therapy.	<a href="#">Check Solution</a>
Q3 (B)	Write the risk factors for respiratory distress syndrome (RDS)s in newborn. What is the differential diagnosis of RDS? How will you manage respiratory distress syndrome in newborn?	<a href="#">Check Solution</a>

Q3 (C)	A 28-year-old female with a long history of psoriasis develops symmetrical, flexural and grouped pustules with high grade fever and severe constitutional symptoms in the third trimester. (i) What is your diagnosis? (ii) How do you manage the condition? (iii) What are the complications?	<a href="#">Check Solution</a>
Q4 (A) (i)	How do you differentiate between acute lymphoblastic leukaemia (ALL) and acute myeloid leukaemia (AML) based on peripheral smear and bone marrow findings?	<a href="#">Check Solution</a>
Q4 (A) (ii)	Describe the current standard of care for acute lymphoblastic leukaemia (ALL) in adults and children.	<a href="#">Check Solution</a>
Q4 (B)	Enumerate the various types of vaccines available in National Immunization Schedule (NIS) in children. Define adverse events following immunization. State the adverse events of any three vaccines.	<a href="#">Check Solution</a>
Q4 (C)	Discuss the diagnostic approach to and curative management of renovascular hypertension.	<a href="#">Check Solution</a>
Q5 (A) (i)	Enumerate the advantages as well as the limitations of laparoscopic surgery.	<a href="#">Check Solution</a>
Q5 (A) (ii)	Describe the different techniques of creating pneumoperitoneum during laparoscopic surgery.	<a href="#">Check Solution</a>
Q5 (B)	Describe the aetiology, clinical features and management of anal fissure.	<a href="#">Check Solution</a>
Q5 (C) (i)	Define maternal mortality rate (MMR) and enumerate the causes of maternal mortality in India.	<a href="#">Check Solution</a>
Q5 (C) (ii)	What are the steps to be taken to reduce maternal mortality in India?	<a href="#">Check Solution</a>
Q5 (D)	Discuss the clinical features, diagnosis and treatment of pelvic endometriosis.	<a href="#">Check Solution</a>
Q5 (E)	Explain the significance of the 'Kilkari' initiative with reference to National Rural Health Mission. Who is it aimed at and how is it being implemented?	<a href="#">Check Solution</a>
Q6 (A) (i)	Classify hypertensive disorders in pregnancy.	<a href="#">Check Solution</a>
Q6 (A) (ii)	Enumerate the types and complications of eclampsia.	<a href="#">Check Solution</a>
Q6 (A) (iii)	Discuss the management of antepartum eclampsia in a 25-year-old primigravida with 32 weeks of pregnancy.	<a href="#">Check Solution</a>
Q6 (B) (i)	Describe the clinical features and management of ulcerative colitis.	<a href="#">Check Solution</a>
Q6 (B) (ii)	Enlist the differences between ulcerative colitis and Crohn's disease.	<a href="#">Check Solution</a>
Q6 (C)	What are the major objectives of 'Home-based Newborn Care'? State the responsibilities that 'ASHA' is entrusted with to make the programme a success.	<a href="#">Check Solution</a>
Q7 (A) (i)	Describe the clinical features and diagnostic workup of a suspected case of peritonitis.	<a href="#">Check Solution</a>
Q7 (A) (ii)	Enumerate the principles of management of peritonitis.	<a href="#">Check Solution</a>

Q7 (A) (iii)	Enlist the important complications of peritonitis.	<a href="#">Check Solution</a>
Q7 (B)	Anaemia Mukt Bharat Programme' employs a multipronged approach. What are the interventions it focuses on to achieve its goals? What are the specific measures being undertaken under this programme? Which are the specific population groups that this programme targets?	<a href="#">Check Solution</a>
Q7 (C) (i)	Define infertility. How will you investigate the tubal factors of female infertility?	<a href="#">Check Solution</a>
Q7 (C) (ii)	Enumerate the assisted reproductive technology (ART) procedures.	<a href="#">Check Solution</a>
Q8 (A)	Under the National Framework for Malaria Elimination in India, what are the targets set for the years 2027 and 2030 respectively? What are the key interventions recommended for States and UTs which require intensified control and fall under Category 3? Which are the parameters employed for maintaining epidemiological surveillance over malaria?	<a href="#">Check Solution</a>
Q8 (B) (i)	Describe the WHO medical eligibility criteria for contraceptive use for women with medical conditions.	<a href="#">Check Solution</a>
Q8 (B) (ii)	Discuss the complications of intrauterine contraceptive device (IUCD).	<a href="#">Check Solution</a>
Q8 (B) (iii)	How will you manage a case of misplaced copper-T (Cu-T)?	<a href="#">Check Solution</a>
Q8 (C)	Describe the embryogenesis, clinical features and principles of management of cleft palate.	<a href="#">Check Solution</a>