

CSM—51/23
PART—II/PAPER—VII
MEDICAL SCIENCE
PAPER—II

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Time : 3 Hours

Full Marks : 250

The figures in the right-hand margin indicate marks.

*The question paper contains **18 (Eighteen)** questions
in **GROUP—A (12)** and **GROUP—B (06)** together.*

GROUP—A

*Candidates to attempt **10 (ten)** questions within word limit of **250**.*

*Each question carries **15** marks.*

1. A 60-year-old gentleman presents with anemia, Hb 6.8 g/dL. Apart from weakness, there are no localizing symptoms or signs. He was diagnosed with myocardial infarction 8 years earlier and remains asymptomatic on atorvastatin and low dose aspirin since the M.I.
 - (i) What is the likely cause of anemia in this patient?
 - (ii) Which laboratory investigations are helpful in his management?
 - (iii) What is the appropriate treatment for this condition? 15

2. (a) (i) Write the atypical presentations of scabies.
 - (ii) Describe the management of scabies in a neonate, in a child less than 2 years of age, an adult and a pregnant female.
 - (iii) State the causes which can lead to persistent itching following the administration of scabicide therapy. 10

- (b) Describe the various theories which have been proposed to explain the pathogenesis of vitiligo. 5

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3. A 22-year-old primi mother comes to you with complaint of 'NOT EXPRESSING MILK'. Due to this, her baby remains hungry and is constantly biting at her nipples. She is feeling soreness in the nipples.
 - (i) How will you assess the mother child duo to identify the underlying etiology of 'NOT ENOUGH MILK'? Discuss briefly.
 - (ii) Outline the four criteria each for 'correct positioning' and correct attachment of the baby for proper breastfeeding.
 - (iii) Discuss in brief the management of sore nipples. 15
4. (a) Discuss in brief the role of USG in the management of liver abscess. 5
 - (b) A 40-year-old man gives history of gradual loss of weight and altered bowel habits for last 2 years. 10
 - (i) What is the differential diagnosis that you would consider?
 - (ii) How will you manage idiopathic tropical malabsorption syndrome?
5. A 25-year-old married lady presents with history of 10 weeks amenorrhea, acute lower abdominal pain and fainting. On clinical examination, she has tachycardia, hypotension and pelvic tenderness.
 - (i) What is most likely diagnosis?
 - (ii) How would you investigate such a patient?
 - (iii) How would you manage such a patient? List the key points. 15
6. A 4-year-old child presents with a stunted growth and moderate pallor. The child had history of intermittent diarrhea.
 - (i) Mention the differential diagnosis.
 - (ii) Mention the investigation required for the diagnosis of celiac disease.
 - (iii) Outline the management of celiac diseases in children. 15
7. (a) Write briefly about the medical management of peptic ulcer disease. 5
 - (b) Enumerate various surgeries for duodenal ulcer. 5
 - (c) Discuss in brief about the sequelae peptic ulcer surgery. 5

- 8. (a)** What are the objectives of investigating an epidemic? 5
- (b)** Briefly state the various steps you would undertake while investigating an epidemic. 10
- 9.** A woman forgot to take her pill last night and is worried about the risks of pregnancy. She is on combined oral contraceptives.
- (i)** If she seeks your advice what will be it?
- (ii)** What is meant by Pearl Index?
- (iii)** Which contraceptive methods have lowest Pearl Index?
- (iv)** What are the criteria for an ideal contraceptive? 15
- 10. (i)** What is Stevens-Johnson Syndrome?
- (ii)** Enumerate the common etiological factors and pathological events leading to its clinical manifestation.
- (iii)** What is the mortality rate of this syndrome and toxic epidermal necrolysis? 15
- 11.** A 50-year-old male presented with fluctuating jaundice and melena for last 3 months. He is also giving the history of itching and clay-coloured stools.
- (i)** How will you investigate this patient?
- (ii)** What is the differential diagnosis?
- (iii)** Write Courvoisier law. 15
- 12. (a)** Briefly state the basis which led to setting up of program 'Mission Indradhanush'. What are its targets and eventual goals? 5
- (b)** Under the National Filaria Control Program, what is the strategy being adopted to achieve the elimination of lymphatic filariasis? 5
- (c)** Define the criteria which must be met to state that elimination of lymphatic filariasis has been achieved. 5

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GROUP—B

Candidates to attempt **05 (five)** questions within word limit of **300**.
Each question carries **20** marks.

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- 13.** (a) What are the current guidelines regarding the classification of hypertension? 8
- (b) Enumerate the causes of secondary hypertension. 6
- (c) Enumerate the various antihypertensive drugs based on their mechanism of action. 6
- 14.** (a) (i) What are the maternal risks in breech presentation?
(ii) Does external cephalic version reduce the incidence of breech and caesarean delivery and perinatal mortality?
(iii) Why is external cephalic version recommended at 37 weeks of POG and not before?
(iv) What is Lovset maneuver? 10
- (b) (i) What is PAP smear?
(ii) Briefly state its procedures.
(iii) How do you interpret the results? 10
- 15.** (a) Mention the important causes of mortality in children under 5 years of age. 5
- (b) Enlist the vaccines which can reduce the incidence of acute respiratory infection in children. 5
- (c) Mention the measures to reduce the transmission of HIV from child to mother. 5
- (d) What are the causes of neonatal jaundice? 5
- 16.** (a) An 18-year-old girl has attacks of sweating, restlessness, insomnia and fear.
(i) Discuss the differential diagnosis.
(ii) Outline the principles and management of generalized anxiety disorder. 10

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(b) A young 23-year-old woman attempted suicide thrice in last one year.

(i) What is the cause of her condition?

(ii) How do you diagnose and manage major depressive disorder? 10

17. (a) (i) List the causes of tongue ulcer.

(ii) State the predisposing factors which may lead to the development of tongue carcinoma.

(iii) What is the preferred modality of treatment in the carcinoma of tongue? 10

(b) A 40-year-old lady presents in the OPD with complaints of right-side breast lump for last one year which is progressively increasing in size.

(i) How will you evaluate the patient?

(ii) Briefly outline the treatment of early breast cancer. 10

18. (a) Drug resistant TB has emerged as a major public health challenge before the country. Keeping this in context, answer the following :

(i) What are the major culpable factors which have led to the situation?

(ii) To limit the burden of MDR TB and XDR TB, health experts have drawn 7-point plan of action. State those seven points in brief. 15

(b) Discuss the management of psoriatic arthritis. 5

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