

SECOND YEAR THEORY EXAM- AUGUST 2017
PAPER II-SURGERY AND ALLIED SCIENCES

QP .CODE: 434012

Time: Three Hours

Maximum Marks: 100

INSTRUCTIONS

- The paper will be for a total of **100 Marks**.
- Answer **all** the Questions.
- The Paper has 2 parts – **Part A & Part B**.
- **Part A** will be **descriptive type questions** based on case scenarios. **(40 Marks)**
- **Part B** will have Objective type EMQs **Extended Matching Questions**. **(60 Marks)**
 - ✓ This will have 10 sets of these questions.
 - ✓ Each set will have 6 questions.
 - ✓ Each question will carry 1 mark.
 - ✓ Each set has a **theme** on the top. In each set there are **some options** given on the top followed by some **questions**. The options are lettered using the English Alphabets A, B, C, D and so on.

Example:

3. THEME –COMMON PSYCHIATRIC PROBLEMS [QUESTIONS. 3(i) – 3(vi)] (6marks)

From the options ‘A to H’ given below, choose the best answer for the questions 3(i) – 3(vi)

Options:

- A. Inj. Haloperidol
- B. Amitriptyline + counseling
- C. Tab. Chlorpromazine
- D. Tab. Trihexyphenidyl
- E. Tab. Diazepam
- F. Tab. Lithium
- G. Inj. Fluphenazine deconoate
- H. Tab. Risperidone

Questions: What is your treatment option in the following cases?

- 3(i) What is the drug of choice for Acute Psychosis?
- 3(ii) What is the drug of choice for Bipolar illness?

❖ Match each question to a **single best option** and write it in your paper in the column provided like this:

❖ Each option may be used more than once. Some options may not be used at all.

3(i)	
3(ii)	
3(iii)	
3(iv)	
3(v)	
3(vi)	

PART – A
DESCRIPTIVE QUESTIONS
(ANSWER ALL QUESTIONS)

1. **Twenty year old Mr. Thilak has come to you with the complaint of redness of the right eye for the past 2 days. There is no history of trauma. There is irritation and watering of the eye. On examination, the whole of the right eye is red including the eyelids. There is no photophobia.** (Total: 20 Marks)
- A. What are the causes of red eye? Classify. (4 Marks)
 - B. In a patient with red eye, what are the red flags you will ask for in the history? (3 Marks)
 - C. What are the red flags you would look for in the examination of red eye? (7 Marks)
 - D. What is your diagnosis for Mr. Thilak? How will you manage him? (4 Marks)
 - E. What is the complication you will anticipate in him and how will you manage?(2 Marks)
2. **Fifty year old Mr. Raman has been brought to you with a head injury, sustained about an hour and a half ago. He fell down from the stairs and rolled down 12 steps rapidly.** (Total: 20 Marks)
- A. What are the factors causing secondary injury to the brain that should be prevented by an attending doctor? (4 Marks)
 - B. How will you stabilize Mr. Raman? (5 Marks)
 - C. How will you examine him? (6 Marks)
 - D. When will you refer him?
 - i. Mention the factors influencing your decision to transfer the patient. (2 Marks)
 - ii. Red flags in head injury (3 Marks)

PART – B
EXTENDED MATCHING QUESTIONS
(ANSWER ALL QUESTIONS)

1. **Theme: Common Orthopedic Problems [Questions 1(i) - 1(vi)]** (Total: 6 Marks)
From the options 'A to J' given below, choose the best answers for the questions 1(i) to 1(vi)

Options:

- | | |
|------------------------------|------------------------------|
| A. Elbow dislocation | F. Bennett fracture |
| B. Frozen shoulder | G. Proximal humerus fracture |
| C. Scaphoid fracture | H. Gamekeepers thumb |
| D. Colles fracture | I. Supracondylar fracture |
| E. Shaft of humerus fracture | J. Boxers fracture |

Questions:

- 1(i). 61 year old Mrs. Kamalam comes with right shoulder pain for the past one year. She gives no history of trauma and she is not able to comb her hair. What is the likely diagnosis?

1(ii). Mr. Ramesh 25 year old is brought with right wrist drop. He says he fell from his 2nd floor terrace and landed on his outstretched hand. Where is his fracture likely to be?

1(iii). Mrs. Gomathy 45 year old lady fell with her hand and wrist outstretched and complains of pain over her anatomical snuff box. What fracture does she have?

1(iv). Mrs. Parvathy 65yrs old fell on her outstretched hand and came with dinner fork deformity. What fracture do you suspect?

1(v). Ruby 8 year old comes with S deformity of her elbow after falling on her outstretched hand. What condition does she have?

1(vi). Suresh comes with dropped knuckle deformity. What is the diagnosis?

2. Theme: Inguinoscrotal Swellings [Questions 2(i) - 2(vi)] (Total:6 Marks)

From the options 'A to J' given below, choose the best answers for the questions 2(i) to 2(vi)

Options:

- | | |
|--------------------|--------------------------|
| A. Femoral hernia | F. Carcinoma |
| B. Inguinal hernia | G. Testicular torsion |
| C. Hydrocele | H. TB epididymo orchitis |
| D. Sliding hernia | I. Gumma |
| E. Varicocele | J. Spigelian hernia |

Questions: What is your diagnosis?

2(i). 32 yrs. old Mr. Sudhir comes with a groin swelling on left side with positive cough impulse medial to the pubic tubercle.

2(ii). A young couple being evaluated for primary infertility comes to clinic. The male partner is 32 yrs old and says he has a left scrotal swelling. You examine him and the swelling feels like a bag of worms.

2(iii). Rakesh a 15 yr old boy comes with pain in the abdomen and scrotum. He has also been vomiting. You examine him and try to elevate the scrotum but his pain only worsens.

2(iv). 35 yr old Mr. Kasi comes with a painless scrotal swelling and you palpate a beaded vas deferens.

2(v). 60 yr old Kamala comes with right groin swelling for 2 years. She says it has become painful for the last week. On examination, the swelling originates lateral to the pubic tubercle and is non-reducible.

2(vi). 40 yrs old Mr. Vishwa presented with right testicular swelling without pain. Trans-illumination test was negative.

3. Theme: Treatment for Oral Health [Questions 3(i) to 3(vi)] (Total: 6 Marks)

From the options 'A to J' given below, choose the best answers for the questions 3(i) to 3(vi)

Options:

- | | |
|----------------------------------|--------------------------------------|
| A. No intervention | C. Proper brushing and flossing only |
| B. Use straw to drink beverages. | D. Antibiotics with NSAIDs |

- E. Replace tooth
- F. Steroids
- G. Biopsy

- H. Root canal therapy
- I. Scaling
- J. Chew sugarless gum

Questions: What do you advise in the following situations?

- 3(i). 2 year old Premavathy is brought with yellow coloured teeth. Her mother had tried brushing with whitening toothpaste but there was no change. She says she had taken some medications while pregnant with this child but does not remember what they were.
- 3(ii). 16 year old Surya comes with the complaint of halitosis. She had hard deposits on the gum line.
- 3(iii). 40 year old Mr. Prakash comes with an ulcer on the inner aspect of his cheek for one month. You find his teeth are stained with nicotine and there are packets of pan in his shirt pocket.
- 3(iv). 25 year old Samuel had fallen while playing cricket with his friends and two of his front teeth had fallen out. His parents bring him to the clinic as soon as the incident happened.
- 3(v). 40 year old Mahesh comes with right sided facial swelling and toothache. On examination you find swollen gums and pain on tapping tooth with spatula.
- 3(vi). 50 year old Kavitha is brought by her son for having bad odour in the mouth. She has already tried good oral hygiene.

4. Theme: Diagnosis in Diminished Vision [Questions 4(i) to 4(vi)] (Total: 6 Marks)

From the options 'A to L' given below, choose the best answers for questions 4 (i) to 4 (vi)

Options:

- | | |
|---------------------------------|--------------------------------|
| A. Refractive error | G. Vitamin A deficiency |
| B. Keratoconus | H. Amaurosis fugax |
| C. Age related cataract | I. Optic neuritis |
| D. Retinal detachment | J. Keratitis |
| E. Diabetic retinopathy | K. Phacolytic glaucoma |
| F. Acute angle closure glaucoma | L. Primary open angle glaucoma |

Questions: identify the diagnosis?

- 4(i). 12 year old Seema comes with difficulty in seeing the blackboard for the last 6 months associated with headache.
- 4(ii). 60 yr old Velu comes with progressive diminished vision and seeing halos. There is no associated headache.
- 4(iii). 60 year old Madan comes with right sided sudden loss of vision and seeing floaters.
- 4(iv). 40 years old Martin comes with the complaints of headache and changes his presbyopic glasses frequently.
- 4(v). 50 years old Susan comes with pain, redness, photophobia and suddenly diminishing vision in her right eye.
- 4(vi). 8 year old Kavi is brought with history of having difficulty in seeing in dimlight.

5. Theme: Diagnosis in Oral Health [Questions 5 (i) - 5 (vi)] (Total: 6 Marks)
From the options 'A to K' given below, choose the best answers for the questions 5(i) to 5(vi)

Options

- | | |
|----------------------------|-------------------------------|
| A. Dental caries | G. Gingivitis |
| B. Aphthous ulcer | H. Smoking |
| C. Herpetic ulcer | I. Malignant ulcer |
| D. Dental abscess | J. Chewing habits |
| E. Phenytoin | K. Alcohol consumption |
| F. Sodium valproate | |

Questions:

- 5(i).** 40 year old Mr. Narayan presented with complaints of severe continuous pain in the left lower premolar associated with yellowish brown coloured teeth and bad breath. On examination there is a gum bubble at the root and pain in the tooth on tapping with a metal spatula. What is the possible diagnosis?
- 5(ii).** 35 year old Mrs. Sarika, known epileptic comes to you with the complaint of having problem in the gums. On examination you see hypertrophy of the gums and the teeth are normal. What could be the reason for her problem?
- 5(iii).** 20 year old girl Ms. Sanya comes to you with the complaint of painful ulcers on the inside of the cheeks and lips. She started getting these ulcers recently since 3 months, which comes and goes intermittently. She is worried about her oral ulcers. On examination, you see the ulcer is white and yellow with the area around it bright red and margins are regular. No regional lymphadenopathy. What is your possible diagnosis?
- 5(iv).** 59 years old Mr Subhash presented with complaints of a painless ulcer in the mouth behind the last molar tooth since 5 months. He is a chronic smoker. He gives a history of injury whiling biting and chewing something hard. On examination there is an irregular margin and the ulcer bleeds on touch? Regional lymphadenopathy present. What is the possible diagnosis?
- 5(v).** 52 years old Mr. Muthusamy comes to you with the cancer of the angle of the mouth. What could be the most common cause for this?
- 5(vi).** 57 years old Mrs. Rupali comes to you with the complaint of growth over the gingivobuccal sulcus and mandibular alveolus. What could be the most common cause for this?

6. Theme: Treatment for Red Eye [6 (i) – 6(vi)] (Total: 6 Marks)
From the options 'A to I' given below, choose the best answer for the questions 6(i) – 6(vi)

Options:

- | | |
|---|--|
| A. Excision | D. Topical steroids |
| B. Tape the lid to the skin of the cheek with adhesive plaster | E. Tarsal injection of gentamycin OD for a week |
| C. Ketorolac 0.5% drops | |

F. Tab. Ciprofloxacin 500 mg OD for 6 weeks

G. Tab. Doxycycline 100 mg OD for 6 weeks

H. Ciprofloxacin ointment

I. Taping the lateral canthal skin supero-temporally with adhesive plaster

Questions: What is the management?

6(i). Mrs. Radha, a 65 year old retired clerk has entropion in both the eyes. She is not willing for surgery. The temporary method of treating her condition is?

6(ii). 19 year old Mr. Tony has chronic internal hordeolum. What is the definite treatment for him?

6(iii). 44 year old Mr. Salim has persistent posterior blepharitis. How would you treat him?

6(iv). Mrs. Latha has ectropion in both eyes due to post burn facial scarring. She is not willing for surgery. The temporary relief method is?

6(v). 10 year old Aisha has chronic dacryocystitis. The definitive treatment for her will be?

6(vi). 11 year old Karan has simple allergic conjunctivitis of moderate severity. The treatment of choice for him will be?

7. Theme: Management of Diminished Vision [7 (i) – 7 (vi)] (Total: 6 Marks)

From options 'A to L' given below, choose the best answer for the questions 7(i) – 7(vi):

Options:

A. Trabeculectomy.

B. Laser Iridotomy

C. Primary open angle glaucoma

D. 5 years after the onset of diabetes

E. At the time of diagnosis

F. 10 years after the onset of diabetes

G. Oral 50% glycerol

H. Tab. Acetazolamide

I. 200,000 IU orally every 6 months

J. Subluxation of lens.

K. Primary angle closure glaucoma

L. 100,000 IU every 3-6 months

Questions:

7(i). Talitha, 51 years old lady is a newly diagnosed type 2 diabetic, coming to you. Her blood sugars are under control. When will you do first fundus examination for her?

7(ii). Mrs. Jasmine brings her 7 month old baby to you for vaccination. What is the WHO recommended schedule for prophylaxis against Vitamin A deficiency?

7(iii). 10 years old Sameera is diagnosed to have Type I DM. When is the recommended time of the first ophthalmic examination for her?

Mr. Bharat, aged 71 years is brought to you with sudden onset of severe right sided headache and painful decreased vision in right eye. On examination, you can see ciliary congestion & shallow anterior chamber.

7(iv). What is your possible diagnosis?

7(v). What immediate treatment will you give to Mr. Bharat?

7(vi). What is the surgery of choice for him?

8. Theme: Anaesthesia in Family Medicine [Questions 8(i)- 8(vi)] (Total: 6 Marks)
From the options 'A to P' given below, choose the best answers for the questions 8 (i) – 8 (vi)

Options:

- | | |
|-------------------------------|------------------------|
| A. Atropine | I. 1% Lignocaine |
| B. Hypotension | J. Pentazocine |
| C. 20-30 minutes | K. 2 hours |
| D. 0.5% Lignocaine | L. 10-15 minutes |
| E. 5% Bupivacaine heavy | M. Nausea and vomiting |
| F. Promethazine | N. 1 hour |
| G. Diazepam | O. Midazolam |
| H. Lignocaine with adrenaline | P. Ephedrine |

Questions:

36 years old Mrs. Nalini delivered her 3rd child. She requested you for permanent sterilization. You are planning to do a postpartum tubectomy for her.

- 8(i). Which drug will you prefer to use for Mrs Nalini's pain relief?
8(ii). What will be the most common side effect?
8(iii). To prevent that side effect which drug will you add?

Mr. Solomon comes to you with the complaint of paronychia in the left ring finger. You are planning to give him a digital block.

- 8(iv). Which drug will you give Mr. Solomon for digital block?
8(v). When will the drug begin to act?
8(vi). What is the duration of anaesthesia you expect from this agent?

9. Theme: Sites for Anesthesia [Questions 9(i) - 9 (vi)] (Total: 6 Marks)
From the options 'A to N' given below, choose the best answers for questions 9(i) to 9(vi)

Options:

- A. 6'O clock and 12 'O clock position
- B. 1'O clock and 11 'O clock position
- C. Between the medial malleolus and the calcaneum just behind the posterior tibial artery
- D. Between the medial malleolus and calcaneum, 2 cm lateral to the posterior tibial artery
- E. Between the lateral malleolus and calcaneum, 2 cm medial to the posterior tibial artery
- F. Web space at the base of the finger, just distal to the MCP
- G. At the junction of proximal and middle phalanx, in the lateral aspect
- H. At the junction of proximal and middle phalanx, in the dorsal crease
- I. Lateral to the Palmaris tendon, in proximal wrist crease.
- J. Medial to the Palmaris tendon, in distal wrist crease.
- K. Medial to the Palmaris tendon, in proximal wrist crease.
- L. Intervertebral space between L 4- L 5
- M. Intervertebral space between L 2 – L3
- N. Intervertebral space between L1- L2

Questions: Pick the sites for anesthesia:

- 9(i).** Mr. Viswanathan has come with a paraphimosis and you need to reduce it. The sites for block are
- 9(ii).** You want to give a wrist block for a procedure. The site is
- 9(iii).** Mrs. Savithri needs an amputation of right big toe and the second toe. The sites for block are
- 9(iv).** Mrs. Deepa has come with a felon in the right index finger. The site for block is
- 9(v).** The site for anaesthesia for Mrs. Devi who is posted for emergency LSCS
- 9(vi).** Mr. Wilson has come with a laceration in the proximal phalanx of the right second finger. You need to do suturing.

10. Theme: Management of Orthopedic Conditions [Questions 10(i) - 10(vi)]

(Total: 6 Marks)

From the options 'A to F' given below, choose the best answers for the questions 10(i) – 10 (vi)

Options:

- | | |
|-----------------------------|------------------|
| A. Traction | D. Cast |
| B. Internal fixation | E. Sling |
| C. External fixation | F. Splint |

Questions:

- 10(i).** Mr. Subhash has a contaminated grade 3 fracture of right humerus. The type of fracture management he needs is
- 10(ii).** 7 year old Giri has a simple fracture of right ulna. It happened yesterday and the right forearm is badly swollen. The type of fracture management that should not be done in the primary management of his condition is
- 10(iii).** 60 year old Mrs. Janet has a left acetabular fracture. The type of fracture management that can be done in the primary management for her condition is
- 10(iv).** Mr. Yuvaraj had a shoulder injury 2 weeks ago. But he has come only today because the shoulder pain is still persisting. His X-ray shows a mal-aligned fractured left clavicle. The type of definitive fracture management for Mr. Yuvaraj is
- 10(v).** 30 year old Mr. Kannan has had an internal fixation for his fracture humerus. The additional type of fracture management he needs is
- 10(vi).** Mr. Sudan has sustained fracture of right femur in a road traffic accident. The type of fracture management that should be done in the primary management of his condition during transfer is
