

INI CET Dermatology

Sample Paper – 2

Duration: 14 Minutes

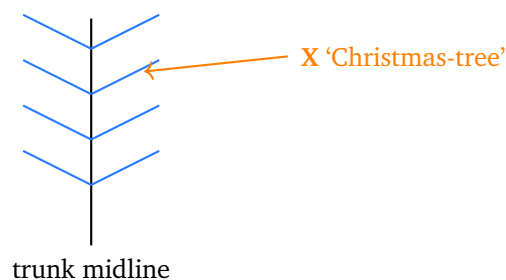
Maximum Marks: 15

Instructions

- This paper contains **15** Multiple Choice Questions (Single Best Response), modelled on the Dermatology and Venereology content of **INI CET** (Institutes of National Importance Combined Entrance Test) conducted by AIIMS New Delhi.
- The **15-question** length matches the number of Dermatology items you actually meet in the real 200-question paper.
- Each correct answer carries **+1 mark**. There is **negative marking of one-third (0.33) mark** for every incorrect answer; unattempted questions carry no penalty.
- Every question has **exactly one best answer**. Choose the single most appropriate option.
- Attempt this practice paper in one timed sitting of about **14 minutes**, the pace the real computer-based test demands.

Papulosquamous and Eczematous Disorders

Q1. A single larger scaly oval patch (the herald patch) appears first, followed a week later by many smaller oval scaly lesions on the trunk whose long axes run along the skin creases, giving the 'Christmas-tree' pattern sketched below (arrow X). The diagnosis is:



(A) Psoriasis



- (B) Pityriasis rosea
- (C) Lichen planus
- (D) Seborrhoeic dermatitis

Q2. Greasy yellowish scaling over the scalp, eyebrows, nasolabial folds and behind the ears, linked to overgrowth of *Malassezia* yeast, is:

- (A) Seborrhoeic dermatitis
- (B) Atopic dermatitis
- (C) Psoriasis
- (D) Tinea capitis

Q3. An itchy, eczematous eruption confined to the site where a nickel earring or a cosmetic touches the skin, mediated by a type IV (delayed) hypersensitivity reaction and confirmed by patch testing, is:

- (A) Allergic contact dermatitis
- (B) Atopic dermatitis
- (C) Psoriasis
- (D) Lichen planus

Cutaneous Infections

Q4. Multiple hypopigmented, finely scaly macules over the upper trunk of a young adult, with a 'spaghetti-and-meatballs' appearance of short hyphae and round spores on potassium hydroxide (KOH) microscopy, are caused by *Malassezia*. This is:

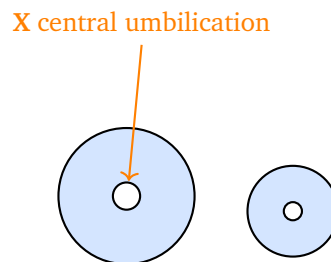
- (A) Vitiligo
- (B) Pityriasis (tinea) versicolor
- (C) Pityriasis alba
- (D) Indeterminate leprosy

Q5. A well-demarcated, raised, bright-red, warm and tender plaque on the lower leg of a febrile patient, with a sharp palpable edge and caused mainly by *Streptococcus pyogenes*, is:



- (A) Impetigo
- (B) Erysipelas
- (C) Allergic contact dermatitis
- (D) Herpes zoster

Q6. The lesions sketched below are small, firm, dome-shaped papules with a central dimple (umbilication, marked **X**), caused by a poxvirus and spread by contact. They are:



- (A) Herpes simplex
- (B) Impetigo
- (C) Molluscum contagiosum
- (D) Common viral wart

Vesiculobullous and Autoimmune Disorders

Q7. Intensely itchy, grouped small vesicles symmetrically over the extensor elbows, knees and buttocks, with granular IgA deposits at the dermal papillae and a strong link to coeliac disease, characterise:

- (A) Pemphigus vulgaris
- (B) Bullous pemphigoid
- (C) Pemphigus foliaceus
- (D) Dermatitis herpetiformis

Q8. A young woman with a symmetrical red rash over the cheeks and bridge of the nose that spares the nasolabial folds (malar 'butterfly' rash), photosensitivity and a positive antinuclear antibody (ANA) test most likely has skin signs of:



- (A) Dermatomyositis
- (B) Rosacea
- (C) Systemic lupus erythematosus
- (D) Psoriasis

**Infestations, Sexually Trans-
mitted Infections and Leprosy**

- Q9.** Itching of the scalp in a schoolchild, with tiny oval whitish eggs (nits) firmly cemented to the hair shafts near the scalp, is caused by:
- (A) Pediculosis capitis (head lice)
 - (B) Tinea capitis
 - (C) Seborrhoeic dermatitis
 - (D) Scabies
- Q10.** A painful, non-indurated genital ulcer with a ragged undermined edge and a soft base, appearing a few days after exposure and caused by *Haemophilus ducreyi*, is:
- (A) Syphilis (*Treponema pallidum*)
 - (B) Genital herpes
 - (C) Gonorrhoea
 - (D) Chancroid (*Haemophilus ducreyi*)
- Q11.** A patient with numerous symmetrical skin nodules and plaques, diffuse thickening of the facial skin producing a 'leonine facies', and abundant acid-fast bacilli on slit-skin smear, has:
- (A) Tuberculoid leprosy
 - (B) Vitiligo
 - (C) Pityriasis versicolor
 - (D) Lepromatous leprosy

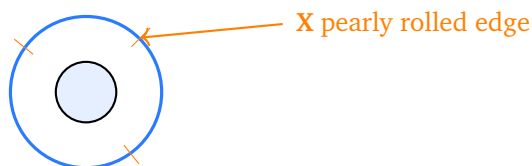


Pigmentary, Hair and Drug Reactions

- Q12.** Symmetrical, light-to-dark brown patches of hyperpigmentation over the cheeks, forehead and upper lip of a woman, worsened by pregnancy, sun exposure and hormones, indicate:
- (A) Melasma
 - (B) Vitiligo
 - (C) Freckles (ephelides)
 - (D) Post-inflammatory hyperpigmentation
- Q13.** A well-defined round dusky-red plaque that leaves residual pigmentation and recurs at the *same* site every time a particular drug is taken is a:
- (A) Erythema multiforme
 - (B) Urticaria
 - (C) Fixed drug eruption
 - (D) Allergic contact dermatitis

Skin Tumours and Dermatological Emergencies

- Q14.** The lesion sketched below sits on the sun-exposed face of an elderly patient: a slow-growing nodule with a pearly, rolled, raised edge crossed by fine telangiectatic vessels and a central ulcer ('rodent ulcer', marked X). It is a locally invasive:



- (A) Malignant melanoma
- (B) Seborrhoeic keratosis
- (C) Basal cell carcinoma
- (D) Actinic keratosis



- Q15.** A severe drug reaction with painful target-like lesions, prominent erosions of two or more mucous membranes (mouth, eyes, genitals) and epidermal detachment of less than 10% of the body surface is:
- (A) Toxic epidermal necrolysis (TEN)
 - (B) Stevens-Johnson syndrome
 - (C) Fixed drug eruption
 - (D) Erythema multiforme minor



Detailed Solutions**Q1.****Solution**

Concept – pityriasis rosea: Pityriasis rosea is a self-limiting papulosquamous eruption, probably triggered by human herpesviruses 6 and 7.

Step 1 – read the sequence: A single larger **herald patch** appears first, then after about a week many smaller oval scaly lesions erupt on the trunk.

Step 2 – the pattern: The long axes of the oval lesions follow the skin cleavage lines, giving the classic '**Christmas-tree**' distribution (arrow X), each with a fine collarette of scale.

Why the other options are wrong:

- A, psoriasis: gives silvery scaly plaques on extensor surfaces, not a herald patch.
- C, lichen planus: gives violaceous polygonal papules with Wickham striae.
- D, seborrhoeic dermatitis: gives greasy scale on the scalp and face.

Final Answer: Pityriasis rosea ⇒ **B**

Answer: (B) [Go Back to Q1](#)

Q2.**Solution**

Concept – seborrhoeic dermatitis: Seborrhoeic dermatitis is a chronic eczema of the sebum-rich areas of the skin.

Step 1 – read the clue: **Greasy yellowish scaling** over the scalp, eyebrows, nasolabial folds and behind the ears is classic for seborrhoeic dermatitis.

Step 2 – the mechanism: An inflammatory response to overgrowth of *Malassezia* yeast on oily skin drives it; treatment uses antifungal and mild anti-inflammatory agents.

Why the other options are wrong:

- B, atopic dermatitis: is an itchy flexural eczema, not greasy central-face scaling.
- C, psoriasis: gives silvery scale on extensor surfaces.
- D, tinea capitis: is a KOH-positive scaly patch with broken hairs.



Final Answer: Seborrhoeic dermatitis $\Rightarrow$

Answer: (A) [Go Back to Q2](#)

Q3.

Solution

Concept – allergic contact dermatitis: Allergic contact dermatitis is a delayed, cell-mediated reaction to an external allergen.

Step 1 – read the clue: An itchy eczematous eruption **limited to the site** touched by nickel or a cosmetic points to allergic contact dermatitis.

Step 2 – the mechanism: It is a **type IV (delayed) hypersensitivity** reaction; **patch testing** identifies the responsible allergen.

Why the other options are wrong:

- B, atopic dermatitis: is a widespread flexural eczema with the atopic triad, not a contact-site rash.
- C, psoriasis: gives silvery scaly extensor plaques.
- D, lichen planus: gives violaceous polygonal papules with Wickham striae.

Final Answer: Allergic contact dermatitis $\Rightarrow$

Answer: (A) [Go Back to Q3](#)

Q4.

Solution

Concept – pityriasis (tinea) versicolor: Pityriasis versicolor is a superficial infection by *Malassezia* yeast.

Step 1 – read the lesion: **Hypopigmented, finely scaly macules** on the upper trunk of a young adult are typical of pityriasis versicolor.

Step 2 – confirmation: KOH microscopy shows the classic ‘**spaghetti-and-meatballs**’ mix of short hyphae and round spores.

Why the other options are wrong:

- A, vitiligo: is fully depigmented and *non-scaly*, and KOH is negative.
- C, pityriasis alba: gives faint pale facial patches in children, KOH negative.
- D, indeterminate leprosy: shows sensory change and no KOH hyphae.

Final Answer: Pityriasis (tinea) versicolor $\Rightarrow$



Answer: (B) [Go Back to Q4](#)

Q5.

Solution

Concept – erysipelas: Erysipelas is an acute bacterial infection of the upper dermis and superficial lymphatics.

Step 1 – read the clue: A **well-demarcated**, raised, bright-red, warm and tender plaque with a **sharp palpable edge** and fever is erysipelas.

Step 2 – the organism: It is caused mainly by *Streptococcus pyogenes*; the sharp raised border distinguishes it from the deeper, more diffuse cellulitis.

Why the other options are wrong:

- A, impetigo: gives honey-coloured crusts, not a hot tender plaque.
- C, contact dermatitis: is itchy and eczematous, not febrile and tender.
- D, herpes zoster: is a painful dermatomal vesicular rash, not a red plaque.

Final Answer: Erysipelas ⇒ **B**

Answer: (B) [Go Back to Q5](#)

Q6.

Solution

Concept – molluscum contagiosum: Molluscum contagiosum is a common skin infection caused by a poxvirus.

Step 1 – read the lesion: Firm, dome-shaped papules with a **central dimple (umbilication)** marked X, spread by skin contact, are molluscum contagiosum.

Step 2 – the course: The lesions contain a cheesy core (molluscum bodies) and usually clear spontaneously over months.

Why the other options are wrong:

- A, herpes simplex: gives grouped vesicles on an erythematous base, not umbilicated papules.
- B, impetigo: gives honey-coloured crusts.
- D, common viral wart: is a rough hyperkeratotic papule without central umbilication.

Final Answer: Molluscum contagiosum ⇒ **C**



Answer: (C) [Go Back to Q6](#)

Q7.

Solution

Concept – dermatitis herpetiformis: Dermatitis herpetiformis is the cutaneous expression of gluten sensitivity.

Step 1 – read the clues: Intensely itchy grouped vesicles symmetrically over the extensor elbows, knees and buttocks are typical of dermatitis herpetiformis.

Step 2 – the immunology: Direct immunofluorescence shows granular IgA at the dermal papillae, and there is a strong association with coeliac disease; a gluten-free diet and dapsone help.

Why the other options are wrong:

- A, pemphigus vulgaris: has flaccid intraepidermal bullae with a positive Nikolsky sign.
- B, bullous pemphigoid: has tense subepidermal bullae with linear IgG/C3.
- C, pemphigus foliaceus: is a superficial pemphigus with scaly erosions.

Final Answer: Dermatitis herpetiformis ⇒

Answer: (D) [Go Back to Q7](#)

Q8.

Solution

Concept – systemic lupus erythematosus (SLE): SLE is a multisystem autoimmune disease with characteristic skin signs.

Step 1 – read the clues: A symmetrical malar ‘butterfly’ rash that spares the nasolabial folds, with photosensitivity, points to the skin signs of SLE.

Step 2 – confirmation: A positive antinuclear antibody (ANA) test supports it; more specific antibodies (anti-dsDNA, anti-Sm) confirm the disease.

Why the other options are wrong:

- A, dermatomyositis: gives a heliotrope rash and Gottron papules, with muscle weakness.
- B, rosacea: gives central-face flushing, papules and pustules, and *does not* spare the nasolabial folds in the same way.
- D, psoriasis: gives silvery scaly extensor plaques, not a photosensitive malar



rash.

Final Answer: Systemic lupus erythematosus $\Rightarrow$ C

Answer: (C) [Go Back to Q8](#)

Q9.

Solution

Concept – pediculosis capitis (head lice): Pediculosis capitis is infestation of the scalp by the head louse *Pediculus humanus capitis*.

Step 1 – read the clues: Scalp itch in a schoolchild with **oval whitish nits cemented to the hair shafts** near the scalp is head lice.

Step 2 – management: Topical permethrin or dimeticone plus wet combing, and treatment of affected close contacts, clears the infestation.

Why the other options are wrong:

- B, tinea capitis: gives scaly patches with broken hairs and is KOH/culture positive.
- C, seborrhoeic dermatitis: gives greasy scale, not nits on hair shafts.
- D, scabies: gives burrows in the finger webs and wrists, not scalp nits.

Final Answer: Pediculosis capitis (head lice) $\Rightarrow$ A

Answer: (A) [Go Back to Q9](#)

Q10.

Solution

Concept – chancroid: Chancroid is a sexually transmitted infection causing a painful genital ulcer.

Step 1 – read the ulcer: A **painful**, non-indurated ulcer with a **ragged undermined edge** and a soft base is chancroid.

Step 2 – the organism: It is caused by *Haemophilus ducreyi*; tender suppurative inguinal lymphadenopathy (bubo) may accompany it.

Why the other options are wrong:

- A, syphilis: gives a *painless* indurated chancre with a clean base.
- B, genital herpes: gives painful grouped vesicles that erode, not a single ragged ulcer.



- C, gonorrhoea: causes urethral discharge, not a genital ulcer.

Final Answer: Chancroid (*Haemophilus ducreyi*) ⇒ D

Answer: (D) [Go Back to Q10](#)

Q11.

Solution

Concept – lepromatous leprosy: Lepromatous leprosy is the multibacillary pole of leprosy, with weak cell-mediated immunity.

Step 1 – read the clues: Numerous symmetrical nodules and plaques with diffuse facial thickening ('leonine facies') indicate lepromatous leprosy.

Step 2 – confirmation: The slit-skin smear is strongly positive for acid-fast bacilli (high bacterial load), unlike the paucibacillary tuberculoid form.

Why the other options are wrong:

- A, tuberculoid leprosy: has few well-defined anaesthetic patches and a *negative* smear.
- B, vitiligo: is depigmentation with normal sensation and no bacilli.
- C, pityriasis versicolor: is a superficial fungal dyspigmentation.

Final Answer: Lepromatous leprosy ⇒ D

Answer: (D) [Go Back to Q11](#)

Q12.

Solution

Concept – melasma: Melasma is acquired symmetrical hyperpigmentation of sun-exposed facial skin.

Step 1 – read the clue: Symmetrical brown patches over the cheeks, forehead and upper lip of a woman indicate melasma.

Step 2 – the triggers: Pregnancy, sun exposure and hormones (oral contraceptives) drive increased melanin; sun protection is central to treatment.

Why the other options are wrong:

- B, vitiligo: is *loss* of pigment (white macules), the opposite of hyperpigmentation.



- C, freckles: are small light-brown macules that darken with sun, not confluent facial patches.
- D, post-inflammatory hyperpigmentation: follows a preceding inflammatory lesion at that site.

Final Answer: Melasma ⇒

Answer: (A) [Go Back to Q12](#)

Q13.

Solution

Concept – fixed drug eruption: A fixed drug eruption is a drug reaction that recurs at the same site on re-exposure.

Step 1 – read the clue: A well-defined round **dusky-red plaque** that leaves residual pigmentation and **recurs at the same site** each time the drug is taken is a fixed drug eruption.

Step 2 – the culprits: Common triggers include sulfonamides, non-steroidal anti-inflammatory drugs and paracetamol; withdrawal of the drug is curative.

Why the other options are wrong:

- A, erythema multiforme: gives widespread target lesions, not a single recurring plaque.
- B, urticaria: is transient itchy wheals that move and fade within hours.
- D, contact dermatitis: is an eczematous reaction at the site of an external contactant.

Final Answer: Fixed drug eruption ⇒

Answer: (C) [Go Back to Q13](#)

Q14.

Solution

Concept – basal cell carcinoma: Basal cell carcinoma is the commonest skin cancer, arising in sun-damaged skin.

Step 1 – read the lesion: A slow-growing nodule with a **pearly, rolled edge**, fine **telangiectasia** and a central ulcer ('rodent ulcer', marked X) on the face is a basal cell carcinoma.

Step 2 – the behaviour: It is **locally invasive** but rarely metastasises; excision or



other local treatment is usually curative.

Why the other options are wrong:

- A, malignant melanoma: is a pigmented lesion assessed by the ABCDE rule, not a pearly nodule.
- B, seborrhoeic keratosis: is a benign 'stuck-on' warty plaque.
- D, actinic keratosis: is a rough, scaly sun-damage patch, not a pearly ulcer.

Final Answer: Basal cell carcinoma ⇒

Answer: (C) [Go Back to Q14](#)

Q15.

Solution

Concept – Stevens-Johnson syndrome: Stevens-Johnson syndrome is a severe mucocutaneous drug reaction.

Step 1 – read the clues: Painful target-like lesions, **erosions of two or more mucous membranes** and epidermal detachment of **less than 10%** of the body surface define Stevens-Johnson syndrome.

Step 2 – the spectrum: It sits on a continuum with toxic epidermal necrolysis (which involves over 30% detachment); the culprit drug must be stopped at once.

Why the other options are wrong:

- A, toxic epidermal necrolysis: involves widespread detachment over 30% of the body surface.
- C, fixed drug eruption: is a single localised recurring plaque.
- D, erythema multiforme minor: has target lesions with little or no mucosal involvement or detachment.

Final Answer: Stevens-Johnson syndrome ⇒

Answer: (B) [Go Back to Q15](#)



Answer Key

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	2	A	3	A	4	B	5	B
6	C	7	D	8	C	9	A	10	D
11	D	12	A	13	C	14	C	15	B

