

NEET BIOLOGICAL CLASSIFICATION — KINGDOM FUNGI (PHYCOMYCETES, ASCOMYCETES, BASIDIOMYCETES, DEUTEROMYCETES) — PYQS

Max. Marks: 108

Questions: 27

Section A (MCQ) — 27 questions

Q.1 Match **List-I** with **List-II**. [RE-NEET (UG) 2026]

List-I		List-II	
A.	Fusion of protoplasts between gametes	I.	Meiosis
B.	Fusion of two nuclei	II.	Plasmogamy
C.	Generation of haploid spores	III.	Karyogamy

- (1) A-I, B-III, C-II (2) A-II, B-III, C-I
(3) A-II, B-I, C-III (4) A-III, B-II, C-I

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Q.2 Match **List I** with **List II**

List - I		List - II	
A.	<i>Rhizopus</i>	I.	Mushroom
B.	<i>Ustilago</i>	II.	Smut fungus
C.	<i>Puccinia</i>	III.	Bread mould
D.	<i>Agaricus</i>	IV.	Rust fungus

Choose the correct answer from the options given below:

[NEET (UG) 2024]

- (1) A-III, B-II, C-IV, D-I (2) A-I, B-III, C-II, D-IV
(3) A-III, B-II, C-I, D-IV (4) A-IV, B-III, C-II, D-I

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Q.3 Which one of the following is not a criterion for classification of fungi? [NEET (UG) 2024]

- (1) Morphology of mycelium
(2) Mode of nutrition
(3) Mode of spore formation
(4) Fruiting body

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Q.4 Identify the asexual reproductive structure associated with *Penicillium* : [NEET (UG) 2022]

- (1) Zoospores (2) Conidia
(3) Gemmules (4) Buds

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Q.5 Which of the following statements is correct? [NEET (UG) 2021]

- (1) Some of the organisms can fix atmospheric nitrogen in specialized cells called sheath cells
(2) Fusion of two cells is called Karyogamy
(3) Fusion of protoplasm between two motile or non-motile gametes is called plasmogamy
(4) Organisms that depend on living plants are called saprophytes

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Q.6 Which of the following statement is **incorrect**? [NEET (UG) 2019]

- (1) Conidia are produced exogenously and ascospores endogenously.
(2) Yeasts have filamentous bodies with long thread-like hyphae.
(3) Morels and truffles are edible delicacies.
(4) *Claviceps* is a source of many alkaloids and LSD.

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Q.7 Match **Column-I** with **Column -II**.

Column - I		Column - II	
a.	Saprophyte	i.	Symbiotic association of fungi with plant roots
b.	Parasite	ii.	Decomposition of dead organic materials
c.	Lichens	iii.	Living on living plants or animals
d.	Mycorrhiza	iv.	Symbiotic association of algae and fungi

Choose the **correct** answer from the options given below : [NEET (UG) 2019]

- (1) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
 (2) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
 (3) (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)
 (4) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)

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Q.8 After karyogamy followed by meiosis, spores are produced exogenously in [NEET 2018]

- (1) *Saccharomyces* (2) *Neurospora*
 (3) *Alternaria* (4) *Agaricus*

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Q.9 One of the major components of cell wall of most fungi is [NEET 2016 (Phase 1)]

- (1) cellulose (2) hemicellulose
 (3) chitin (4) peptidoglycan.

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Q.10 Which one of the following is wrong for fungi?

[NEET 2016 (Phase 2)]

- (1) They are eukaryotic.
 (2) All fungi possess a purely cellulosic cell wall.
 (3) They are heterotrophic.
 (4) They are both unicellular and multicellular.

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Q.11 Which one is a wrong statement? [AIPMT 2015]

- (1) Haploid endospore is typical feature of Gymnosperms.
 (2) Brown algae have chlorophyll a and c and fucoxanthin.
 (3) Archegonia are found in Bryophyta, Pteridophyta and Gymnosperms.
 (4) *Mucor* has biflagellate zoospores.

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full solution



Q.12 Choose the wrong statement. [AIPMT 2015]

- (1) Morels and truffles are poisonous mushrooms.
 (2) Yeast is unicellular and useful in fermentation.
 (3) *Penicillium* is multicellular and produces antibiotics.
 (4) *Neurospora* is used in the study of bio-chemical genetics.

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Q.13 The imperfect fungi which are decomposers of litter and help in mineral cycling belong to [AIPMT 2015]

- (1) Ascomycetes (2) Phycomycetes
 (3) Basidiomycetes (4) Deuteromycetes

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Q.14 Which one of the following matches is correct?

[AIPMT 2015 (Cancelled)]

- (1) *Mucor*
 – Reproduction by conjugation – Ascomycetes
 (2) *Agaricus*
 – Parasitic fungus – Basidiomycetes
 (3) *Phytophthora*
 – Aseptate mycelium – Basidiomycetes
 (4) *Alternaria*
 – Sexual reproduction absent – Deuteromycetes

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Q.15 Which one of the following fungi contains hallucinogens? [AIPMT 2014]

- (1) *Morchella esculenta* (2) *Neurospora* sp.
 (3) *Amanita muscaria* (4) *Ustilago* sp.

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Q.16 Which one of the following is true for fungi?

[NEET 2013 (Karnataka)]

- (1) They lack a rigid cell wall.
 (2) They are heterotrophs.
 (3) They lack nuclear membrane.
 (4) They are phagotrophs.

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Q.17 The pathogen *Microsporum* responsible for ringworm disease in humans belongs to the same kingdom of organisms as that of

[AIPMT 2011 (Mains)]

- (1) *Taenia*, a tapeworm
 (2) *Wuchereria*, a filarial worm
 (3) *Rhizopus*, a mould
 (4) *Ascaris*, a round worm.

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Q.18 Which one of the following is incorrectly matched?

[AIPMT 2011 (Prelims)]

- (1) Root pressure – guttation
 (2) *Puccinia* – smut
 (3) Root – exarch protoxylem
 (4) *Cassia* – imbricate aestivation

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full solution



Q.19 Black (stem) rust of wheat is caused by
[AIPMT 2010 (Mains)]

- (1) *Alternaria solani* (2) *Ustilago nuda*
(3) *Puccinia graminis* (4) *Xanthomonas oryzae*



Q.20 Which one is the wrong pairing for the disease and its causal organism?
[AIPMT 2009]

- (1) Black rust of wheat – *Puccinia graminis*
(2) Loose smut of wheat – *Ustilago nuda*
(3) Root knot of vegetables – *Meloidogyne* sp.
(4) Late blight of potato – *Alternaria solani*



Q.21 Cellulose is the major component of cell walls of
[AIPMT 2008]

- (1) *Pseudomonas* (2) *Saccharomyces*
(3) *Pythium* (4) *Xanthomonas*



Q.22 Which pair of the following belongs to basidiomycetes?
[AIPMT 2007]

- (1) Puffballs and *Claviceps*
(2) *Peziza* and stinkhorns
(3) *Morchella* and mushrooms
(4) Bird's nest fungi and puffballs



Q.23 Which of the following environmental conditions are essential for optimum growth of *Mucor* on a piece of bread?

- A. Temperature of about 25 °C
B. Temperature of about 5 °C
C. Relative humidity of about 5%
D. Relative humidity of about 95%
E. A shady place
F. A brightly illuminated place

Choose the answer from the following options.

[AIPMT 2006]

- (1) B, C and F only (2) A, C and E only
(3) A, D and E only (4) B, D and E only



Q.24 Which fungal disease spreads by seed and flowers?
[AIPMT 2002]

- (1) Loose smut of wheat
(2) Corn smut
(3) Covered smut of barley
(4) Soft rot of potato



Q.25 Which of the following secretes toxins during storage conditions of crop plants?
[AIPMT 2002]

- (1) *Aspergillus* (2) *Penicillium*
(3) *Fusarium* (4) *Colletotrichum*



Q.26 Adhesive pad of fungi penetrates the host with the help of
[AIPMT 2001]

- (1) mechanical pressure and enzymes
(2) hooks and suckers
(3) softening by enzymes
(4) only by mechanical pressure



Q.27 Black rust of wheat is caused by
[AIPMT 2000]

- (1) *Puccinia* (2) *Ustilago*
(3) *Albugo* (4) *Phytophthora*



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	2	1	2	2	3	2	4	4	3	2	4
Ques.	12	13	14	15	16	17	18	19	20	21	22
Ans.	1	4	4	3	2	3	2	3	4	3	4
Ques.	23	24	25	26	27						
Ans.	3	1	1	1	1						