# STATE PMT EXAMS EXERCISE

**1.** Zygote of ***Sporogyra*** produces four haploid nuclei, in which : **[UTTRANCHAL PMT 2004]**
(1) One functional (2) Resolution
(3) Magnification (4) resolving power

**2.** Branched conidiophores are present in : **[UTTRANCHAL PMT 2005]**
(1) Rhizopus (2) P enicillium
(3) Ustilago (4) Aspergrillus

**3.** Sexual reproduction is Spirogyra is morphologically characterized by : **[C.G. PMT-2004]**
(1) Oogamy
(2) Anisogamy
(3) Isogamy
(4) Isogamy and oogamy both

**4.** Zygospores are formed in ? **[C.G. PMT 2004]**
(1) Puccinia (2) Penicillium
(3) Alterneria (4) Mucor

**5.** Common bread mould is **[C.G. PMT 2006]**
(1) Yeast (2) Mucor
(3) Bacteria (4) Virus

**6.** Mycorrhiza is a : **[C.G. PMT 2006]**
(1) Parasitic relation between fungus and algae
(2) Symbiotic relation between fungus and algae
(3) Symbiotic relation between fungus and roots
(4) Parasitic relations between fungus and roots.

**7.** Earliest settelers on barrenland and rock are : **[C.G. PMT 2006]**
(1) Mosses (2) Lichcens
(3) Fern (4) None

**8.** In Ulothrix meiosis occurs in : **[JHARKHAND 2005]**
(1) Gamete (2) Zygospore
(3) Zoospore (4) Thallus

**9.** Lichens are : **[JHARKHAND 2005]**
(1) Sporophyte
(2) Parasite
(3) Symbionts
(4) Chloromycitin

**10.** VAM is useful for :**[JHARKHAND 2004]**
(1) Phosphate nutrition
(2) Breaking of dormany
(3) decrease in diseases
(4) Retarding flowering

**11.** Pigments present in chloroplast of Ulothrix : **[JHARKAND -2003]**
(1) chl-a, chl-b and fuxoxanfhin
(2) chl-a, chl-b, chl- c-phycocyanin, c-phycoerythrin
(3) chl-am chl-b, $\beta$-carotene, xanthophyll
(4) chl-a, chl-b r-phcocyanine, r-phycoerythrin

**12.** Which of the following algae shows physiological anisogamy ? **[JHARKHAND-2002]**
(1) Spirogyra (2) Ulothrix
(3) Volvox (4) All of these

**13.** Yeast is different from penicillium and Rhizopus in being **[JHARKHAND 2002]**
(1) acellular
(2) Unicellular
(3) Having unseptate hyphae
(4) multicellular

**14.** Which of the following is known as pond silk ? **[BIHAR 2006]**
(1) Spirogyra
(2) Ulothrix
(3) Nostoc
(4) Anabaena

**15.** Chloroplasts of Spirogyra have : **[BIHAR 2006]**
(1) Spiral mairgin
(2) Smooth or wavy margin
(3) Smooth margin
(4) Nong of the above

**16.** The symbtotic association of fungi and algae is called **[UP CPMT 2001]**
(1) Lichen
(2) Mycorrhiza
(3) Rhizome
(4) Endomycorrhiza

**17.** Zygote of Spirogyra produces four haploid nuclei in which **[UP CPMT 2001]**
(1) One is functional
(2) Two are functional
(3)Three are functional
(4) All four are functional

**18.** A place was rocky and barren but now there is a green forest, the sequence of origin is **[UP CPMT 2002]**
(1) Lichen, moss, herbs, shurbs
(2) Moss, lichen, herbs, shurbs
(3) Lichen, moss, shrubs, herbs
(4) Shurbs, herbs, moss lichen

**19.** Mycorrhiza helps in **[UP CPMT 2003]**
(1) Nutrition uptaking
(2) Food manufacturing
(3) Desease resistance
(4) Disease prevention

**20.** Mycorrhizia promotes plant growth by : **[UP CPMT 2004]**
(1) Absorbing inorganic ions form oil
(2) Helping the plant in utilizing atmospheric nitrogen
(3) Protecting the plant from infection
(4) Serving as plant growth regulator

**21.** Lichens show **[UP CPMT 2005]**
(1) Symbiosis (2) Commensalism
(3) Parasitism (4) Cooperation

**22.** Mycorrhiza in higher plants helps in **[UP CPMT 2006]**
(1) Absorption of phosphates and water from
(2) $N_2$ fixation
(3) Water supply
(4) Resistance against disease

**23.** In which 'torula conditioin' is found ? **[MP PMT 2001]**
(1) Spirogyra (2) Mucor
(3) Riccia (4) Ulothrix

**24.** They zygospore in spirogyra is **[MP PMT 2001]**
(1) One layered (2) Two-layered
(3) Three-layered (4) Multi-layered

**25.** Sexual reproduction is spirogyra is : **[MP PMT 2001]**
(1) Isogamous
(2) Anisogamous
(3) Physiological anisogamous
(4) Oogamous

**26.** Cell wall of Mucor is made up of : **[MP PMT 2001]**
(1) Chitin (2) Cellulose
(3) Pectin (4) Mucilage

**27.** Which one of the following shows haplontic life cycle ? **[MP PMT 2002]**
(1) Ulothrix (2) Funaria
(3) Selaginella (4) Pinus

**28.** Sporangiospores of Mucor are : **[MP PMT 2002]**
(1) Haploid (2) Diploid
(3) Triploid (4) Polyploid

**29.** In Ulotrhix, meiosis takes place during : **[MP PMT 2002]**
(1) Zoo spore formation
(2) Gamete formation
(3) Zygote germination
(4) Zoospore germination

**30.** Mucor shows **[MP PMT 2002]**
(1) Isogamy (2) Anisogamy
(3) Oogamy (4) None of the above

**31.** The life cycle of Spirogyra is : **[MP PMT 2003]**
(1) Haplontic (2) Diplo-haplontic
(3) Haplo-diplontic (4) Diplontic

**STATE PMT EXAMS EXERCISE** **ANSWER KEY**

| Que. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ans.** | **1** | **2** | **3** | **4** | **2** | **3** | **2** | **2** | **3** | **1** | **3** | **1** | **2** | **1** | **2** | **1** | **1** |
| Que. | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| **Ans.** | **1** | **1** | **1** | **1** | **1** | **2** | **3** | **3** | **1** | **1** | **1** | **3** | **1** | **1** | | | |