

SABANG SAJANIKANTA MAHAVIDYALAYA
INTERMEDIATE SEMESTER OF PG EXAMINATIONS 2020

Subject: BOTANY
Semester - II
Paper – 202
Date- 21.12.2020
Half: 2nd Half

Full Marks: 20

Time: 2 Hours

Only one question should be answer out of following question:

UNIT-I
(PALEOBOTANY)

Q1. What is amber? Define chemical evolution. Briefly discuss the plausible of the origin of organic molecule in prebiotic earth. Describe to mega floristic of Raniganj formation.

Q2. What is mean by form genus? Briefly discuss the type of fossil. What is lithostratigraphy? Name two characteristics mega floral remain form hartala formation.

Q3. What is mean by principle of superposition of rocks? Write the short notes of radiometric dating. What is palaeomagnetism? What do you mean by peel technique? Mention the period of Paleozoic era.

Q4. What is Kakabekia umbellata? Write the two fold classification of Indian Gondwana flora. What do you mean by authigenic preservation? What is index fossil?

Q5. Write the outline of geological time scale. Define half life of a radio element. Write the limitations of radiometric method.

Q6. What is coal ball? What is stratigraphy? Write the principles of correlation stratigraphy. Write the factors of fossilization process. Name to female fossilization known from Indian lower Gondwana.

UNIT-II

(PALYNOLOGY & PLANT REPRODUCTIVE BIOLOGY)

Q1. Write the objective of melissopalynology. Illustrate the different types of apertures found in spores or pollen grain. Advantage and disadvantage of cross pollination. What is threshold number?

Q2. What is sporopollenin? Discuss briefly the role of pollen grain in criminal investigation. What is hay fever? Write the Importance of paleopalynology.

Q3. What are the differences between spore and pollen grain? What is Amb? Identification of spore or pollen grain as allergen. What do you mean by radially symmetrical isopolar type of pollen grain?

Q4. What is protogyny? Write the material of extra exinous wall of pollen grain. What is proplis? What is apocalpium?

Q5. Mention Genus where pollen grain remain united in tetrad. What do you mean by Leasura? Write the short notes of NPC classification. What is polyad? Where does it occur? Write four species of honey bee.

Q6. What is chiropterophily? Write the analysis of sporoderm structure. How melissopalynological analysis is done? What is Ubbelohde body? Give two examples of allergenic pollen of West Bengal.