

DR KANAILAL BHATTACHARYYA COLLEGE

B.SC. HONOURS SEMESTER-2 INTERNAL ASSESSMENT (JUNE 2022)

SUBJECT- PHYSIOLOGY HONOURS

PAPER- CC3

(CELL SIGNALLING, NERVE AND MUSCLE)

FM-10

TIME- 30 MINS

ANSWER ANY 10 FROM THE FOLLOWING:

10 X 1= 10

1. What do you mean by compound action potential?
2. Define rheobase.
3. State any two functions of astrocyte.
4. What is a GPCR?
5. What are co-transmitters? Give one example.
6. What is EPP?
7. Define isometric muscle contraction.
8. Name the structural components of myosin.
9. What is NGF? Give example.
10. What are the three MAP kinase pathways in mammalian cell?
11. What do you mean by absolute refractory period of a nerve fibre?
12. What are nebulins?
13. What is the function of adenylate cyclase in signaling?
14. Where are DHP and ryanodine receptor located?
15. Define electromyography.
16. What do you mean by denervation hypersensitivity?
17. Give example of an agonist and an antagonist muscle.
18. What are electrotonic potentials?
19. What is calmodulin?
20. State one difference between red and white muscle fibre with example.

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SUBJECT- PHYSIOLOGY HONOURS

PAPER- CC4

(NERVOUS SYSTEM)

FM-10

TIME- 30 MINS

ANSWER ANY 10 FROM THE FOLLOWING:

10 X 1= 10

1. State the difference between an ionotropic and a metabotropic receptor.
2. What is the function of Broca's area?
3. What is axon reflex?
4. Why REM sleep is called paradoxical sleep?
5. Mention one advantage and one disadvantage of using MRI.
6. What do you mean by anterograde and retrograde amnesia?
7. Deficiency of which neurotransmitter causes Parkinson's disease in human?
8. What is orexin?
9. Where does otolithic organ located?
10. What is Kluver-Bucy syndrome?
11. Name three endogenous opioid peptides.
12. What do you mean by operant conditioning?
13. What is nystagmus?
14. What is reciprocal inhibition?
15. What do you mean by allocortex and Isocortex?
16. What is perforant pathway?
17. What do you mean by decerebrate rigidity?
18. State the name of ascending nerve tracts carrying kinaesthetic sensation.
19. What are deep cerebellar nuclei? Name them.
20. What causes hypothalamic obesity?