

INTERNAL EXAMINATION (SEMESTER V), 2022

Physiology Honours (PHYA)

Date: 13/12/2022

Time: 11 am-1 pm (2 hours)

Paper-CC11 (Special Senses)

Full marks: 10

Answer any 10 from the following:

10X1=10

1. What is Argyll-Robertson Pupil?
2. State Weber-Fechner's law.
3. What is myopia? How can it be corrected?
4. What is blind spot?
5. State the Ferry-porter law and mention its significance.
6. What is tip-link?
7. Distinguish between anosmia and hyposmia.
8. What do you mean by positive after image?
9. What is conductive deafness?
10. State Steven's power law.
11. State the location and function of Muller cell in retina.
12. What is after taste? Give a suitable example.
13. What is Umami sensation?
14. What is glaucoma?
15. What are olfactory glomeruli?

Paper-CC12 (Endocrinology)

Full marks: 10

Answer any 10 from the following:

10X1=10

1. What are somatomedins?
2. What do you mean by short-loop feedback inhibition? Give one example.
3. What are the functions of gastrin?
4. Name the different zones of adrenal gland.
5. What is the cause of Cushing syndrome?
6. What is the physiological significance of peripheral conversion of thyroxine (T₄) to triiodothyronine (T₃)?
7. Why ketosis develops in diabetes mellitus?
8. What is Wolf-chaikoff effect?
9. Differentiate between acromegaly and gigantism.
10. What is pheochromocytoma?
11. What is reverse T₃?
12. Mention the differences of Type-I and Type-II diabetes mellitus.
13. Name the GI hormones secreted from stomach and ileum.
14. What is the source of parathormone?
15. Mention any one function of melatonin.

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Paper-DSE-A 1 (Biostatistics)

Full marks: 10

1. Define ordinal variable. Give example.
2. How mean median and mode are mathematically related?
3. What is standard score?
4. Write down the regression equation of Y on X.
5. What do you mean by distribution free test?
6. What is Null hypothesis?
7. Name the test used for comparing the means of more than two groups of a sample.
8. Mention one advantage and one disadvantage of using mean value.
9. What is random sampling?
10. How is the significance of 't' is determined?
11. What is kurtosis?
12. What is meant by prediction statistics?
13. What is a pie diagram?
14. What do you mean by standard error of mean?
15. What do you mean by degree of freedom?

Paper-DSE-B1 (Work, Exercise and Sports Physiology)

Full marks: 10

1. What do you understand by 'steady state' of exercise?
2. What do you mean by lactate threshold?
3. What are positive and negative works?
4. Define Ponderal Index.
5. What are the benefits of warm up?
6. What is the importance of work rest cycle?
7. What are ergogenic aids? Give example.
8. Define static work.
9. What is VO₂ max? What are the normal values of VO₂ max in sedentary adults?
10. State the modifications of the Original Harvard Step Test in Indian context.
11. What is 'Second Wind'?
12. What do you mean by 'acceptable workload'?
13. What is somatotype?
14. What do you understand by work organization?
15. What are the components of EPOC?
16. What do you mean by detraining?