

M.R.GOVERNMENT ARTS COLLEGE MANNARGUDI

DEPARTMENT OF PHYSICS

M.Sc II Year MODEL EXAMINATION MARCH 2020

ADVANCED PHYSICS P 16 PY 42

TIME: 3 Hrs

Max.Marks:75

PART A: ANSWER ALL THE QUESTIONS (10x2 =20 Marks)

1. What are the end products of a star?
2. List the importance of 21 cm line in RA.
3. Distinguish PSLV and GSLV.
4. Expand: INSAT, IRS, VSAT and METSAT.
5. What is bone conduction?
6. What are resting potentials?
7. Distinguish CS and PCS.
8. What is information security?
9. What is Ethernet Bridge?
10. What are LEO and MEO satellite orbits.

PART B: ANSWER ALL THE QUESTIONS (5x5 =25 Marks)

11. Enumerate the future prospects of Universe.(OR)
Discuss RA in India.
12. Describe the use of INSAT in broadcasting services.(OR)
Discuss the achievements of ISRO.
13. Explain the working of principle and uses EEG.(OR)
Write a note on Cochlear implants.
14. Describe GSM infrastructure.(OR)
Explain FAX.
15. Explain the process involved in Paging.(OR)
Explain wireless packet data services.

PART C: ANSWER ANY THREE QUESTIONS (3x10 =30 Marks)

16. Explain major discoveries in RA.
17. Explain the role of IRS in the planning.
18. Explain i) Electrophysiology and ii) Haemodialysis.
19. Explain IMTS and AMPS control systems.
20. Explain communication satellites.

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PART A: ANSWER ALL THE QUESTIONS (10x2 =20 Marks)

1. What are pulsars?
2. What do you mean expanding Universe?
3. What are meteorological satellites?
4. List the advantages of remote sensing satellites.
5. What is masking?
6. Mention few cardiac and blood related devices.
7. What are IMTS and AMPS?
8. List the advantages of personal communication system.
9. What is Bluetooth?
10. List the satellite orbits.

PART B: ANSWER ALL THE QUESTIONS (5x5 =25 Marks)

11. Write a note on Expanding Universe.(OR)
Explain synchrotron radiation.
12. Describe launching program.(OR)
What is GIS? Explain its applications.
13. Explain the working of pacemakers .(OR)
Describe Haemodialysis.
14. Compare modulation schemes.(OR)
Explain CDPD.
15. Write a note on communication satellites.(OR)
Explain IR modems.

PART C: ANSWER ANY THREE QUESTIONS (3x10 =30 Marks)

16. Explain the life cycle of stars.
17. Explain methodological issues in cost beneficial analysis of space program.
18. Explain any two hearing aids and Cochlear implants.
19. Elaborate cell site equipments.
20. Explain the applications of wireless services in globe.