PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(First Semester)

Branch – COMPUTER SCIENCE

META-VERSE NEAR FUTURE TECHNOLOGIES

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1   _____refers to a shared, persistent, three-dimensional virtual realm where people interact with objects, the environment and each other through digital representations of themselves or avatars
   (i)   Metaverse   (ii) Blockchain
   (iii) Bitcoin   (iv) AI

2   Blockchain is a peer-to-peer _____ distributed ledger technology that makes the records of any digital asset transparent and unchangeable
   (i)   Decentralized   (ii) Demanding
   (iii) Secure   (iv) Popular

3   Which one of the senses does not applied in virtual reality
   (i)   taste   (ii) vision
   (iii) sound   (iv) touch

4   Why are the NFTs bad for the environment?
   (i)   Carbon emission is increasing day by day
   (ii) they consume enormous amount of electricity
   (iii) they add huge amount of carbon to the environment
   (iv) all of the above

5   What equipment is needed for metaverse?
   (i)   a device with a screen   (ii) input system
   (iii) a powerful enough processor   (iv) all of the above

SECTION - B (15 Marks)
Answer ALL Questions
ALL questions carry EQUAL marks   (5 x 3 = 15)

6 a   Why do we need Metaverse Technologies? Write a brief.
                  OR
   b   What is MR? Write a short note.

7 a   What is Blockchain? Give a brief.
                  OR
   b   Write down the differences between NFT and Crypto currency.

8 a   What do you know about VR? and its applications.
                  OR
   b   How VR, AR, and XR are different from each other?

9 a   Write the relationship between Twitter and NFT.
                  OR
   b   What is Opensea? Write a note.

10 a   Give one example use case for learning in metaverse.
                  OR
   b   Write a special note on Personalised Avatars.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 6 = 30)

11 a Give a detailed note on Seven Layers of metaverse.

OR

b How the metaverse technologies will be impacting the Financial and Economics of the world.

12 a Why do we need Blockchain technology? Justify your answers with suitable examples.

OR

b Give a explorative study on NFT and its applications in our daily life.

13 a Explain the very functioning of AR technology with examples.

OR

b What do you know about Digital Identities and Metaverse? Give a detailed note.

14 a How do you buy and sell NFT using Open sea platform? Explain.

OR

b How do you create an NFT? Explain the purpose, procedure and process.

15 a How Gaming and Metaverse related to each other? Explain with suitable examples.

OR

b Explain the following Use cases in Metaverse:
   i. Social Interactions   ii. Travel

Z-Z-Z   END