

TIME ALLOWED:

THREE HOURS

FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR **RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2013**

GENERAL KNOWLEDGE, PAPER-I

Student Bounts, com (EVERYDAY SCIENCE) (PART-I MCQs) 80 MINUTES MAXIMUM MARA **100 MINUTES MAXIMUM MARKS**

NOTE:(i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back after 80 minutes

(ii) Overwriting/cutting of the options/answers will not be given credit.

(PART-II)

| | | <u>PART-I ((</u> | MCQS)(COMPULSO | <u>RY)</u> | | | |
|------|---|--|---|-------------------------|------------------------|--|--|
| Q.1. | (i) Select the best opt | ion/answer and fill in | the appropriate Circle (| on the OMR Answ | ver Sheet. (50x1=50 | | |
| • | (ii) Answers given an | ywhere, other than O | MR Answer Sheet, shal | l not be considered. | | | |
| 1. | | ept " All motion is relativ | | | | | |
| 2. | | | (c) Galileo Galilie entist Abu Usman Aljahiz wa | | | | |
| 3. | (a) Botany Albatros is: | (b) Zoology | (c) Astronomy | (d) None of these | | | |
| | (a) A sea bird | (b) A beetle | (c) A fruit | (d) None of these | | | |
| 4. | • | a depth of meters | | (I) NI | | | |
| 5. | (a) 100 The biggest planet in ou | (b) 80 | (c) 120 | (d) None of these | | | |
| 6. | (a) Venus The biggest species of t | (b) Pluto | (c) Jupiter | (d) None of these | | | |
| | (a) Tiger | (b) Lion | (c) Leopard | (d) None of these | | | |
| 7. | Which group of animal | s has heterogametic femal | | | | | |
| 8. | (a) Domestic fowl The dominant phase of | (b) Earthworm life cycle in these organis | (c) Rabbit ms is haploid: | (d) None of these | | | |
| | (a) Mosses | (b) Bacteria | (c) Protozoa | (d) None of these | | | |
| 9. | The atmosphere of mod | | 200/ II donor (a) 60 | 10/ Ni 400/ in | (4) N (4) | | |
| 10. | The chemical name of c | | ogen, 20% Hydrogen (c) 60 | % Mitrogen, 40% mert g | gases (a) None of thes | | |
| 11. | (a) Silicon Dioxide | (b) Stannous oxide and ar year can lack a new n | (c) Aluminium Oxide noon? | (d) None of these | | | |
| | (a) December | (b) February | (c) May | (d) None of these | | | |
| 12. | Deuterium differs from | | | | | | |
| | (a) Different atomic number but same atomic weight(b) Different atomic number and different atomic weight(c) Same atomic number but different atomic weight(d) None of these | | | | | | |
| 13. | | a water soluble vitamin: | gnt (a) None of these | | | | |
| 10. | (a) Vitamin A | (b) Vitamin K | (c) Vitamin D | (d) None of these | | | |
| 14. | Coulomb is the scientific | , , | (+) | (4) - 10-10 00 10-10 | | | |
| | (a) Velocity | (b) Temperature | (c) Mass | (d) None of these | | | |
| 15. | Equator passes through | | | | | | |
| 16. | (a) Saudi Arabia | (b) Italy is secreted by one of the fo | (c) Japan | (d) None of these | | | |
| 10. | (a) Pituitary | (b) Pancreas | (c) Thyroid | (d) None of these | | | |
| 17. | Basha Dam is to be con | ` , | (c) Thyroid | (u) None of these | | | |
| 18. | (a) River Sutlaj UV light falls in the cat | (b) River Jhelum egory of: | (c) River Chenab | (d) None of these | | | |
| 19. | | (b) Non-Ionizing Radi | ations (c) Visible Light najor plates of various sizes: | (d) None of these | | | |
| 20. | (a) Mesosphere One of these scientists | (b) Stratosphere formulated basic laws of C | • | (d) None of these | | | |
| 01 | (a) Pythagorus | (b) Archimedes | (c) Aristotle | (d) None of these | | | |
| 21. | (a) Amino acids | (b) Nucleic acids | ne following biological mole (c) Carbohydrates | (d) None of these | | | |
| 22. | * * | st to prove that planets mo | • | (u) None of these | | | |
| 22. | (a) Archimedes | (b) Galileo Galilei | (c) John Kepler | (d) None of these | | | |
| 23. | * * | different kinds o | | (a) Frome of these | | | |
| -0. | (a) Three | (b) Two | (c) Four | (d) None of these | | | |
| 24. | * * | nuclear fuel in one of the | , , | (1) | | | |
| | (a) U^{235} | (b) U^{237} | (c) U^{238} | (d) None of these | | | |
| 25. | The Alpha particles are | compact clusters of: | | | | | |
| | | | Two Neutrons (c) Three Prot | tons and Three Neutrons | (d) None of these | | |
| 26. | The Beta particles are f | • | | | | | |
| | (a) Protons | (b) Neutrons | (c) Electrons | (d) None of these | | | |
| 27. | • | • | m energy from atomic reactor | | . | | |
| | (a) France | (b) USA | (c) UK | (d) None of these | Page 1 of 2 | | |

| EVER | <u>YDAY SCIENCE GI</u> | ENERAL KNOWLE | <u>DGE, PAPER-I</u> | 130 | | | | |
|---|--|---|---|---|--------------|--|--|--|
| 28. | The unit to measure the (a) Dobson | quantity of Ozone in the (b) Dalton | e atmosphere is: (c) Coulomb | (d) None of these(d) None of these(d) None of these(d) None of these | | | | |
| 29. | The severity of 2005 ear (a) 6.9 | ` / | ` ' | (d) None of these | | | | |
| 30. | Geiger-Muller Counter | is used to detect: | . , | (d) None of these | 138 | | | |
| 31. | (a) Protons Vacuum tubes have been | (b) Neutrons n replaced by: | (c) Photons | (d) None of these | 2.00 | | | |
| 32. | (a) Conductors Dacron is: | (b) Diodes | (c) Transistors | (d) None of these | 1 | | | |
| 33. | (a) Polyethylene It is a secondary plant m | (b) Epoxy | (c) Polyamide | (d) None of these | ` | | | |
| 55. | (a) Nitrogen | (b) Phosphorus | (c) Sulphur | (d) None of these | | | | |
| 34. | • | • | the occurrence of disease in hu | | | | | |
| | (a) Immunology | (b) Parasitology | (c) Epidemiology | (d) None of these | | | | |
| 35. | The number of electrons of a neutral atom is automatically known if one knows the: | | | | | | | |
| | (a) Atomic number | (b) Atomic weight | (c) Number of orbitals | (d) None of these | | | | |
| 36. | Which of the following | is not an enzyme? | | | | | | |
| | (a) Chymotrypsin | (b) Secretin | (c) Pepsin | (d) None of these | | | | |
| 37. | It is impossible for a typ | | | | | | | |
| | (a) AB ⁻ | (b) O ⁻ | $(\mathbf{c}) \mathbf{O}^{+}$ | (d) None of these | | | | |
| 38. | Serum is blood plasma | | () () 1 1 1 1 | (DN Cd | | | | |
| 20 | (a) Calcium ions | (b) Clotting proteins | (c) Globulins | (d) None of these | | | | |
| 39. | The autonomic nervous (a) Cardiac muscles | (b) Skeletal muscles | (c) Smooth muscles | (d) None of these | | | | |
| 40. | | , , | t in the defect of the eye move | | | | | |
| 40. | (a) Optic | (b) Trigeminal | (c) Abducens | (d) None of these | | | | |
| 41. | Which of these is not a i | • | | (2) | | | | |
| | (a) Thoracic | (b) Pelvic | (c) Lumbar | (d) None of these | | | | |
| 42. | The shape of the externa (a) Elastic cartilage | al ear is due to: (b) Fibrocartilage | (c) Articular cartilage | (d) None of these | | | | |
| 43. | The external surface of | | | | | | | |
| | (a) Mucosa | (b) Serosa | (c) Parietal peritoneum | (d) None of these | | | | |
| 44. | Which of the following | | | | | | | |
| | (a) Integumentary | (b) Muscular | (c) Epithelial | (d) None of these | | | | |
| 45. | Which of the following does not vary predictably with the depth of the aquatic environment? (a) Salinity (b) Temperature (c) Penetration by sunlight (d) None of these | | | | | | | |
| 16 | (a) Salinity (b) Temperature (c) Penetration by sunlight (d) None of these The quantity of available nutrients from the lower levels of the energy pyramids to the higher ones. | | | | | | | |
| 46. | (a) Increases | (b) Decreases | (c) Remains stable | (d) None of these | | | | |
| 47. | Which of the following | , , | , , | (u) None of these | | | | |
| | (a) Hydrosphere | (b) Lithosphere | (c) Stratosphere | (d) None of these | | | | |
| 48. | Vaccination is synonym | - | munity. | | | | | |
| (a) Natural active (b) Artificial passive (c) Artificial active (d) None of these | | | | | | | | |
| 49. | | | ive to a drug, this is an exampl | | | | | |
| | (a) Superinfection | (b) Drug resistance | (c) Allergy | (d) None of these | | | | |
| 50. | What is the smallest uni (a) Chromosomes | t of heredity? (b) Gene | (c) Nucleotide | (d) None of these | | | | |
| | | | PART-II | | | | | |
| NOTE | (I) D (TT ! . 1 | | | | | | | |
| NOTE: | * * | attempted on the sepa | | | | | | |
| | | | | with Q. No. in the Q. Paper. | | | | |
| | | • | PART-II. ALL questions part of the attempted question | • - | | | | |
| | tv) Extra attempt of | any question or any p | bart of the attempted question | ii will not be considered. | | | | |
| Q.No.2. | | ter in Pakistan is caused e of "The Earth Hour M | by the follies of humans ". Co ovement". | mment. | (05) (05) | | | |
| Q.No.3. | (a) Porifera is an ancient group of animals from Cambrian period. What is the cause of their survival /success?(b) How heavy water differs from ordinary water and what is its use in the Atomic Reactor? | | | | | | | |
| Q.No.4. | What part do antibod | lies play in allergic react | ions? How vaccination can be | helpful in its control/ prevention? | (10) | | | |
| Q.No.5. | <u>*</u> | | | . Give examples of each one of them. | | | | |
| | (b) Why Nuclear E | nergy is being preferre | | d why are we lagging behind in t | | | | |
| | important source | | - | | (05) | | | |
| Q.No.6. | (a) What is Nanotec | hnology and what are its | uses? | | (05) | | | |
| | | | Chemotherapy and Radiotherap | y. | (05) | | | |
| Q.No.7. | Write comprehensive | e notes on: | | | | | | |
| | (a) LASER and their | r uses. (b) OPT | IC FIBRES and their importan | ce in modern telecom system. | (5 each) | | | |
| Q.No.8. | Write all that you kn | ow about Pesticides. Ho | w are they classified by agrono | omists? | (10) | | | |
| Q.No.9. | Write note on: (a |) Biotechnology | (b) Global Warming | | (5 each) | | | |

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