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ATOMIC ENERGY EDUCATION SOCIETY
Anushaktinagar, Mumbai-400 094

2016 – Internal Examination for the post of HM

Post - HM

Date- 07-11-2016

Time - I Hour 30 Minutes

Maximum Marks – 50

Instructions

1. There are 50 Multiple Choice Questions (MCQ) in this paper. Each question carries 1 mark. There will be negative marking of 0.25 per wrong answer.
2. Answer should be darkened/ marked in the OMR answer sheet only.
3. Use of any electronic gadget (e.g. calculator, mobile phone, etc.) is not permitted, in the examination hall.
4. In case a candidate has not signed the Attendance Sheet or the OMR Answer Sheet is not signed by the Invigilator, it will be dealt with as a case of unfair means.
5. On completion of the test, the candidates MUST HAND OVER THE OMR ANSWER SHEET AND QUESTION PAPER TO THE INVIGILATOR in the room/hall.
6. The candidates should ensure that the OMR answer sheet is not folded or damaged.

To be filled by the candidate

Name of the Candidate: _____

Roll Number: _____

OMR Number: _____

No of printed pages -9

Verbal and Non-verbal Intelligence (10 x 1 = 10)

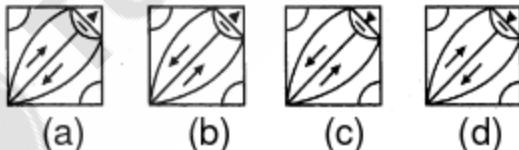
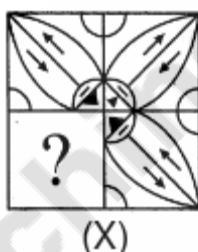
1. Which of the following series is odd?

- (a) 1, 4, 7, 10, 13, 16, 19, 22
- (b) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- (c) 1, 5, 9, 12, 15, 18, 21, 25
- (d) 1, 3, 5, 7, 9, 11, 13, 15, 17

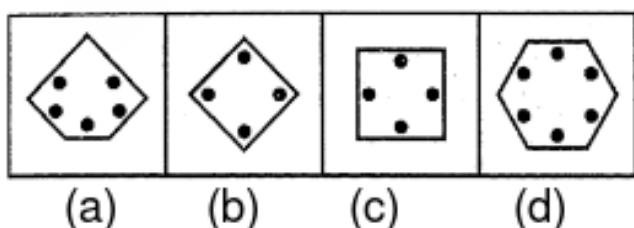
2. Which one of the given words can be combined with the following four words: Tooth, Talk, Potato, Bitter (Compound and hyphenated words or commonly used expressions are allowed)

- (a) Eat
- (b) Taste
- (c) Sweet
- (d) Mouth

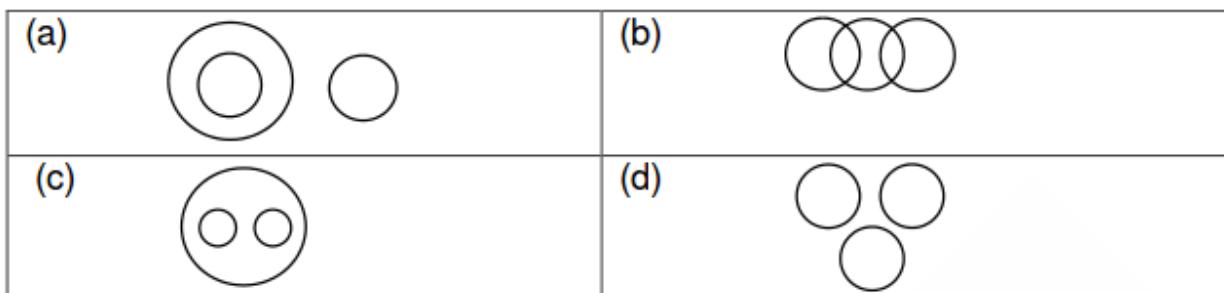
3. Which of the following, when placed in the blank space of figure (X) would complete the pattern.



4. Three of the four figures marked (a) (b) (c) and (d) are similar in a certain manner. Choose the figure which is different from the rest.



5. Which of the following diagrams indicates the best relation between Doctors, Women and Engineers?



6. Banu aunty likes 25 but not 26, 196 but not 195, and 100 but not 99. Does she prefer 63 or 64?

- (a) 64
- (b) 63
- (c) Both 63 and 64
- (d) Neither 63 nor 64

7. What number comes next in this series? (Hint: This is not a “number” puzzle) : 2, 3, 4, 6, 7, 8, 10, 11, 12, 13, 14, 16, ?

- (a) 17
- (b) 18
- (c) 19
- (d) 20

8. A science project competition took place in your school. Four students were awarded prizes.

- (I) The student who made a comet didn't come fourth and Sachin didn't get third prize
- (II) The student who grew mold was placed higher than Rizwan.
- (III) The student who built the talking robot got first prize.
- (IV) The student who grew mold was placed higher than the one who made the comet.
- (V) Neena's project tested whether or not classical music helped plants grow faster.
- (VI) Mary did not grow mold.

Which of the following is correct?

- (a) Neena's project: Tested whether or not classical music helped plants grow faster.
Mary's project: Made the comet
Rizwan's Project: Grew mold
Sachin's Project: Talking robot
- (b) Neena's project: Tested whether or not classical music helped plants grow faster.
Mary's project: Talking robot
Rizwan's Project: Made the comet
Sachin's Project: Grew mold

(c) First prize: Rizwan
Second Prize: Mary
Third prize: Neena
Fourth Prize: Sachin

(d) First prize: Mary
Second Prize: Sachin
Third prize: Neena
Fourth Prize: Rizwan

9. The day before “the day after tomorrow” is Sunday. So if Rupinder had to take her cat to the veterinary doctor *the day before* the “day before the day after tomorrow”, when was that?

(a) Friday
(b) Saturday
(c) Monday
(d) Sunday

10. The following words have something in common: CHILLY, EFFORT, ACCEPT, FLOPPY, ALMOST, KNOTTY, GHOST, ACCENT. Find out that connect and then decide which of the following words belong with the above set of words.

(a) GATHER
(b) FLINTY
(c) CHIMPS
(d) CANINE

Language and Comprehension (English) (10 x 1 = 10)

11. Which word or words explains the meaning of the following idiom: A fool’s errand

(a) A blunder
(b) A simple and easy task
(c) A gullible person
(d) An activity that has no hope of success.

12. Choose the correctly spelled word

(a) Gragarious
(b) Gragerious
(c) Gregarious
(d) Grigareous

13. Choose the word which is nearly opposite in meaning to the word: Acrimonious

(a) Legal
(b) Amicable
(c) Cursive
(d) Severe

Read the following passage and answer the questions 4 to 6

Despite the strong wilderness tradition of conservation biology, the past decade has seen a dramatic boost in the interest in urban biodiversity and its conservation, from both scientific and applied perspectives. Within any country, cultural traditions, financial resources, religious beliefs, and local environmental issues all will influence the goals of urban biodiversity conservation. Thus, to make successful choices among priorities, many local stakeholders will need to be involved. The problems of urban conservation are not insurmountable, but success requires a careful start. The first step is to answer the fundamental questions of why urban biodiversity should be conserved and what species assemblages or ecosystem functions are desirable and achievable in an urban setting. Without such an explicit starting point, progress will not be effective and limited conservation resources may be wasted.

14. Which do you think is most closely aligned with the author's stance?

- (a) The author believes that conservation of urban biodiversity is impossible to carry out in today's scenario.
- (b) The author is confident that conservation of urban biodiversity is easy and can be done effortlessly.
- (c) The author is hopeful that though conservation of urban biodiversity is difficult, it is still possible to implement.
- (d) The author is confused since the issue of urban biodiversity conservation is controversial.

15. According to the author, which of the following is indispensable for success of urban conservation ?

- (a) Having a clear and cautious beginning
- (b) to understand what species assemblages are desirable
- (c) to predict which ecosystem functions can be conserved in an urban setting.
- (d) having a strong wilderness tradition in society

16. In the context of the above passage, which of the following words CANNOT replace the word "influence"?

- (a) affect
- (b) impact
- (c) dominate
- (d) sway

17. You may have heard of the phrases "cruel kindness" or "living death". These are examples of which figures of speech?

- (a) Metaphor
- (b) Euphemism
- (c) Alliteration
- (d) Oxymoron

**18. Which of the following CANNOT be a replacement for the missing word?
Water: Snow:: Water: ?**

- (a) Drop
- (b) Rain
- (c) Sleet
- (d) Hail

19. Choose the word which is nearly opposite in meaning to the given word: Sceptic

- (a) Cryptic
- (b) Believer
- (c) Support
- (d) Eminent

20. Which of the following explains the word “retrogress”?

- (a) worsen
- (b) back in time
- (c) develop
- (d) old-fashioned

General Study (10 x 1 = 10)

21. DIET stands for

- (a) Department of Instructional Education and Training
- (b) District Institute of Educational Training
- (c) District Institute of Education and Training
- (d) Departmental Institute of Education and Teacher education

22. Choose the odd one out from the following:

- (a) Nile
- (b) Pacific
- (c) Ganga
- (d) Amazon

23. Choose the odd one out from the following: Brass, Steel, Tin, Bronze

- (a) Brass
- (b) Steel
- (c) Tin
- (d) Bronze

24. What do the following people have in common: Shri S.R. Bommai, Shri Arjun Singh, Dr. M.M. Pallam Raju and Shri P. Shiv Shankar

- (a) Ministers from the same political party
- (b) Former Ministers of MHRD
- (c) Former Chief Ministers of a State
- (d) Former Directors of NCERT

25. Study of social behavior or society, including its origins, development, organization, networks, and institutions is generally referred to as

(a) Theology
(b) Anthropology
(c) Anthology
(d) Sociology

26. The XI “Paralympic” Winter Games was held in

(a) Rio de Janeiro, Brazil
(b) Tokyo, Japan
(c) Sochi, Russia
(d) Beijing, China

27. Who among the following is NOT a Nobel laureate?

(a) Dorothy Crowfoot Hodgkin
(b) Tu Youyou
(c) Barbara McClintock
(d) Rosalind Franklin

28. Kyoto Protocol, Montreal Protocol and Agenda 21 are related to

(a) Trade routes and export-import laws
(b) Nuclear energy and supply of fuel
(c) Economic relationships
(d) Global climate change and environment

29. Which of the following is India NOT a member of?

(a) BRICS
(b) SAARC
(c) P5 of the United Nations Security Council
(d) G20

30. Which among the following have won Oscars?

(a) Bhanu Athaiya, Resul Pookutty, A.R.Rahman
(b) Mira Nair, A.R.Rahman, Ashutosh Gowarikar
(c) Satyajit Ray, Deepa Mehta, Resul Pookutty
(d) Ashutosh Gowarikar, Satyajit Ray, Bhanu Athaiya

Management and Supervision (10 x 1 = 10)

31. **The leader can be most confident that a group is functioning well when**

- (a) most participants are having fun
- (b) interpersonal and organizational conflicts occur rarely
- (c) reward system is more than adequate
- (d) the participants are interacting with each other on an open basis

32. **A school improvement committee is preparing a teacher dress code to make the teachers look more professional. In order to be inclusive and pro-diversity, the committee should NOT place restrictions on:**

- (a) open-toed shoes or chappals
- (b) athletic wear, except for physical education teachers
- (c) facial hair or head-wear
- (d) Shirts without collars

33. **The role of teacher in inquiry-based learning is of**

- (a) Instructor
- (b) Facilitator
- (c) Delegator
- (d) Formal authority

34. **An outline of the fundamental purpose of an organization is called its:**

- (a) objectives
- (b) mission
- (c) policy
- (d) vision

35. **The learning environment of project-based learning is characterized by:**

- (a) an atmosphere of inquiry and intellectual freedom
- (b) competitive task and reward structures so students will complete all tasks
- (c) a business-like atmosphere where students always know what to do
- (d) tight controls to prevent students from getting off task

36. **Which of the following set of words fill the blanks appropriately (in order):**
Underlying all the efforts of the educational leadership and management function is a vision of _____ education. Our attempts in the foundation are to _____ the quality of education through various interventions that are not programmatic but operational-strengthening in nature. Our focus is on _____ development; our attempt is to change their perspectives, attitudes and _____ which help them set their own goals for improving the system.

- (a) good, improve, teacher, aptitudes
- (b) quality, improve, people, aptitudes
- (c) quality, enhance, people, values
- (d) excellent, enhance, leader, values

37. The National Centre for School Leadership (NCSL) which has been engaged in formulating the programme design and Curriculum Framework which focuses on school leadership development, has been set up by

- (a) The Ministry of Human Resource Development (MHRD)
- (b) The National Council of Educational Research and Training (NCERT)
- (c) The National Council for Teacher Education (NCTE)
- (d) The National University for Educational Planning and Administration (NUEPA)

38. For a good leader, which of the following sets of characteristics are not essential?

- (a) a reflective practitioner, an initiator of change, a person who inspires
- (b) visionary, ability to work alone, be a good mentor
- (c) able to lead a team, critical thinking, a person who is resolute
- (d) people-centric, ability to work in a team, visionary

39. The literal and original (Greek) meaning of philosophy is

- (a) Love of wisdom
- (b) Love of truth
- (c) Love of values
- (d) Love of knowledge

40. When you are called upon to make accommodations with other units or departments working in the same organization, you are functioning as a

- (a) Leader
- (b) Communicator
- (c) Negotiator
- (d) Reporter

Language and Comprehension (Hindi) (10 x 1 = 10)

41. ज्योति, प्रभा किस शब्द के पर्यायवाची हैं?

- a) किरण
- b) कमल
- c) किताब
- d) किसान

42. निम्नलिखित में से कौन सा शब्द पुलिंग है ?

- a) पुस्तक
- b) अलमारी
- c) कलम
- d) छाता

43. ब्रजभाषा किस भाषा की उपबोली है ?
a) पूर्वी हिंदी
b) बिहारी हिंदी
c) पश्चिमी हिंदी
d) पहाड़ी हिंदी

44. निम्नलिखित वाक्य में से शुद्ध वाक्य का चयन कीजिए ?
a) उसे अनुत्तीर्ण होने का संशय है
b) उसे अनुत्तीर्ण होने की आशा है
c) उसे अनुत्तीर्ण होने का शक है
d) उसे अनुत्तीर्ण होने की आशंका है

45. आलोक का विलोम शब्द है ?
a) अज्ञात
b) अदभूत
c) अंधकार
d) रात्रि

46. कनिष्ठ शब्द में प्रयुक्त प्रत्यय कौन-सा है ?
a) इष्ठ
b) इष्ट
c) नष्ट
d) निष्ट

47. प्रख्यात शब्द में प्रयुक्त उपसर्ग कौन सा है ?
a) प्र
b) प्रख
c) आत
d) त

48. दिगंबर का संघि विच्छेद क्या है ?
a) दिक् + अंबर
b) दिग् + अंबर
c) दिक + अंबर
d) दिग + अंबर

49. निम्नलिखित में से कौन सा शुद्ध शब्द है ?
a) सपूर्ण
b) संपूर्ण
c) सर्पूर्ण
d) सम्पूर्ण

50. निम्नलिखित में से कौन सा वर्ण हिंदी वर्णमाला के 'ट' वर्ग में नहीं आता है ?
a) ठ
b) ढ
c) ण
d) घ

